

### **APPLICATION**

**FOR** 

ANNUAL REVENUE REQUIREMENT (ARR)

&

TARIFF PETITION FOR

FY 2020-21

PART - A

Submitted by: Department of Hydro Power Development-2020

#### GENERAL HEADINGS OF PROCEEDINGS

### BEFORE THE ARUNACHAL PRADESH STATE ELECTRICITY REGULATORY COMMISSION (APSERC), NAHARLAGUN

|                   | Filing No  |
|-------------------|--|
|                   | Case No  |
|                   |  |
| IN THE MATTER OF: | APPLICATION FOR APPROVAL OF ANNUAL REVENUE REQUIREMENT AND TARIFF PETITION OF HYDRO ELECTRIC STATIONS, DEPARTMENT OF HYDRO POWER DEVELOPMENT, ARUNACHAL PRADESH FOR THE FINANCIAL YEAR 2020-21 IN ACCORDANCE WITH THE APSERC (TERMS & CONDITIONS FOR TARIFF DETERMINATION FROM RENEWABLE ENERGY SOURCES) REGULATIONS, 2018 |
| AND               |  |
| IN THE MATTER OF: | DEPARTMENT OF HYDRO POWER DEVELOPMENT, ARUNACHAL PRADESH (HEREINAFTER REFERRED TO AS DHPD), JAL VIDYUT BHAWAN, ITANAGAR (NEAR INDIRA GANDHI PARK, ARUNACHAL PRADESH).  |
|                   | PETITIONER   |

#### **AFFIDAVIT**

## BEFORE HON'BLE ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF ARUNACHAL PRADESH

| FILE No:  |
|---|
| CASE No:  |
| Petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2020-21for The State of Arunachal Pradesh under Sections 61, 62 and 64 of The Electricity Act 2003 |
|   |
| Department of Hydro Power Development, Jal Vidyut Bhawan,   |
| Itanagar, Arunachal Pradesh   |
| Petitioner  |
| son of(aged years), (occupation) at (), the deponent named above do tate on oath as under:-   |
| of the Department of Hydro Power Arunachal Pradesh, and is acquainted with the facts deposed to below.  |
|   |

2. I, the deponent named above do hereby verify that the contents of the accompanying petition are based on the records of Department of Hydro Power Development, Government of Arunachal Pradesh maintained in the ordinary course of business and believed by them to be true and I believe that no part of it is false and no material has been concealed there from.

| Details of enclosures | Details | of en | closur | es: |
|-----------------------|---------|-------|--------|-----|
|-----------------------|---------|-------|--------|-----|

- a) Proposal for Aggregate Revenue Requirement ("ARR") for the Financial Year 2020-21for Determination of Tariff.
- b) Annexures-
- c) Petition Fee Rs.5,00,000/-(Rupees Five Lacs only), vide DD No.

dated

Department of Hydro Power Development, Govt. of Arunachal Pradesh.

**Petitioner** 

Place: Itanagar

Dated: , 2020

I, \_\_\_\_\_ Advocate, Itanagar, do hereby declare that the person making this affidavit is known to me through the perusal of records and I am satisfied that he is the same person alleging to be deponent himself.

#### **Advocate**

Solemnly affirmed before me on this ........ day of ......., 2020 at ...... a.m./p.m. by the deponent who has been identified by the aforesaid Advocate. I have satisfied myself by examining the deponent that he understood the contents of the affidavit which has been read over and explained to him. He has also been explained about section 193 of Indian Penal Code that whoever intentionally gives false evidence in any of the proceedings of the Commission or fabricates evidence for purpose of being used in any of the proceedings shall be liable for punishment as per law.

| SL.<br>NO. | TABLE OF CONTENT                                   | Page No. |
|------------|--|----------|
| 1          | BACKGROUND   | 1        |
| 1. a)      | Installed Capacity - Hydro Electric Power Stations | 1        |
| 2          | Energy Sales within the State to Power Department  | 6        |
| 2. A)      | Determination of Tariff for the HEP                | 10       |
| a)         | Capital Cost                                       | 11       |
| b)         | Design Energy                                      | 14       |
| c)         | Interest on Loan Capital                           | 18       |
| d)         | Depreciation                                       | 19       |
| e)         | Return on Equity (ROE)                             | 20       |
| f)         | Operation & Maintenance Expenses (O&M)             | 21       |
| g)         | Interest on Working Capital                        | 22       |
| 3          | Annual Fixed Charges (AFC)                         | 25       |
| 3. a)      | Tariff   | 27       |
| 4.         | Levellised Tariff for Namchik - II MHS             | 29       |
| 4. 1.      | General  | 29       |
| 4. 2.      | Capital Cost - Commission Analysis                 | 29       |
| 4. 3.      | Debt-equity Ratio                                  | 30       |
| 4. 4.      | Return on Equity                                   | 30       |
| 4. 5.      | Interest on Loan Capital                           | 31       |
| 4. 6.      | Depreciation                                       | 31       |
| 4. 7.      | O&M Expenses                                       | 31       |
| 4. 8.      | Interest on Working Capital                        | 32       |
| 4. 9.      | Capacity Utilisation Factor                        | 33       |

| 4.10. | Auxiliary Power Consumption                        |    |
|-------|--|----|
| 4.11. | Levelised Tariff Proposed for the Namchik - II MHS | 33 |
|       | Prayer   | 34 |
|       | Annexures  |    |

| SL. |   |          |
|-----|---|----------|
| NO. | LIST OF TABLES  | Page No. |
| 1   | Details of Hydro Electric Power Station   | 2 - 5    |
| 2   | Performance during 2018-19  | 6 - 9    |
| 3   | The assumptions considered for the HEPs given below                                       | 11 - 12  |
| 4   | Capital Cost - Projects Commissioned upto 31.03.2017                                      | 13       |
| 4.1 | Capital Cost : Projects Commissioned in FY 2018-19  | 14       |
| 4.2 | Capital Cost : Projects Commissioned in FY 2019-20  | 14       |
| 5   | Design Energy   | 14 - 18  |
| 6   | Depreciation - Projects Commissioned upto 31.03.2017                                      | 19       |
| 6.1 | Depreciation - Projects Commissioned in 2018-19   | 19       |
| 6.2 | Depreciation - Projects Commissioned in 2019-20   | 20       |
| 7   | Return on Equity (ROE) - Projects Commissioned upto 31.03.2017                            | 20       |
| 7.1 | Return on Equity (ROE) - Projects Commissioned in 2018-19                                 | 20       |
| 7.2 | Return on Equity (ROE) - Projects Commissioned in 2019-20                                 | 21       |
| 8   | O&M Expenses - Projects Commissioned upto 31.03.2017                                      | 21       |
| 8.1 | O&M Expenses - Projects Commissioned in 2018-19   | 21       |
| 8.2 | O&M Expenses - Projects Commissioned in 2019-20   | 22       |
| 9   | Interest on Working Capital - Projects Commissioned upto 31.03.2017                       | 22       |
| 9.1 | Interest on Working Capital - Projects Commissioned in 2018-19 -<br>Mukto                 | 23       |
| 9.2 | Interest on Working Capital - Projects Commissioned in 2018-19 -<br>Payu MHS at Kolariang | 23       |
| 9.3 | Interest on Working Capital - Projects Commissioned in 2018-19 -<br>Subbang               | 24       |

| 9.4  | Interest on Working Capital - Projects Commissioned in 2019-20 -<br>Nuranang Ph - II | 24 |
|------|--|----|
| 10   | AFC - Projects Commissioned upto 31.03.2017  | 25 |
| 10.1 | AFC - Projects Commissioned in 2018-19 - Mukto                                       | 25 |
| 10.2 | AFC - Projects Commissioned in 2018-19 - Payu MHS at Kolariang                       | 26 |
| 10.3 | AFC - Projects Commissioned in 2018-19 - Subbang                                     | 26 |
| 10.4 | AFC - Projects Commissioned in 2019-20 - Nuranang Ph - II                            | 26 |
| 11   | Tariff - Projects Commissioned upto 31.03.2017                                       | 27 |
| 11.1 | Tariff - Projects Commissioned in 2018-19 - Mukto                                    | 27 |
| 11.2 | Tariff - Projects Commissioned in 2018-19 - Payu MHS at Kolariang                    | 28 |
| 11.3 | Tariff - Projects Commissioned in 2018-19 - Subbang                                  | 28 |
| 11.4 | Tariff - Projects Commissioned in 2019-20 - Nuranang Ph - II                         | 29 |
| 12   | Capital Cost : Project Commissioned in FY 2019-20                                    | 30 |

#### LIST OF ABBREVIATIONS

| A&G    | Administration & General                                  |
|--------|---|
| ARR    | Annual Revenue Requirement                                |
| CAGR   | Compound Annual Growth Rate                               |
| CD     | Contract Demand   |
| CERC   | Central Electricity Regulatory Commission                 |
| CoS    | Cost of Supply  |
| Crs    | Crore   |
| D/E    | Debt Equity   |
| EHT    | Extra High Tension  |
| ER     | Eastern Region  |
| FY     | Financial Year  |
| GFA    | Gross Fixed Assets  |
| HP     | Horse Power   |
| APSERC | Arunachal Pradesh State Electricity Regulatory Commission |
| KV     | Kilovolt  |
| KVA    | Kilo volt Amps  |
| KWh    | Kilo Watt hour  |
| LT     | Low Tension   |
| MU     | Million Units   |
| MVA    | Million volt Amps   |
| MW     | Mega Watt   |
| O&M    | Operation & Maintenance                                   |
| PLF    | Plant Load Factor   |
| MCLR   | Marginal cost of fund based Lending Rate                  |
| R&M    | Repairs and Maintenance                                   |
| RoR    | Rate of Return  |
| Rs.    | Rupees  |
| SBI    | State Bank of India                                       |
| SERC   | State Electricity Regulatory Commission                   |
| T&D    | Transmission & Distribution                               |
| DHPD   | Department of Hydro Power Development                     |



#### 1. BACKGROUND

In order to oversee, co-ordinate and monitor the development of hydro power in the State of Arunachal Pradesh, the State Govt. created a separate department namely "Department of Hydro Power Development" on 12/11/2003. It is a full-fledged department headed by a Chief Engineer. The Department is entrusted with the development of micro / mini / small hydro project, improvement of existing hydro projects including renovation & modernization works, operation and maintenance of existing hydel stations, survey & investigation of new potential sites, and construction of residential and non-residential building for the Department. The Department is foremost concentrating on the urgent need of bridging the existing demand supply gap in order to make the State self-reliant, so far as power needs of the State are concerned and to help achieve the target of all villages electrification and all household electrification.

The Department at present has to its credit 75.33 MW installed capacity. Department is operating micro / mini / small Hydro Power Stations. Department is also under taking construction of various Hydel Stations in various districts of the State which are under different stages of development. Completion of these on-going schemes shall lead to a further capacity addition. In addition to above, Department is also carrying out Survey & Investigation of new schemes with the aim of identifying more potential sites for tapping the estimated 2000 MW small hydro power potential in the State developing hydro power.

The Department has a dedicated work force of 2831 Nos. staff comprising of experienced engineers, technical staff and other supporting staff. The Department of Hydro Power Development has also been assigned the very important responsibility of acting as nodal agency for coordinating and overseeing the allotment and development of Mega Hydro Electric Projects in the State by IPPs as State's Mega & Small Hydro Power Policy. Department is looking forward to transforming the long awaited dream of the people of the State into reality that Arunachal Pradesh shall be the "FUTURE POWER HOUSE OF THE COUNTRY".

#### **INSTALLED CAPACITY**

#### a) Hydro Electric Power Stations

The Department has total installed capacity of 75.33 MW. Details of installed capacity of hydroelectric power stations of DHPD for the year 2018-19 are given here under:-



#### 1. <u>Details of Hydro Electric Power Stations</u>

|                      | 1. Details of Hydro Electric Power Stations |            |                       |                  |                          |
|----------------------|---|------------|-----------------------|------------------|--------------------------|
| SL.<br>No.           | Name of the Stations                        | Units      | Installed<br>Capacity | Firm<br>Capacity | Year of<br>Commissioning |
|                      | Western Zone (W                             | <b>(Z)</b> | (KW)                  | (KW)             |                          |
| Tawa                 | ang District                                | ,          |                       |                  |                          |
| 1                    | Chellengkang Ph-I                           | 30         | 30                    | 30               | 2004-05                  |
| 2                    | Chellengkang Ph-II                          | 30         | 30                    | 30               | 2008-09                  |
| 3                    | Shakti Nallah                               | 2 x 50     | 100                   | 50               | 2008-09                  |
| 4                    | Thimbu                                      | 2 x 50     | 100                   | 100              | 2009-10                  |
| 5                    | Khet  | 2 x 50     | 100                   | 100              | 2009-10                  |
| 6                    | Tsechu Nallah                               | 2 x 50     | 100                   | 100              | 2010-11                  |
| 7                    | Mago MHS                                    | 2x50       | 100                   | 100              | 2014-15                  |
| 8                    | Nuranang                                    | 3 x 2000   | 6000                  | 6000             | 1996-97                  |
| 9                    | Kitpi Ph-I                                  | 3 x 500    | 1500                  | 1500             | 1977-78                  |
| 10                   | Kitpi MHS Ph-II                             | 2 x 1500   | 3000                  | 3000             | 2008-09                  |
| 11                   | T. Gompa                                    | 50         | 50                    | 50               | 2001-02                  |
| 12                   | Bongleng                                    | 2 x 50     | 100                   | 100              | 2009-10                  |
| 13                   | Bramdhongchung                              | 2 x 50     | 100                   | 100              | 2008-09                  |
| 14                   | Bramdhongchung Ph-II                        | 2 x 50     | 100                   | 100              | 2010-11                  |
| 15                   | Mukto MHS                                   | 3 x 2000   | 6000                  | 6000             | 2018-19                  |
| 16                   | Nuranang Ph- II                             | 2 x 500    | 1000                  | 1000             | 2019-20                  |
| West Kameng District |   |            |                       |                  |                          |
| 17                   | Rahung                                      | 3 x 250    | 750                   | 500              | 1972-73                  |
| 18                   | Dirang                                      | 4 x 500    | 2000                  | 1500             | 1977-78                  |
| 19                   | Saktangrong                                 | 3 x 100    | 300                   | 300              | 2011-12                  |
| 20                   | Zhongdongrong                               | 2 x 500    | 1000                  | 1000             | 2016-17                  |
| 21                   | Sessa                                       | 3 x 500    | 1500                  | 1500             | 1992-93                  |
| 22                   | Rupa  | 2 x 100    | 200                   | 100              | 1997-98                  |
| 23                   | Dokumpani                                   | 30         | 30                    | 30               | 2000-01                  |
| 24                   | Domkhrong                                   | 2 x 1000   | 2000                  | 2000             | 2008-09                  |
| 25                   | Sinchung                                    | 30         | 30                    | 30               | 2008-09                  |
| 26                   | Ankaling                                    | 30         | 30                    | 30               | 2009-10                  |
| 27                   | Dikshi                                      | 30         | 30                    | 30               | 2010-11                  |
| 28                   | Khadiyabey                                  | 2 x 100    | 200                   | 200              | 2011-12                  |
| 29                   | Jigaon                                      | 2 x 50     | 100                   | 100              | 2016-17                  |
| East                 | Kameng District                             |            | T                     |                  |                          |
| 30                   | Seppa                                       | 3 x 100    | 300                   | 200              | 1980-81                  |
| 31                   | Pakke Kessang                               | 30         | 30                    | 30               | 2001-02                  |
| 32                   | Pacha MHS                                   | 2 x 1500   | 3000                  | 3000             | 2008-09                  |
| 33                   | Pakoti                                      | 2 x 50     | 100                   | 100              | 2010-11                  |



| SL.<br>No. | Name of the Stations   | Units    | Installed<br>Capacity | Firm<br>Capacity | Year of<br>Commissioning |
|------------|------------------------|----------|-----------------------|------------------|--------------------------|
| 34         | Patta Nallah           | 2 x 50   | 100                   | 100              | 2010-11                  |
| 35         | Watte Mame             | 50       | 50                    | 50               | 2010-11                  |
| 36         | Kade Nallah            | 50       | 50                    | 50               | 2010-11                  |
| Kurı       | ing Kumey District     |          | 1                     |                  |                          |
| 37         | Koye                   | 1 x 50   | 50                    | 50               | 2009-10                  |
| 38         | Paya MHS at Hiya       | 2 x 50   | 100                   | 100              | 2011-12                  |
| 39         | Kidding MHS            | 2 x 250  | 500                   | 500              | 2017-18                  |
| 40         | Dumi Dutte             | 30       | 30                    | 30               | 2017-18                  |
| 41         | Payu MHS at Koloriang  | 2 x 500  | 1000                  | 1000             | 2018-19                  |
| 42         | Patte MHS at Tali      | 30       | 30                    | 30               | 2004-05                  |
| 43         | Chambang               | 30       | 30                    | 30               | 2009-10                  |
| Low        | er Subansiri District  |          |                       |                  |                          |
| 44         | Mai Ph-I               | 4 x 500  | 2000                  | 1500             | 1977-78                  |
| 45         | Mai Ph-II              | 2 x 500  | 1000                  | 500              | 1982-83                  |
| 46         | Tago                   | 3 x 1500 | 4500                  | 3000             | 1992-93                  |
| Uppe       | er Subansiri District  |          | 1                     |                  |                          |
| 47         | Maro                   | 1 x 30   | 30                    | 30               | 2002-03                  |
| 48         | Sippi                  | 2 x 2000 | 4000                  | 4000             | 2008-09                  |
| 49         | Pinto Karo MHS         | 1 x 25   | 25                    | 25               | 2011-12                  |
| 50         | Sikin Karo             | 2 x 100  | 200                   | 200              | 2011-12                  |
| 51         | Sinyum Koro            | 2 x 50   | 100                   | 100              | 2011-12                  |
| 52         | Dulom (Daporijo)       | 4 x 100  | 400                   | 300              | 1981-82                  |
| 53         | Ayingmuri MHS          | 2 x 125  | 250                   | 250              | 2012-13                  |
| 54         | Limeking MHS           | 1 x 30   | 30                    | 30               | 2012-13                  |
| 55         | Kojin Nallah           | 2 x 50   | 100                   | 100              | 2011-12                  |
|            | Estern Zone (EZ)       | )        |                       |                  |                          |
| West       | t Siang District       |          | 1                     |                  |                          |
| 56         | Pagi (Basar)           | 2 x 50   | 100                   | 50               | 1972-73                  |
| 57         | Along                  | 3 x 100  | 300                   | 300              | 1975-76                  |
| 58         | Ego-Echi (Dali)        | 4 x 100  | 400                   | 300              | 1987-88                  |
| 59         | Mechuka                | 6 x 25   | 150                   | 150              | 2015-16                  |
| 60         | Yomcha                 | 50       | 50                    | 50               | 2001-02                  |
| 61         | Beye                   | 30       | 30                    | 30               | 2004-05                  |
| 62         | Kambang                | 3 x 2000 | 6000                  | 6000             | 2008-09                  |
| 63         | Liromoba               | 2 x 1000 | 2000                  | 2000             | 2008-09                  |
| 64         | Yingko Sikong at Rapum | 50       | 50                    | 50               | 2009-10                  |
| 65         | Angu                   | 50       | 50                    | 50               | 2010-11                  |
| 66         | Solegomang MHS         | 50       | 50                    | 50               | 2011-12                  |



| SL.       | N 62 6                    |               | Installed | Firm     | Year of            |
|-----------|---------------------------|---------------|-----------|----------|--------------------|
| No.       | Name of the Stations      | Units         | Capacity  | Capacity | Commissioning      |
| 67        | Borung MHS                | 50            | 50        | 50       | 2011-12            |
| 68        | Sirikorang MHS            | 2x250         | 500       | 500      | 2013-14            |
|           | er Siang District         | 23230         | 300       | 300      | 2013-14            |
| 69        | Yingkiong Ph-I            | 3 x 50        | 150       | 100      | 1980-81            |
| 70        | Yingkiong Ph-II           | 2 x 100       | 200       | 100      | 1992-93            |
| 71        | Sikut/ Tuting             | 2 x 50        | 100       | 50       | 1984-85            |
| 72        | Silli at Geku             | 2 x 250       | 500       | 250      | 1994-95            |
| 73        | Sirnyuk                   | 2 x 1000      | 2000      | 1000     | 1994-93            |
| 74        | Kopu at Tuting            | 250           | 250       | 250      | 2007-08            |
| 75        | Silingri                  | 50            | 50        | 50       | 2007-08            |
| 76        | Singa                     | 30            | 30        | 30       | 2008-09            |
| 77        | Ngaming                   | 50            | 50        | 50       | 2008-09            |
| 78        | Sika                      | 15            | 15        | 15       | 2008-09            |
| 79        |                           | 5             | 5         | 5        | 2008-09            |
| 80        | Mayung                    | 2 x 250       | 500       | 500      | 2011-12            |
| 81        | Gosang Kote MHS           | 50            | 50        | 50       | 2011-12            |
| 82        |                           | 50            | 50        | 50       | 2011-12            |
| 83        | Sijen MHS at Adi pasi     | 25            | 25        | 25       | 2011-12            |
|           | Pyabung MHS               | 25            | 23        | 23       | 2011-12            |
|           | g District                | 4 x 500       | 2000      | 1500     | 1004.05            |
| 84        | Yembung                   |               |           |          | 1994-95            |
| 85<br>E 4 | Subbung                   | 2 x 1500      | 3000      | 3000     | 2018-19            |
|           | Siang District            | 2 100         | 200       | 100      | 1074.75            |
| 86        | Pasighat                  | 2 x 100       | 200       | 100      | 1974-75            |
| 87        | Silli                     | 1 x 30        | 30        | 30       | 2001-02            |
| 88        | Rina                      | 2 x 1000      | 2000      | 2000     | 2008-09            |
|           | er Dibang Valley District | 2 250         | 7.50      | 750      | 1006.07            |
| 89        | Deopani Ph-I              | 3 x 250       | 750       | 750      | 1986-87            |
| 90        | Deopani Ph-II             | 3 x 250       | 750       | 750      | 2004-05            |
| 91        | Abhapani                  | 250 + 2 x 100 | 450       | 350      | 1994-95            |
|           | ng Valley District        | 2 - 50        | 1.70      | 1.50     | 1004.07            |
| 92        | Anini/ Awapani Ph-I       | 3 x 50        | 150       | 150      | 1994-95            |
| 93        | Awapani Ph-II             | 2 x 250       | 500       | 250      | 2005-06            |
| 94        | Awapani at Gepuline       | 2 x 250       | 500       | 500      | 2014-15            |
| 95        | Tah Ahfra Ph-I & Ph-II    | 50 + 50       | 100       | 100      | 2001-02<br>2009-10 |
| 96        | Chini Afra                | 250           | 250       | 250      | 2001-02            |
| 97        | Echi Ahfra                | 2 x 200       | 400       | 400      | 2005-06            |
| 98        | Echito Nallah             | 2 x 20        | 40        | 40       | 2010-11            |



| SL.<br>No. | Name of the Stations  | Units   | Installed<br>Capacity | Firm<br>Capacity | Year of<br>Commissioning |
|------------|-----------------------|---------|-----------------------|------------------|--------------------------|
| 99         | Rupapani              | 2 x 20  | 40                    | 40               | 2010-11                  |
| 100        | Chu Nallah            | 2 x 15  | 30                    | 30               | 2011-12                  |
| Lohi       | t District            |         |                       |                  |                          |
| 101        | Doorah Nallah         | 5 x 100 | 500                   | 300              | 1976-77<br>2013-14       |
| 102        | Tafragram             | 250     | 250                   | 250              | 1984-85                  |
| Char       | nglang District       |         |                       |                  |                          |
| 103        | Tissue                | 4 x 100 | 400                   | 300              | 1986-87                  |
| 104        | Jongkey Nallah        | 25      | 25                    | 25               | 2011-12                  |
| 105        | Ngonalo at Vijaynagar | 2 x 50  | 100                   | 100              | 2010-11                  |
| 106        | Tinning               | 2 x 30  | 60                    | 30               | 2010-11                  |
| 107        | Chicklong             | 3 x 50  | 150                   | 150              | 2011-12                  |
| Tiraj      | p District            |         |                       |                  |                          |
| 108        | Thiratju              | 4 x 250 | 1000                  | 750              | 1978-79                  |
| 109        | Charju                | 3 x 200 | 600                   | 400              | 1984-85                  |
| 110        | Sumhok Nallah         | 2 x 50  | 100                   | 100              | 2009-10                  |
| 111        | Tahin Nallah          | 2 x 50  | 100                   | 100              | 2011-12                  |
| 112        | Namchik -II MHS       | 2 x 150 | 300                   | 300              | 2019-20                  |
| Anja       | w District            |         |                       |                  |                          |
| 113        | Kaho                  | 10      | 10                    | 10               | 2004-05                  |
| 114        | Kebitho               | 30      | 30                    | 30               | 2004-05                  |
| 115        | Mati Nallah           | 2 x 250 | 500                   | 500              | 2004-05                  |
| 116        | Yapak Nallah          | 2 x 100 | 200                   | 200              | 2005-06                  |
| 117        | Teepani               | 2 x 250 | 500                   | 500              | 2009-10                  |
| 118        | Krawti Nallah         | 2 x 50  | 100                   | 100              | 2009-10                  |
| 119        | Hathipani             | 2 x 50  | 100                   | 100              | 2009-10                  |
| 120        | Tah Nallah            | 2 x 50  | 100                   | 100              | 2009-10                  |
| 121        | Maipani               | 2 x 30  | 60                    | 60               | 2010-11                  |
| 122        | Ashapani              | 2 x 30  | 60                    | 60               | 2011-12                  |
| 123        | Langpani              | 2 x 200 | 400                   | 400              | 2011-12                  |
| 124        | Kachopani MHS         | 2x100   | 200                   | 200              | 2014-15                  |
|            | TOTAL                 |         | 75325                 | 68395            |                          |



# 2. ENERGY SALES WITHIN THE STATE TO POWER DEPARTMENT

The entire quantity of electricity generated by the HEPs is being sold within the State to the Power Department.

2. Performance during 2018-19

| 2. Terrormance during 2016-17 |                      |          |                       |                          |
|-------------------------------|----------------------|----------|-----------------------|--------------------------|
| SL.<br>No.                    | Name of the Stations | Units    | Installed<br>Capacity | Actual Net<br>Generation |
|                               | Western Zone (W      | (Z)      | (KW)                  | (KWH)                    |
| Taw                           | ang District         |          |                       |                          |
| 1                             | Chellengkang Ph-I    | 30       | 30                    | 34454                    |
| 2                             | Chellengkang Ph-II   | 30       | 30                    | 104932                   |
| 3                             | Shakti Nallah        | 2 x 50   | 100                   | 47231                    |
| 4                             | Thimbu               | 2 x 50   | 100                   | 58049                    |
| 5                             | Khet                 | 2 x 50   | 100                   | 0                        |
| 6                             | Tsechu Nallah        | 2 x 50   | 100                   | 44650                    |
| 7                             | Mago MHS             | 2x50     | 100                   | 59676                    |
| 8                             | Nuranang             | 3 x 2000 | 6000                  | 7841071                  |
| 9                             | Kitpi Ph-I           | 3 x 500  | 1500                  | 131882                   |
| 10                            | Kitpi MHS Ph-II      | 2 x 1500 | 3000                  | 3369616                  |
| 11                            | T. Gompa             | 50       | 50                    | 86333                    |
| 12                            | Bongleng             | 2 x 50   | 100                   | 72859                    |
| 13                            | Bramdhongchung       | 2 x 50   | 100                   | 0                        |
| 14                            | Bramdhongchung Ph-II | 2 x 50   | 100                   | 19669                    |
| 15                            | Mukto MHS            | 3 x 2000 | 6000                  | 11739017                 |
| 16                            | Nuranang Ph- II      | 2 x 500  | 1000                  |                          |
| West                          | t Kameng District    |          |                       |                          |
| 17                            | Rahung               | 3 x 250  | 750                   | 1019049                  |
| 18                            | Dirang               | 4 x 500  | 2000                  | 2830166                  |
| 19                            | Saktangrong          | 3 x 100  | 300                   | 0                        |
| 20                            | Zhongdongrong        | 2 x 500  | 1000                  | 723200                   |
| 21                            | Sessa                | 3 x 500  | 1500                  | 516333                   |
| 22                            | Rupa                 | 2 x 100  | 200                   | 62485                    |
| 23                            | Dokumpani            | 30       | 30                    | 0                        |
| 24                            | Domkhrong            | 2 x 1000 | 2000                  | 0                        |
| 25                            | Sinchung             | 30       | 30                    | 0                        |
| 26                            | Ankaling             | 30       | 30                    | 0                        |
| 27                            | Dikshi               | 30       | 30                    | 20133                    |
| 28                            | Khadiyabey           | 2 x 100  | 200                   | 0                        |
|                               |                      |          |                       |                          |



| SL.<br>No. | Name of the Stations  | Units      | Installed<br>Capacity | Actual Net<br>Generation |
|------------|-----------------------|------------|-----------------------|--------------------------|
| 29         | Jigaon                | 2 x 50     | 100                   | 170460                   |
|            | Kameng District       | 2 A 00     | 100                   | 1,0100                   |
| 30         | Seppa Seppa           | 3 x 100    | 300                   | 0                        |
| 31         | Pakke Kessang         | 30         | 30                    | 0                        |
| 32         | Pacha MHS             | 2 x 1500   | 3000                  | 721660                   |
| 33         | Pakoti                | 2 x 50     | 100                   | 348611                   |
| 34         | Patta Nallah          | 2 x 50     | 100                   | 349347                   |
| 35         | Watte Mame            | 50         | 50                    | 330167                   |
| 36         | Kade Nallah           | 50         | 50                    | 0                        |
| Kurı       | ung Kumey District    | ı          | •                     |                          |
| 37         | Koye                  | 1 x 50     | 50                    | 0                        |
| 38         | Paya MHS at Hiya      | 2 x 50     | 100                   | 178124                   |
| 39         | Kidding MHS           | 2 x 250    | 500                   | 898837                   |
| 40         | Dumi Dutte            | 30         | 30                    | 0                        |
| 41         | Payu MHS at Koloriang | 2 x 500    | 1000                  | 1283493                  |
| 42         | Patte MHS at Tali     | 30         | 30                    | 0                        |
| 43         | Chambang              | 30         | 30                    | 169                      |
| Low        | er Subansiri District |            |                       |                          |
| 44         | Mai Ph-I              | 4 x 500    | 2000                  | 375418                   |
| 45         | Mai Ph-II             | 2 x 500    | 1000                  | 0                        |
| 46         | Tago                  | 3 x 1500   | 4500                  | 193739                   |
| Upp        | er Subansiri District |            |                       |                          |
| 47         | Maro                  | 1 x 30     | 30                    | 0                        |
| 48         | Sippi                 | 2 x 2000   | 4000                  | 6933039                  |
| 49         | Pinto Karo MHS        | 1 x 25     | 25                    | 0                        |
| 50         | Sikin Karo            | 2 x 100    | 200                   | 45386                    |
| 51         | Sinyum Koro           | 2 x 50     | 100                   | 0                        |
| 52         | Dulom (Daporijo)      | 4 x 100    | 400                   | 0                        |
| 53         | Ayingmuri MHS         | 2 x 125    | 250                   | 0                        |
| 54         | Limeking MHS          | 1 x 30     | 30                    | 0                        |
| 55         | Kojin Nallah          | 2 x 50     | 100                   | 0                        |
|            | Estern Zone (EZ       | <b>(2)</b> |                       |                          |
| West       | t Siang District      | <u> </u>   |                       |                          |
| 56         | Pagi (Basar)          | 2 x 50     | 100                   | 112407                   |
| 57         | Along                 | 3 x 100    | 300                   | 43147                    |
| 58         | Ego-Echi (Dali)       | 4 x 100    | 400                   | 538238                   |
| 59         | Mechuka               | 6 x 25     | 150                   | 207874                   |
| 60         | Yomcha                | 50         | 50                    | 0                        |



| SL.<br>No. | Name of the Stations      | Units         | Installed<br>Capacity | Actual Net<br>Generation |
|------------|---------------------------|---------------|-----------------------|--------------------------|
| 61         | Beye                      | 30            | 30                    | 0                        |
| 62         | Kambang                   | 3 x 2000      | 6000                  | 10800                    |
| 63         | Liromoba                  | 2 x 1000      | 2000                  | 126518                   |
| 64         | Yingko Sikong at Rapum    | 50            | 50                    | 56385                    |
| 65         | Angu                      | 50            | 50                    | 0                        |
| 66         | Solegomang MHS            | 50            | 50                    | 56960                    |
| 67         | Borung MHS                | 50            | 50                    | 0                        |
| 68         | Sirikorang MHS            | 2x250         | 500                   | 1202235                  |
| Upp        | er Siang District         |               |                       |                          |
| 69         | Yingkiong Ph-I            | 3 x 50        | 150                   | 135884                   |
| 70         | Yingkiong Ph-II           | 2 x 100       | 200                   | 476546                   |
| 71         | Sikut/ Tuting             | 2 x 50        | 100                   | 125681                   |
| 72         | Silli at Geku             | 2 x 250       | 500                   | 915004                   |
| 73         | Sirnyuk                   | 2 x 1000      | 2000                  | 4700828                  |
| 74         | Kopu at Tuting            | 250           | 250                   | 945400                   |
| 75         | Silingri                  | 50            | 50                    | 129377                   |
| 76         | Singa                     | 30            | 30                    | 44377                    |
| 77         | Ngaming                   | 50            | 50                    | 148950                   |
| 78         | Sika                      | 15            | 15                    | 0                        |
| 79         | Mayung                    | 5             | 5                     | 4202                     |
| 80         | Gosang                    | 2 x 250       | 500                   | 339966                   |
| 81         | Kote MHS                  | 50            | 50                    | 0                        |
| 82         | Sijen MHS at Adi pasi     | 50            | 50                    | 0                        |
| 83         | Pyabung MHS               | 25            | 25                    | 0                        |
| Sian       | g District                |               |                       |                          |
| 84         | Yembung                   | 4 x 500       | 2000                  | 1388200                  |
| 85         | Subbung                   | 2 x 1500      | 3000                  | 1447400                  |
| East       | Siang District            |               |                       |                          |
| 86         | Pasighat                  | 2 x 100       | 200                   | 192450                   |
| 87         | Silli                     | 1 x 30        | 30                    | 42075                    |
| 88         | Rina                      | 2 x 1000      | 2000                  | 1423428                  |
| Low        | er Dibang Valley District |               |                       |                          |
| 89         | Deopani Ph-I              | 3 x 250       | 750                   | 0                        |
| 90         | Deopani Ph-II             | 3 x 250       | 750                   | 0                        |
| 91         | Abhapani                  | 250 + 2 x 100 | 450                   | 0                        |
| Diba       | ng Valley District        |               |                       |                          |
| 92         | Anini/ Awapani Ph-I       | 3 x 50        | 150                   | 0                        |
| 93         | Awapani Ph-II             | 2 x 250       | 500                   | 1187301                  |



| SL.<br>No. | Name of the Stations   | Units   | Installed<br>Capacity | Actual Net<br>Generation |
|------------|------------------------|---------|-----------------------|--------------------------|
| 94         | Awapani at Gepuline    | 2 x 250 | 500                   | 1323                     |
| 95         | Tah Ahfra Ph-I & Ph-II | 50 + 50 | 100                   | 0                        |
| 96         | Chini Afra             | 250     | 250                   | 23817                    |
| 97         | Echi Ahfra             | 2 x 200 | 400                   | 31226                    |
| 98         | Echito Nallah          | 2 x 20  | 40                    | 61776                    |
| 99         | Rupapani               | 2 x 20  | 40                    | 16431                    |
| 100        | Chu Nallah             | 2 x 15  | 30                    | 46001                    |
| Lohi       | t District             |         |                       |                          |
| 101        | Doorah Nallah          | 5 x 100 | 500                   | 209418                   |
| 102        | Tafragram              | 250     | 250                   | 161589                   |
| Chai       | nglang District        |         |                       |                          |
| 103        | Tissue                 | 4 x 100 | 400                   | 496367                   |
| 104        | Jongkey Nallah         | 25      | 25                    | 11198                    |
| 105        | Ngonalo at Vijaynagar  | 2 x 50  | 100                   | 0                        |
| 106        | Tinning                | 2 x 30  | 60                    | 60648                    |
| 107        | Chicklong              | 3 x 50  | 150                   | 78916                    |
| Tira       | p District             |         |                       |                          |
| 108        | Thiratju               | 4 x 250 | 1000                  | 52581                    |
| 109        | Charju                 | 3 x 200 | 600                   | 785084                   |
| 110        | Sumhok Nallah          | 2 x 50  | 100                   | 0                        |
| 111        | Tahin Nallah           | 2 x 50  | 100                   | 0                        |
| 112        | Namchik -II MHS        | 2 x 150 | 300                   |                          |
| Anja       | w District             |         |                       |                          |
| 113        | Kaho                   | 10      | 10                    | 4412                     |
| 114        | Kebitho                | 30      | 30                    | 0                        |
| 115        | Mati Nallah            | 2 x 250 | 500                   | 1114512                  |
| 116        | Yapak Nallah           | 2 x 100 | 200                   | 645444                   |
| 117        | Teepani                | 2 x 250 | 500                   | 828999                   |
| 118        | Krawti Nallah          | 2 x 50  | 100                   | 24486                    |
| 119        | Hathipani              | 2 x 50  | 100                   | 0                        |
| 120        | Tah Nallah             | 2 x 50  | 100                   | 0                        |
| 121        | Maipani                | 2 x 30  | 60                    | 0                        |
| 122        | Ashapani               | 2 x 30  | 60                    | 45998                    |
| 123        | Langpani               | 2 x 200 | 400                   | 337534                   |
| 124        | Kachopani MHS          | 2x100   | 200                   | 98687                    |
|            | TOTAL                  |         | 75325                 | 61747335                 |



#### A. DETERMINATION OF TARIFF FOR THE HEPS

Regulation 7 of Renewable Regulations,2018 provides that project specific tariff is to be determined for SHPs of installed capacity of 1MW to 25MW. Further, Hon'ble Commission in the Tariff order for the FY 2017-18 Dt. 02.11.2018 has directed DHPD to file consolidated ARR and average tariff for plants commissioned before 31.03.2017.

Accordingly, consolidated ARR and average tariff has been submitted for plants commissioned before 31.03.2017. Project specific tariff has been proposed for SHPs with installed capacity of 1 MW and above commissioned during the FY 2018-19 & FY 2019-20. For SHPs below 1 MW, commissioned during the FY 2019-20, ARR & tariff has been calculated on generic parameters as defined in the APSERC (Terms & Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2018.

The RE Regulations, 2018 provides that tariff for sale of electricity from a hydro power station shall be aimed at recovering the Annual Fixed Charges and various components of AFC has been defined in Regulation 9. Accordingly, following has been considered for calculating Annual Fixed Charges for the HEPs:

#### **Annual Fixed Charges:**

The Annual Fixed Charges (AFC) is determined based on following factors:-

- a) Project Cost
- b) Design Energy
- c) Interest on Loan Capital.
- d) Depreciation.
- e) Return on Equity.
- f) Operation & Maintenance Expenses.
- g) Interest on Working Capital.



#### 3. The assumptions considered for the HEPs are given below:

| Sl.<br>No. | Particulars                     | Unit   | V   | alue   |
|------------|---------------------------------|--------|---|--|
| 1          | Auxiliary Consumption           | %      |   | 1  |
| 2          | O&M Expenses                    |        | elow 5MW – 38.06<br>MW-25MW- 28.54  |  |
|            | Escalation                      | %      | 5.72% per annu  | ım   |
| 3          | Depreciation                    |        | Project commissioned before March,2012, rate of depreciation taken @2.57% | Project<br>commissioned<br>after<br>March,2012, rate<br>of depreciation<br>taken @5.28% as<br>per RE<br>Regulations,2018 |
|            | Plant Life                      | years  | 35  |  |
|            | Residual                        | %      | 10  |  |
| 4          | Working Capital                 |        |   |  |
|            | Receivable(2 months Fixed Cost) | Months | 2   |  |
|            | O & M Expenses                  | Months | 1   |  |
|            | Spares for Maintenance          | %      | 15  | O&M Expenses   |
|            | Rate of Interest                | %      | SBI MCLR<br>(One year<br>Tenor) + 300<br>basis point                      |  |
| 5          | Return on Equity                | %      | 14, grossed up<br>by applicable<br>MAT                                    |  |

### Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2020-21

| 6 | Equity     | % | 30  | Net Project Cost |
|---|------------|---|---|------------------|
|   | Loan       | % | 70  | Net Project Cost |
| 7 | Interest   | % | SBI MCLR<br>( One Year<br>Tenor) + 200<br>basis point |                  |
| 8 | Moratorium |   | No moratorium after COD                               |                  |

#### a) Capital Cost

Clause 12 of APSERC (Terms & Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2018 provides that the capital cost as specified in the technology specific chapters of the Regulation shall be considered for determination of AFC & Tariff. Capital as approved by the Commission shall be considered for project specific tariff.

In the instant petition project cost of 79 HEPs as considered by the Hon'ble Commission in the Tariff order for the FY 2019-20 has been considered.

For balance projects commissioned before 31.03.2017, project cost as determined as per APSERC (Terms & Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2012 and submitted in the tariff petition for the FY 2019-20 has been considered.

Regulation 7 of Renewable Regulations,2018 provides that project specific tariff is to be determined for SHPs of installed capacity of 1MW to 25MW. For SHPs below 1MW normative capital as provided in the Regulation 25 of Renewable Regulations,2018 is to be considered. DHPD has commissioned 3 SHPs with installed capacity of 1 MW & above during the FY 2018-19 & 1 SHP of installed capacity below 1MW and 1 SHP of 1 MW during the FY 2019-20. The details of capital cost considered is provided below:

i. Payu SHP -1 MW: The project was commissioned in FY 2018-19. However, the capital cost of the SHP has not been finalised. Therefore, for the purpose of determining provisional tariff, capital cost was considered on the parameters provided in the APSERC (Terms & Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2012 and submitted in the Tariff Petition for the FY 2019-20. The Hon'ble Commission did not approve the same. However, it is resubmitted for kind consideration of the Hon'ble Commission and is requested that the Hon'ble Commission may kindly consider & approve the provisional tariff till finalisation of capital cost of the SHP. DHPD shall submit the petition for approval of final capital cost & tariff subsequent to the finalisation of capital cost. of the SHP.



- ii. Subbung SHP -3 MW: The project was commissioned in FY 2018-19. However, the capital cost of the SHP has not been finalised. Therefore, for the purpose of determining provisional tariff, capital cost was considered on the parameters provided in the APSERC (Terms & Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2012 submitted in the Tariff Petition for the FY 2019-20. The Hon'ble Commission did not approve the same. However, it is resubmitted for kind consideration of the Hon'ble Commission and is requested that the Hon'ble Commission may kindly consider & approve the provisional tariff till finalisation of capital cost of the SHP. DHPD shall submit the petition for approval of final capital cost & tariff subsequent to the finalisation of capital cost. of the SHP.
- iii. Mukto HEP -6 MW: The project was commissioned in FY 2018-19. However, the capital cost of the SHP has not been finalised. Therefore, for the purpose of determining provisional tariff, capital cost has been taken as considered by the Hon'ble Commission in the Tariff Order Dt. 02.11.2018 for the FY 2017-18. It is requested that the Hon'ble Commission may kindly consider & approve the provisional tariff till finalisation of capital cost of the SHP. DHPD shall submit the petition for approval of final capital cost & tariff subsequent to the finalisation of capital cost. of the SHP.
- iv. Nuranang Ph-II SHP-1MW: The project was commissioned in FY 2019-20 However, the capital cost of the SHP has not been finalised. The RE Regulation, 2018 does not provide normative capital cost of HEPs with installed capacity of 1 MW and above. However, for determination of provisional tariff DHPD has calculated the capital cost on normative basis (considering per MW capital cost) in accordance with the Regulation 25 of APSERC RE Regulation, 2018. It is submitted that the Hon'ble Commission may kindly consider & allow the provisional tariff to be determined based on the normative capital cost as detailed above. DHPD shall submit the petition for approval of final capital cost & tariff subsequent to the finalisation of capital cost of the SHP.

Summary of the projects & capital cost is provided in the table below. The project wise details of capital is attached as Annexure- 1 & 2.

|            | Table No- 4. Capital Cost - Projects Commissioned upto -31.03.2017 |                               |                            |  |  |
|------------|--|-------------------------------|----------------------------|--|--|
| Sl.<br>No. | Particular   | Installed<br>Capacity<br>(MW) | Capital Cost<br>IN (Lakhs) |  |  |
| 1          | 79 HEPs  | 42.77                         | 43032.62                   |  |  |
| 2          | 37 HEPs  | 20.70                         | 15439.63                   |  |  |
|            | Total ====>  | 63.47                         | 58472.25                   |  |  |



| T          | Table No- 4.1. Capital Cost : Projects Commissioned in FY 2018-19 |                               |                            |  |  |
|------------|---|-------------------------------|----------------------------|--|--|
| Sl.<br>No. | Name of Station   | Installed<br>Capacity<br>(MW) | Capital Cost<br>IN (Lakhs) |  |  |
| 1          | Mukto MHS   | 6.00                          | 7798.70                    |  |  |
| 2          | Payu MHS at Koloriang   | 1.00                          | 747.32                     |  |  |
| 3          | Subbung   | 3.00                          | 2241.96                    |  |  |

| T          | Table No- 4.2. Capital Cost : Projects Commissioned in FY 2019-20 |                               |                            |  |  |
|------------|---|-------------------------------|----------------------------|--|--|
| Sl.<br>No. | Name of Station   | Installed<br>Capacity<br>(MW) | Capital Cost<br>IN (Lakhs) |  |  |
| 1          | Nuranang Ph- II   | 1.00                          | 1200.00                    |  |  |

#### b) **Design Energy**

Design energy of the HEPs has been calculated in accordance with the APSERC Regulations. Design energy of the HEPs is provided in the table below. The total design energy for all the HEPs is 626.85 MUs. Regulation 27 of RE Regulations, 2018 provides that CUF for SHPs is to be considered as 45%. However, in the instant petition CUF has been taken as 36 as considered/approved by the Hon'ble APSERC in the Tariff order for the FY 2018-19.

5. Design Energy

| SL.<br>No. | Name of the Stations | Installed<br>Capacity | Design Energy<br>(Annual) |
|------------|----------------------|-----------------------|---------------------------|
|            | Western Zone (WZ)    | (KW)                  | (MU)                      |
| Taw        | ang District         |                       |                           |
| 1          | Chellengkang Ph-I    | 30                    | 0.25                      |
| 2          | Chellengkang Ph-II   | 30                    | 0.25                      |
| 3          | Shakti Nallah        | 100                   | 0.83                      |
| 4          | Thimbu               | 100                   | 0.83                      |
| 5          | Khet                 | 100                   | 0.83                      |
| 6          | Tsechu Nallah        | 100                   | 0.83                      |
| 7          | Mago MHS             | 100                   | 0.83                      |
| 8          | Nuranang             | 6000                  | 49.93                     |
| 9          | Kitpi Ph-I           | 1500                  | 12.48                     |



| SL.<br>No. | Name of the Stations  | Installed<br>Capacity | Design Energy<br>(Annual) |
|------------|-----------------------|-----------------------|---------------------------|
| 10         | Kitpi MHS Ph-II       | 3000                  | 24.97                     |
| 11         | T. Gompa              | 50                    | 0.42                      |
| 12         | Bongleng              | 100                   | 0.83                      |
| 13         | Bramdhongchung        | 100                   | 0.83                      |
| 14         | Bramdhongchung Ph-II  | 100                   | 0.83                      |
| 15         | Mukto MHS             | 6000                  | 49.93                     |
| 16         | Nuranang Ph- II       | 1000                  | 8.32                      |
| West       | t Kameng District     |                       |                           |
| 17         | Rahung                | 750                   | 6.24                      |
| 18         | Dirang                | 2000                  | 16.64                     |
| 19         | Saktangrong           | 300                   | 2.50                      |
| 20         | Zhongdongrong         | 1000                  | 8.32                      |
| 21         | Sessa                 | 1500                  | 12.48                     |
| 22         | Rupa                  | 200                   | 1.66                      |
| 23         | Dokumpani             | 30                    | 0.25                      |
| 24         | Domkhrong             | 2000                  | 16.64                     |
| 25         | Sinchung              | 30                    | 0.25                      |
| 26         | Ankaling              | 30                    | 0.25                      |
| 27         | Dikshi                | 30                    | 0.25                      |
| 28         | Khadiyabey            | 200                   | 1.66                      |
| 29         | Jigaon                | 100                   | 0.83                      |
| East       | Kameng District       |                       |                           |
| 30         | Seppa                 | 300                   | 2.50                      |
| 31         | Pakke Kessang         | 30                    | 0.25                      |
| 32         | Pacha MHS             | 3000                  | 24.97                     |
| 33         | Pakoti                | 100                   | 0.83                      |
| 34         | Patta Nallah          | 100                   | 0.83                      |
| 35         | Watte Mame            | 50                    | 0.42                      |
| 36         | Kade Nallah           | 50                    | 0.42                      |
| Kurı       | ung Kumey District    |                       |                           |
| 37         | Koye                  | 50                    | 0.42                      |
| 38         | Paya MHS at Hiya      | 100                   | 0.83                      |
| 39         | Kidding MHS           | 500                   | 4.16                      |
| 40         | Dumi Dutte            | 30                    | 0.25                      |
| 41         | Payu MHS at Koloriang | 1000                  | 8.32                      |
| 42         | Patte MHS at Tali     | 30                    | 0.25                      |
| 43         | Chambang              | 30                    | 0.25                      |
| Low        | er Subansiri District |                       |                           |



| SL.<br>No. | Name of the Stations   | Installed<br>Capacity | Design Energy<br>(Annual) |
|------------|------------------------|-----------------------|---------------------------|
| 44         | Mai Ph-I               | 2000                  | 16.64                     |
| 45         | Mai Ph-II              | 1000                  | 8.32                      |
| 46         | Tago                   | 4500                  | 37.45                     |
| Upp        | er Subansiri District  |                       |                           |
| 47         | Maro                   | 30                    | 0.25                      |
| 48         | Sippi                  | 4000                  | 33.29                     |
| 49         | Pinto Karo MHS         | 25                    | 0.21                      |
| 50         | Sikin Karo             | 200                   | 1.66                      |
| 51         | Sinyum Koro            | 100                   | 0.83                      |
| 52         | Dulom (Daporijo)       | 400                   | 3.33                      |
| 53         | Ayingmuri MHS          | 250                   | 2.08                      |
| 54         | Limeking MHS           | 30                    | 0.25                      |
| 55         | Kojin Nallah           | 100                   | 0.83                      |
|            | Estern Zone (EZ)       |                       |                           |
| Wes        | t Siang District       |                       |                           |
| 56         | Pagi (Basar)           | 100                   | 0.83                      |
| 57         | Along                  | 300                   | 2.50                      |
| 58         | Ego-Echi (Dali)        | 400                   | 3.33                      |
| 59         | Mechuka                | 150                   | 1.25                      |
| 60         | Yomcha                 | 50                    | 0.42                      |
| 61         | Beye                   | 30                    | 0.25                      |
| 62         | Kambang                | 6000                  | 49.93                     |
| 63         | Liromoba               | 2000                  | 16.64                     |
| 64         | Yingko Sikong at Rapum | 50                    | 0.42                      |
| 65         | Angu                   | 50                    | 0.42                      |
| 66         | Solegomang MHS         | 50                    | 0.42                      |
| 67         | Borung MHS             | 50                    | 0.42                      |
| 68         | Sirikorang MHS         | 500                   | 4.16                      |
| Upp        | er Siang District      |                       |                           |
| 69         | Yingkiong Ph-I         | 150                   | 1.25                      |
| 70         | Yingkiong Ph-II        | 200                   | 1.66                      |
| 71         | Sikut/ Tuting          | 100                   | 0.83                      |
| 72         | Silli at Geku          | 500                   | 4.16                      |
| 73         | Sirnyuk                | 2000                  | 16.64                     |
| 74         | Kopu at Tuting         | 250                   | 2.08                      |
| 75         | Silingri               | 50                    | 0.42                      |
| 76         | Singa                  | 30                    | 0.25                      |
| 77         | Ngaming                | 50                    | 0.42                      |



| SL.<br>No. | Name of the Stations      | Installed<br>Capacity | Design Energy<br>(Annual) |
|------------|---------------------------|-----------------------|---------------------------|
| 78         | Sika                      | 15                    | 0.12                      |
| 79         | Mayung                    | 5                     | 0.04                      |
| 80         | Gosang                    | 500                   | 4.16                      |
| 81         | Kote MHS                  | 50                    | 0.42                      |
| 82         | Sijen MHS at Adi pasi     | 50                    | 0.42                      |
| 83         | Pyabung MHS               | 25                    | 0.21                      |
| Sian       | g District                |                       |                           |
| 84         | Yembung                   | 2000                  | 16.64                     |
| 85         | Subbung                   | 3000                  | 24.97                     |
| East       | Siang District            | •                     |                           |
| 86         | Pasighat                  | 200                   | 1.66                      |
| 87         | Silli                     | 30                    | 0.25                      |
| 88         | Rina                      | 2000                  | 16.64                     |
| Low        | er Dibang Valley District | 1                     |                           |
| 89         | Deopani Ph-I              | 750                   | 6.24                      |
| 90         | Deopani Ph-II             | 750                   | 6.24                      |
| 91         | Abhapani                  | 450                   | 3.74                      |
| Diba       | ng Valley District        | 1                     |                           |
| 92         | Anini/ Awapani Ph-I       | 150                   | 1.25                      |
| 93         | Awapani Ph-II             | 500                   | 4.16                      |
| 94         | Awapani at Gepuline       | 500                   | 4.16                      |
| 95         | Tah Ahfra Ph-I & Ph-II    | 100                   | 0.83                      |
| 96         | Chini Afra                | 250                   | 2.08                      |
| 97         | Echi Ahfra                | 400                   | 3.33                      |
| 98         | Echito Nallah             | 40                    | 0.33                      |
| 99         | Rupapani                  | 40                    | 0.33                      |
| 100        | Chu Nallah                | 30                    | 0.25                      |
| Lohi       | t District                | 1                     |                           |
| 101        | Doorah Nallah             | 500                   | 4.16                      |
| 102        | Tafragram                 | 250                   | 2.08                      |
|            | nglang District           | 1                     |                           |
| 103        | Tissue                    | 400                   | 3.33                      |
| 104        | Jongkey Nallah            | 25                    | 0.21                      |
| 105        | Ngonalo at Vijaynagar     | 100                   | 0.83                      |
| 106        | Tinning                   | 60                    | 0.50                      |
| 107        | Chicklong                 | 150                   | 1.25                      |



| SL.<br>No. | Name of the Stations | Installed<br>Capacity | Design Energy<br>(Annual) |
|------------|----------------------|-----------------------|---------------------------|
| Tira       | p District           |                       |                           |
| 108        | Thiratju             | 1000                  | 8.32                      |
| 109        | Charju               | 600                   | 4.99                      |
| 110        | Sumhok Nallah        | 100                   | 0.83                      |
| 111        | Tahin Nallah         | 100                   | 0.83                      |
| 112        | Namchik -II MHS      | 300                   | 2.50                      |
| Anja       | w District           |                       |                           |
| 113        | Kaho                 | 10                    | 0.08                      |
| 114        | Kebitho              | 30                    | 0.25                      |
| 115        | Mati Nallah          | 500                   | 4.16                      |
| 116        | Yapak Nallah         | 200                   | 1.66                      |
| 117        | Teepani              | 500                   | 4.16                      |
| 118        | Krawti Nallah        | 100                   | 0.83                      |
| 119        | Hathipani            | 100                   | 0.83                      |
| 120        | Tah Nallah           | 100                   | 0.83                      |
| 121        | Maipani              | 60                    | 0.50                      |
| 122        | Ashapani             | 60                    | 0.50                      |
| 123        | Langpani             | 400                   | 3.33                      |
| 124        | Kachopani MHS        | 200                   | 1.66                      |
|            | TOTAL                | 75325                 | 626.85                    |

#### c) Interest on Loan Capital

Clause 14 of APSERC RE Regulations,2018 provides that interest on loan taken to fund the cost of project shall be recovered through tariff. Project cost of the HEPs of DHPD has been funded by the budgetary support/central & state sponsored schemes and the department has not taken any loan for financing the projects. In view of the above, no interest on loan has been claimed. DHPD submits that it will claim interest on loan in accordance with the above regulation in case loan is availed for financing of projects in future.



#### d) **Depreciation**

Regulation 15 of APSERC RE Regulations,2018 provides that depreciation is to be calculated on the capital cost admitted by the Commission considering salvage value as 10%. The depreciation is to be calculated at 5.28% for the first 13 years and remaining depreciation to be spread over remaining useful life of the project. In line with the principle followed by the Hon'ble Commission in the tariff order for the FY 2019-20, depreciation for the HEPs commissioned before March,2012 has been calculated @ 2.57%. In respect of the projects commissioned after 2012, rate of depreciation has been considered at 5.28% as per RE Regulation,2018. Summary of the depreciation of the FY 2020-21 is provided below. SHP wise depreciation is provided in the Annexure – 3, 4 & 5.

|            | Table No- 6. Depreciation for the FY 2020-21                       |                               |   |  |
|------------|--|-------------------------------|---|--|
|            | Projects Commissioned upto -31.03.2017                             |                               |   |  |
| Sl.<br>No. | Particular   | Capital<br>Cost<br>IN (Lakhs) | Depreciation<br>Amount (Rs<br>in Lakhs) for<br>FY 2020-21 |  |
| 1          | Depreciation as approved in last TO- HEPs commissioned before 2012 | 38946.10                      | 1000.91   |  |
| 2          | Depreciation as approved in last TO- HEPs commissioned after 2012  | 4086.52                       | 194.19  |  |
| 3          | Other HEPs commissioned before 2012                                | 15439.63                      | 396.80  |  |
|            | Total ====>  | 58472.25                      | 1591.90   |  |

|                                     | Table No- 6.1. Depreciation for the FY 2020-21 |   |        |  |
|-------------------------------------|--|---|--------|--|
| Projects Commissioned in FY 2018-19 |  |   |        |  |
| Sl. Particular Cost in La           |  | Depreciation<br>Amount (Rs<br>in Lakhs) for<br>FY 2020-21 |        |  |
| 1                                   | Mukto MHS                                      | 7798.70   | 411.77 |  |
| 2                                   | Payu MHS at Koloriang                          | 747.32  | 39.46  |  |
| 3                                   | Subbung  | 2241.96   | 118.38 |  |
|                                     | Total ====>                                    | 10787.98  | 569.61 |  |



| Table No- 6.2. Depreciation for the FY 2020-21 |                 |                               |   |
|--|-----------------|-------------------------------|---|
| Projects Commissioned in FY 2019-20            |                 |                               |   |
| Sl.<br>No.                                     | Particular      | Capital<br>Cost<br>IN (Lakhs) | Depreciation<br>Amount (Rs<br>in Lakhs) for<br>FY 2020-21 |
| 1  | Nuranang Ph- II | 1200.00                       | 63.36   |

#### e) Return on Equity (ROE)

As per provision under Regulation 16 of APSERC Regulations, 2018, Return on Equity has been considered @ 14% per annum grossed up by MAT as on 1<sup>st</sup> April of previous year for each of HEP i.e 15.6%. Accordingly, Return on Equity has been considered at 16.18%. The capital for calculation of ROE has been considered as discussed in the previous section.

The Equity for the purpose of calculation of ROE has been computed as per Regulation 13 of APSERC RE Regulations, 2018. Accordingly, Debt-Equity ratio of 70:30 has been considered. Summary of ROE of SHPs is provided below. The SHP wise details of ROE is provided in Annexure -6 & 7.

| Т          | Table No- 7. Return on Equity (ROE) for the FY 2020-21 |                                  |  |  |
|------------|--|----------------------------------|--|--|
|            | Projects Commissioned upto -31.03.2017                 |                                  |  |  |
| Sl.<br>No. | Particular   | Capital Cost<br>(Rs. In<br>Lakh) | RoE (Rs. In<br>Lakh) for FY<br>2020-21 |  |
| 1          | 79 HEPs  | 43032.62                         | 2089.32                                |  |
| 2          | 37 HEPs  | 15439.63                         | 749.62                                 |  |
|            | Total ====>  | 58472.25                         | 2838.94                                |  |

| Ta         | Table No- 7.1. Return on Equity (ROE) for the FY 2020-21 |          |        |  |
|------------|--|----------|--------|--|
|            | Projects Commissioned in FY 2018-19                      |          |        |  |
| Sl.<br>No. | Particular   (Rs.In   Lakh)                              |          |        |  |
| 1          | Mukto MHS  | 7798.70  | 378.64 |  |
| 2          | Payu MHS at Koloriang                                    | 747.32   | 36.28  |  |
| 3          | Subbung  | 2241.96  | 108.85 |  |
|            | Total ====>  | 10787.98 | 523.78 |  |



| Ta                                  | Table No- 7.2. Return on Equity (ROE) for the FY 2020-21 |                                  |  |  |
|-------------------------------------|--|----------------------------------|--|--|
| Projects Commissioned in FY 2019-20 |  |                                  |  |  |
| Sl.<br>No.                          | Particular   | Capital Cost<br>(Rs. In<br>Lakh) | RoE (Rs. In<br>Lakh) for FY<br>2020-21 |  |
| 1                                   | Nuranang Ph- II  | 1200.00                          | 58.26                                  |  |

#### f) Operation & Maintenance Expenses

Regulation 29 of APSERC RE Regulations, 2018 provides that normative O&M for SHPs below 5 MW shall be Rs. 38.06 Lakh/MW & SHP between 5MW to 25 MW shall be Rs.28.54Lakh/MW for the base year of 2018-19. The regulation further provides for an escalation of 5.72% per annum on the above normative O&M for subsequent years. O&M expenses for the FY 2020-21 has been calculated as per the above regulation. The summary of O&M expenses is provided below. The SHP wise O&M expenses is provided in the Annexure – 8.

| Table No- 8. O&M Expenses for the FY 2020-21 |              |                               |   |
|--|--------------|-------------------------------|---|
| Projects Commissioned upto -31.03.2017       |              |                               |   |
| Sl.<br>No.                                   | Particular   | Installed<br>Capacity<br>(MW) | O & M COST for<br>FY 2020-21 (Rs.<br>In Lakh) |
| 1  | O&M Expenses | 63.45                         | 2574.82                                       |

|                                     | Table No- 8.1. O&M Expenses for the FY 2020-21 |       |        |  |
|-------------------------------------|--|-------|--------|--|
| Projects Commissioned in FY 2018-19 |  |       |        |  |
| Sl.<br>No.                          | O & M COST for<br>FY 2020-21 (Rs.<br>In Lakh)  |       |        |  |
| 1                                   | Mukto MHS                                      | 6.00  | 191.39 |  |
| 2                                   | Payu MHS at Koloriang                          | 1.00  | 42.54  |  |
| 3                                   | Subbung  | 3.00  | 127.62 |  |
|                                     | Total ====>                                    | 10.00 | 361.54 |  |



| Table No- 8.2. O&M Expenses for the FY 2020-21 |                 |                               |   |
|--|-----------------|-------------------------------|---|
| Projects Commissioned in FY 2019-20            |                 |                               |   |
| Sl.<br>No.                                     | Particular      | Installed<br>Capacity<br>(MW) | O & M COST for<br>FY 2020-21 (Rs.<br>In Lakh) |
| 1  | Nuranang Ph- II | 1.00                          | 42.54   |

#### g) Interest on Working Capital

The requirement of Working Capital & Interest thereon has been computed as per Clause 17 - "Interest on Working Capital" of the APSERC RE Regulations,2018. Interest @ 10.91 % per annum on working capital has been considered which is 300 basis points above the SBI MCLR(One year tenor) for last six months. The average SBI MCLR(One year tenor) for last six months is 7.91%. The summary of IWC is provided below.

| Ta  | Table No- 9. Interest on Working Capital for the FY 2020-21 |         |  |
|---|---|---------|--|
|   | Projects Commissioned upto -31.03.2017                      |         |  |
| S. Particulars FY 2020-27 Amount (Rs. In lakhs) |   |         |  |
| 1   | 2   | 3       |  |
| 1   | Operation & Maintenance Expenses (1 month)                  | 214.57  |  |
| 2   | Maintenance of Spares(15% of O&M)                           | 386.22  |  |
| 3   | Recceivables (2 months of fixed cost)                       | 1200.36 |  |
| 4   | Total   | 1801.15 |  |
| 5   | Interest on Working Capital@10.91%                          | 196.48  |  |



| Та                      | Table No- 9.1. Interest on Working Capital for the FY 2020-21 - Mukto MHS |   |  |
|-------------------------|---|---|--|
|                         | Projects Commissioned in FY 2018  | 8-19                                      |  |
| S. No. Particulars Amou |   | FY 2020-21<br>Amount<br>(Rs. In<br>lakhs) |  |
| 1                       | 2   | 3   |  |
| 1                       | Operation & Maintenance Expenses (1 month)                                | 15.95                                     |  |
| 2                       | Maintenance of Spares(15% of O&M)   | 28.71                                     |  |
| 3                       | Recceivables (2 months of fixed cost)                                     | 167.49                                    |  |
|                         |   |   |  |
| 4                       | Total   | 212.15                                    |  |

| Та                                | Table No- 9.2. Interest on Working Capital for the FY 2020-21 - Payu MHS at Kolariang |   |  |
|-----------------------------------|---|---|--|
|                                   | Projects Commissioned in FY 2018  | 8-19                                      |  |
| S. No. Particulars Amount (Rs. In |   | FY 2020-21<br>Amount<br>(Rs. In<br>lakhs) |  |
| 1                                 | 2   | 3   |  |
| 1                                 | Operation & Maintenance Expenses (1 month)  | 3.54                                      |  |
| 2                                 | Maintenance of Spares(15% of O&M)   | 6.38                                      |  |
| 3                                 | Recceivables (2 months of fixed cost)   | 20.26                                     |  |
| 4                                 | Total   | 30.19                                     |  |
|                                   |   |   |  |



| Table No- 9.3. Interest on Working Capital for the FY 2020-21 - Subbang |  |   |
|---|--|---|
|   | Projects Commissioned in FY 2018           | 8-19                                      |
| S. No. Particulars Amo (Rs.   |  | FY 2020-21<br>Amount<br>(Rs. In<br>lakhs) |
| 1   | 2  | 3   |
| 1   | Operation & Maintenance Expenses (1 month) | 10.63                                     |
| 2   | Maintenance of Spares(15% of O&M)          | 19.14                                     |
| 3   | Recceivables (2 months of fixed cost)      | 60.79                                     |
| 4   | Total                                      | 90.56                                     |
| 5   | Interest on Working Capital@10.91%         | 9.88                                      |

| Та                                      | Table No- 9.4. Interest on Working Capital for the FY 2020-21 - Nuranang Ph - II  Projects Commissioned in FY 2019-20 |                      |  |
|---|---|----------------------|--|
| S. Particulars FY 2020-2 Amount (Rs. In |   | FY 2020-21<br>Amount |  |
| 1                                       | 2   | 3                    |  |
| 1                                       | Operation & Maintenance Expenses (1 month)  | 3.54                 |  |
| 2                                       | Maintenance of Spares(15% of O&M)   | 6.38                 |  |
| 3                                       | Receivables (2 months of fixed cost)  | 28.05                |  |
| 4                                       | Total   | 37.98                |  |
| 5                                       | Interest on Working Capital@10.91%  | 4.14                 |  |



# 3. TOTAL ANNUAL FIXED CHARGES (AFC) FOR THE HEPS

Based on the above parameters, AFC for the Financial Year 2020-21 are given in the table below.

| Table No- 10. Annual Fixed Charge (AFC) for the FY 2020-21 |                                |         |  |
|--|--------------------------------|---------|--|
| Projects Commissioned upto -31.03.2017                     |                                |         |  |
| (Rs in Lakhs)  |                                |         |  |
| SL. No.  | Financial Year                 | 2020-21 |  |
| 1  | Depreciation                   | 1591.90 |  |
| 2  | Return on Equity               | 2838.94 |  |
| 3  | O&M Expenses                   | 2574.82 |  |
| 4  | Interest on Working Capital    | 196.48  |  |
| 5  | <b>Total Annual Fixed Cost</b> | 7202.14 |  |

| Table No- 10.1. Annual Fixed Charge (AFC) for the FY 2020-21 - Mukto MHS |                                |         |  |
|--|--------------------------------|---------|--|
| Projects Commissioned in FY 2018-19                                      |                                |         |  |
| (Rs in Lakhs)  |                                |         |  |
| SL. No.  | Financial Year                 | 2020-21 |  |
| 1  | Depreciation                   | 411.77  |  |
| 2  | Return on Equity               | 378.64  |  |
| 3  | O&M Expenses                   | 191.39  |  |
| 4  | Interest on Working Capital    | 23.14   |  |
| 5  | <b>Total Annual Fixed Cost</b> | 1004.95 |  |



| Table No- 10.2. Annual Fixed Charge (AFC) for the FY 2020-21 - Payu MHS at Kolariang |                                     |         |  |
|--|-------------------------------------|---------|--|
| Pro  | Projects Commissioned in FY 2018-19 |         |  |
| (Rs in Lakhs)  |                                     |         |  |
| SL. No.  | Financial Year                      | 2020-21 |  |
| 1  | Depreciation                        | 39.46   |  |
| 2  | Return on Equity                    | 36.28   |  |
| 3  | O&M Expenses                        | 42.54   |  |
| 4  | Interest on Working Capital         | 3.29    |  |
| 5  | <b>Total Annual Fixed Cost</b>      | 121.57  |  |

| Table No- 10.3. Annual Fixed Charge (AFC) for the FY 2020-21 - Subbang |                                     |         |  |  |
|--|-------------------------------------|---------|--|--|
| Pro  | Projects Commissioned in FY 2018-19 |         |  |  |
|  | (Rs in Lakhs)                       |         |  |  |
| SL. No.  | Financial Year                      | 2020-21 |  |  |
| 1  | Depreciation                        | 118.38  |  |  |
| 2  | Return on Equity                    | 108.85  |  |  |
| 3  | O&M Expenses                        | 127.62  |  |  |
| 4  | Interest on Working Capital         | 9.88    |  |  |
| 5  | <b>Total Annual Fixed Cost</b>      | 364.72  |  |  |

| Table No- 10.4. Annual Fixed Charge (AFC) for the FY 2020-21 - Nuranang Ph - II |                                |         |
|---|--------------------------------|---------|
| Projects Commissioned in FY 2019-20   |                                |         |
| (Rs in Lakhs)   |                                |         |
| SL. No.   | Financial Year                 | 2020-21 |
| 1   | Depreciation                   | 63.36   |
| 2   | Return on Equity               | 58.26   |
| 3   | O&M Expenses                   | 42.54   |
| 4   | Interest on Working Capital    | 4.14    |
| 5   | <b>Total Annual Fixed Cost</b> | 168.30  |



#### 3. a) Tariff

Based on the Annual Fixed Charges and the 36 % CUF , the tariff for the year 2020-21 is worked out as under: -

| Tal        | Table No- 11. Tariff for the FY 2020-21 |               |  |
|------------|---|---------------|--|
|            | Projects Commissioned upto - 31.03.2017 |               |  |
|            | (Rs                                     | in Lakhs)     |  |
| SL.<br>No. | Particulars                             | FY<br>2020-21 |  |
| 1          | Annual Fixed Charges                    | 7202.14       |  |
| 2          | Installed Capacity                      | 63.47         |  |
| 3          | CUF considered (%)                      | 0.36          |  |
| 4          | Gross Energy (MU)                       | 200.14        |  |
| 5          | Auxiliary Power Consumption (1%)        | 2.00          |  |
| 6          | Saleable Energy (MU)                    | 198.14        |  |
| 7          | Tariff (Rs./kWh)                        | 3.63          |  |

| Tal        | Table No- 11.1. Tariff for the FY 2020-21 - Mukto MHS |                |  |
|------------|---|----------------|--|
| P          | Project Commissioned in FY 2018-19                    |                |  |
|            | (Rs in Lakhs)   |                |  |
| SL.<br>No. | Particulars   | FY 2020-<br>21 |  |
| 1          | Annual Fixed Charges                                  | 1004.95        |  |
| 2          | Installed Capacity                                    | 6.00           |  |
| 3          | CUF considered (%)                                    | 0.36           |  |
| 4          | Gross Energy  | 18.92          |  |
| 5          | Auxiliary Power Consumption (1%)                      | 0.19           |  |
| 6          | Saleable Energy (MU)                                  | 18.73          |  |
| 7          | Tariff (Rs./kWh)                                      | 5.36           |  |



| Table No- 11.2. Tariff for the FY 2020-21 - Payu MHS at Kolariang |                                    |                |  |
|---|------------------------------------|----------------|--|
| P   | Project Commissioned in FY 2018-19 |                |  |
|   | (R                                 | s in Lakhs)    |  |
| SL.<br>No.  | Particulars                        | FY 2020-<br>21 |  |
| 1   | Annual Fixed Charges               | 121.57         |  |
| 2   | Installed Capacity                 | 1.00           |  |
| 3   | CUF considered (%)                 | 0.36           |  |
| 4   | Gross Energy                       | 3.15           |  |
| 5   | Auxiliary Power Consumption (1%)   | 0.03           |  |
| 6   | Saleable Energy (MU)               | 3.12           |  |
| 7   | Tariff (Rs./kWh)                   | 3.89           |  |

| Table No- 11.3. Tariff for the FY 2020-21 - Subbang |                                  |                |
|---|----------------------------------|----------------|
| Project Commissioned in FY 2018-19                  |                                  |                |
| (Rs in Lakhs)                                       |                                  |                |
| SL.<br>No.  | Particulars                      | FY 2020-<br>21 |
| 1   | Annual Fixed Charges             | 364.72         |
| 2   | Installed Capacity               | 3.00           |
| 3   | CUF considered (%)               | 0.36           |
| 4   | Gross Energy                     | 9.46           |
| 5   | Auxiliary Power Consumption (1%) | 0.09           |
| 6   | Saleable Energy (MU)             | 9.37           |
| 7   | Tariff (Rs./kWh)                 | 3.89           |



| Table No- 11.4. Tariff for the FY 2020-21 -<br>Nuranang Ph - II |                                    |             |  |  |  |
|---|------------------------------------|-------------|--|--|--|
| P   | Project Commissioned in FY 2019-20 |             |  |  |  |
|   | (R                                 | s in Lakhs) |  |  |  |
| SL. Particulars FY  |                                    |             |  |  |  |
| 1   | Annual Fixed Charges               | 168.30      |  |  |  |
| 2   | Installed Capacity                 | 1.00        |  |  |  |
| 3   | CUF considered (%)                 | 0.36        |  |  |  |
| 4   | Gross Energy                       | 3.15        |  |  |  |
| 5   | Auxiliary Power Consumption (1%)   | 0.03        |  |  |  |
| 6   | Saleable Energy (MU)               | 3.12        |  |  |  |
| 7   | Tariff (Rs./kWh)                   | 5.39        |  |  |  |

#### 4. LEVELLISED TARIFF FOR NAMCHIK-II MHS

#### 4.1 GENERAL

The DHPD has proposed the levellised tariff for the entire life of the above project as per RE, Regulation 2018 and all other factors of fixed cost for tariff determination such as Capital cost, O&M expenses, Return on Equity, Interest on Loan, Interest on Working Capital and Depreciation considered as per the said regulation. Normative CUF i.e 45% considered for determination of tariff.

#### 4.2 CAPITAL COST - COMMISSION ANALYSIS

The capital cost for Namchik-II MHS has been determined as per the clause 25 of the RE Regulation, 2018.

As per clause 25 of RE regulation 2018 the normative capital cost for small hydro projects during first year of Control Period (FY 2018-19) shall be as follows:

| Region    | Project Size      | Capital Cost ( Rs.Lakh/MW) |  |
|-----------|-------------------|----------------------------|--|
| Arunachal | Below 500kW       | 1400                       |  |
| Pradesh   | 500kW – below 1MW | 1200                       |  |



The Regulation further provides that the Capital Cost for SHP as specified for first year of control period will remain valid for the entire duration of the control period (2018-2021') unless reviewed earlier by the Commission based on market information.

The capital cost of Namchik -II MHS commissioned in FY 2019-20 has been considered in accordance with the above Regulations. The capital cost for the SHP is provided below:

Table - Capital Cost of Namchik-II

| Table No-12. Capital Cost : Project Commissioned in FY 2019-20 |                 |                               |                            |  |
|--|-----------------|-------------------------------|----------------------------|--|
| Sl.<br>No.   | Name of Station | Installed<br>Capacity<br>(MW) | Capital Cost<br>IN (Lakhs) |  |
| 1  | Namchik -II MHS | 0.30                          | 420.00                     |  |

#### 4.3 DEBT-EQUITY RATIO

- 1. Clause 13 of the RE Regulations 2012, provides that the debt-equity ratio of 70:30 is to be considered for determination of tariff.
- 2. Based on the debt equity ratio of 70:30, the debt and equity components of the normative capital cost for determination of tariff for the RE projects have been worked out as under:

| Small Hydro Projects | Debt (Rs. Lakhs) | Equity (Rs. Lakhs) |
|----------------------|------------------|--------------------|
| Namchik-II           | 294              | 126                |

#### **4.4 RETURN ON EQUITY**

Sub-Regulation (1) of Regulation 16 of the RE Tariff Regulations provides that the value base for the equity shall be 30% of the capital cost for generic tariff determination. Sub-Regulation (2) of the said Regulation stipulates the normative Return on Equity (ROE) as 14%, to be grossed up by prevailing Minimum Alternate Tax (MAT) as on 1<sup>st</sup> April of previous year for the entire useful life of the project.

In terms of the above Regulation, Return on Equity has been considered @ 14% per annum grossed up by MAT as on 1<sup>st</sup> April of previous year for each of HEP i.e 15.6%. Accordingly, Return on Equity has been considered at 16.18%.



#### 4.5 INTEREST ON LOAN CAPITAL

DHPD has not claimed the interest on Loan Capital as Project cost of the HEPs has been funded by the budgetary support/central & state sponsored schemes and the department has not taken any loan for financing the projects.

#### 4.6 DEPRECIATION

The DHPD has proposed depreciation as per clause 15 of RE regulation 2018. The Regulation provides as follows:

- 1. The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission- The Salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the Capital Cost of the asset.
- 2. Depreciation rate of 5.28% per annum for first 13 years and remaining depreciation to be spread during remaining useful life of the RE projects considering the salvage value of the project as 10% of project cost shall be considered.

Accordingly, depreciation has been considered as below:

| Details                                   | SHP  |
|---|------|
| Useful life in years                      | 35   |
| Rate of Depreciation – 1st 13 Years (%)   | 5.28 |
| Rate of Depreciation – after 13 Years (%) | 0.97 |

#### 4.7 O&M EXPENSES

As per clause 29 of RE regulation 2018, the normative O&M expenses for the first year of the control period (i.e. FY 2018-19) shall be as follows:-

| Region    | Project Size  | O&M Expenses ( Rs.Lakh/MW) |
|-----------|---------------|----------------------------|
| Arunachal | Below 5 MW    | 38.06                      |
| Pradesh   | 5 MW to 25 MW | 28.54                      |



The Regulation further provides that the normative O&M expenses allowed under these Regulations shall be escalated at the rate of 5.72% per annum for the Tariff Period for the purpose of determination of levellised tariff.

Accordingly, the normative O&M Expenses considered by the DHPD for the project for the FY 2020-21 is as follows:-

| Project Size | O&M Expenses ( Rs. Lakh/MW) |  |  |
|--------------|-----------------------------|--|--|
| Below 5 MW   | 42.54                       |  |  |

#### 4.8 INTEREST ON WORKING CAPITAL

The Working Capital requirement has been calculated in accordance with the clause 17(1) of the APSERC RE Regulation, 2018, with the following:

- a) Operation & Maintenance expenses for one month;
- b) Receivables equivalent to 2 (Two) months of energy charges for sale of electricity calculated on the normative CUF;
- c) Maintenance spare @ 15% of operation and maintenance expenses.

Further, clause 17(3) of the APSERC RE Regulation, 2018 provides as follows:

"Interest on Working Capital shall be at interest rate equivalent to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months for the determination of tariff."

Interest rate has been considered as weighted average of State Bank of India MCLR (One Year Tenor) prevalent during the last available six months of the previous year plus 300 basis points.

Accordingly, Interest @ 10.91 % per annum on working capital has been considered which is 300 basis points above the SBI MCLR(One year tenor) for last six months. The average SBI MCLR(One year tenor) for last six months is 7.91%.



#### 4.9 CAPACITY UTILISATION FACTOR (CUF)

Clause 27 of the RE Regulations 2018, provides that CUF for the small hydro projects shall be 45%.

Further, clause 18 of the RE Regulations 2018 provides as follows:

"The number of hours for calculation of CUF/PLF (wherever applicable) for various RE technologies shall be 8766."

CUF for the project has been considered as per the above Regelation.

#### 4.10 AUXILIARY POWER CONSUMPTION

Regulations 28 of the RE Regulations 2018 provides as follows:

"Normative Auxiliary Consumption for the small hydro projects shall be 1 %"

The above rate of auxiliary consumption has been considered for calculation of saleable energy for the project.

#### 4.11 LEVELISED TARIFF PROPOSED FOR THE NAMCHIK-II MHS

On the basis of the component wise details provided above, the proposed levellised tariff for the Namchik -II MHS is provided below. The assumptions & and detailed calculation of the levellised tariff is provided as Annexure -9.

| Name of the SHP | Levellised Tariff (Rs./kWh) |
|-----------------|-----------------------------|
| Namchik-II      | 5.29                        |



#### PRAYER

It is respectfully prayed that the Hon'ble Commission may be pleased to:

- (a) Approve the Annual Fixed Charges & Tariff as submitted in Para 3 & 4
- (b) Pass such other and further order(s) as are deemed fit and proper in the facts and circumstances of the case.

**Authorised Signatory** 

Place: Itanagar

Date:

# **ANNEXURES**

|     | Annexure - 1.                       |               |               |  |  |
|-----|-------------------------------------|---------------|---------------|--|--|
|     | Capital Cost not Approved by APSERC |               |               |  |  |
| Sl. | Name of Station                     | Installed     | Capital Cost  |  |  |
| No. |                                     | Capacity (MW) | IN (Lakhs)    |  |  |
| 1   | Kitpi Ph-I                          | 1.50          | 1120.98       |  |  |
| 2   | T. Gompa                            | 0.05          | 37.37         |  |  |
| 3   | Chellengkang Ph-I                   | 0.03          | 22.42         |  |  |
| 4   | Rahung                              | 0.75          | 560.49        |  |  |
| 5   | Dirang                              | 2.00          | 1494.64       |  |  |
| 6   | Saktangrong                         | 0.30          | 224.20        |  |  |
| 7   | Rupa                                | 0.20          | 149.46        |  |  |
| 8   | Dokumpani                           | 0.03          | 22.42         |  |  |
| 9   | Seppa                               | 0.30          | 224.20        |  |  |
| 10  | Pakke Kessang                       | 0.03          | 22.42         |  |  |
| 11  | Patte MHS at Tali                   | 0.03          | 22.42         |  |  |
| 12  | Mai Ph-I                            | 2.00          | 1494.64       |  |  |
| 13  | Mai Ph-II                           | 1.00          | 747.32        |  |  |
| 14  | Tago                                | 4.50          | 3362.94       |  |  |
| 15  | Maro                                | 0.03          | 22.42         |  |  |
| 16  | Dulom (Daporijo)                    | 0.40          | 269.04        |  |  |
| 17  | Pagi (Basar)                        | 0.10          | 74.73         |  |  |
| 18  | Along                               | 0.30          | 224.20        |  |  |
| 19  | Ego-Echi (Dali)                     | 0.40          | 298.93        |  |  |
| 20  | Yomcha                              | 0.05          | 37.37         |  |  |
| 21  | Beye                                | 0.03          | 22.42         |  |  |
| 22  | Yingkiong Ph-I                      | 0.15          | 112.10        |  |  |
| 23  | Yingkiong Ph-II                     | 0.20          | 149.46        |  |  |
| 24  | Sikut/ Tuting                       | 0.10          | 74.73         |  |  |
| 25  | Selli at Geku                       | 0.50          | 373.66        |  |  |
| 26  | Pasighat                            | 0.20          | 149.46        |  |  |
| 27  | Silli                               | 0.03          | 22.42         |  |  |
| 28  | Yembung                             | 2.00          | 1494.64       |  |  |
| 29  | Deopani Ph-I                        | 0.75          | 560.49        |  |  |
| 30  | Abhapani                            | 0.45          | 336.29        |  |  |
| 31  | Anini/ Awapani Ph-I                 | 0.15          | 112.10        |  |  |
| 32  | Chini Afra                          | 0.25          | 186.83        |  |  |
| 33  | Tafragram                           | 0.25          | 186.83        |  |  |
| 34  | Kaho                                | 0.01          |               |  |  |
| 35  | Kebitho                             | 0.03          | 7.47<br>22.42 |  |  |
| 36  | Thiratju                            | 1.00 747      |               |  |  |
| 37  | Charju                              | 0.60          | 448.39        |  |  |
|     | Total ======>                       | 20.70         | 15439.63      |  |  |

| Annexure - 2. |                                 |               |            |  |  |  |
|---------------|---------------------------------|---------------|------------|--|--|--|
|               | Capital Cost Approved by APSERC |               |            |  |  |  |
| Sl.           | Name of Station                 | Capital Cost  |            |  |  |  |
| No.           | Name of Station                 | Capacity (MW) | IN (Lakhs) |  |  |  |
| 1             | Nuranang                        | 6.00          | 985.00     |  |  |  |
| 2             | Bramdhongchung                  | 0.10          | 105.30     |  |  |  |
| 3             | Shakti Nallah                   | 0.10          | 109.32     |  |  |  |
| 4             | Kitpi MHS Ph-II                 | 3.00          | 3373.83    |  |  |  |
| 5             | Chellengkang Ph-II              | 0.03          | 54.94      |  |  |  |
| 6             | Bongleng                        | 0.10          | 114.27     |  |  |  |
| 7             | Thimbu                          | 0.10          | 126.91     |  |  |  |
| 8             | Bramdhongchung Ph-II            | 0.10          | 134.71     |  |  |  |
| 9             | Tsechu Nallah                   | 0.10          | 157.75     |  |  |  |
| 10            | Khet                            | 0.10          | 144.27     |  |  |  |
| 11            | Mago MHS                        | 0.10          | 140.44     |  |  |  |
| 12            | Zhongdongrong                   | 1.00          | 1406.44    |  |  |  |
| 13            | Sessa                           | 1.50          | 131.00     |  |  |  |
| 14            | Domkhrong                       | 2.00          | 2845.77    |  |  |  |
| 15            | Sinchung                        | 0.05          | 54.48      |  |  |  |
| 16            | Ankaling                        | 0.03          | 66.35      |  |  |  |
| 17            | Dikshi                          | 0.03          | 56.86      |  |  |  |
| 18            | Khadiyabey                      | 0.20          | 282.91     |  |  |  |
| 19            | Jigaon                          | 0.10          | 71.85      |  |  |  |
| 20            | Pacha MHS                       | 3.00          | 3992.80    |  |  |  |
| 21            | Pakoti                          | 0.10          | 138.37     |  |  |  |
| 22            | Patta Nallah                    | 0.10          | 140.80     |  |  |  |
| 23            | Watte Mame                      | 0.05          | 145.50     |  |  |  |
| 24            | Kade Nallah                     | 0.05          | 95.09      |  |  |  |
| 25            | Koye                            | 0.05          | 98.00      |  |  |  |
| 26            | Paya MHS at Hiya                | 0.10          | 237.93     |  |  |  |
| 27            | Chambang                        | 0.03          | 109.55     |  |  |  |
| 28            | Sippi                           | 4.00          | 3832.92    |  |  |  |
| 29            | Pinto Karo MHS                  | 0.03          | 83.11      |  |  |  |
| 30            | Sikin Karo                      | 0.20          | 387.61     |  |  |  |
| 31            | Sinyum Koro                     | 0.10          | 197.06     |  |  |  |
| 32            | Ayingmuri MHS                   | 0.25          | 175.00     |  |  |  |
| 33            | Limeking MHS                    | 0.03          | 21.00      |  |  |  |
| 34            | Kojin Nallah                    | 0.10          | 184.35     |  |  |  |
| 35            | Mechuka                         | 0.15          | 113.02     |  |  |  |
| 36            | Kambang                         | 6.00          | 3832.92    |  |  |  |
| 37            | Liromoba                        | 2.00          | 3073.73    |  |  |  |
| 38            | Yingko Sikong at Rapum          | 0.05          | 40.14      |  |  |  |
| 39            | Angu                            | 0.05          | 39.46      |  |  |  |
| 40            | Solegomang MHS                  | 0.05          | 88.83      |  |  |  |
| 41            | Sirikorang MHS                  | 0.50          | 646.11     |  |  |  |
| 42            | Sirnyuk                         | 2.00          | 2464.32    |  |  |  |
| 43            | Kopu at Tuting                  | 0.25          | 259.60     |  |  |  |
| 44            | Silingri                        | 0.05          | 101.68     |  |  |  |

|                                 | Annexure - 2.          |               |              |  |  |
|---------------------------------|------------------------|---------------|--------------|--|--|
| Capital Cost Approved by APSERC |                        |               |              |  |  |
| Sl.                             | Name of Station        | Installed     | Capital Cost |  |  |
| No.                             | Name of Station        | Capacity (MW) | IN (Lakhs)   |  |  |
| 45                              | Singa                  | 0.03          | 122.98       |  |  |
| 46                              | Ngaming                | 0.05          | 103.04       |  |  |
| 47                              | Sika                   | 0.02          | 50.00        |  |  |
| 48                              | Mayung                 | 0.01          | 22.22        |  |  |
| 49                              | Gosang                 | 0.50          | 826.00       |  |  |
| 50                              | Kote MHS               | 0.05          | 96.70        |  |  |
| 51                              | Sijen MHS at Adi pasi  | 0.05          | 91.41        |  |  |
| 52                              | Pyabung MHS            | 0.03          | 74.13        |  |  |
| 53                              | Rina                   | 2.00          | 3024.45      |  |  |
| 54                              | Deopani Ph-II          | 0.75          | 290.10       |  |  |
| 55                              | Awapani Ph-II          | 0.50          | 714.46       |  |  |
| 56                              | Awapani at Gepuline    | 0.50          | 714.46       |  |  |
| 57                              | Tah Ahfra Ph-I & Ph-II | 0.10          | 49.63        |  |  |
| 58                              | Echi Ahfra             | 0.40          | 484.79       |  |  |
| 59                              | Echito Nallah          | 0.04          | 74.04        |  |  |
| 60                              | Rupapani               | 0.04          | 74.65        |  |  |
| 61                              | Chu Nallah             | 0.03          | 73.84        |  |  |
| 62                              | Doorah Nallah          | 0.50          | 404.87       |  |  |
| 63                              | Tissue                 | 0.40          | 617.00       |  |  |
| 64                              | Jongkey Nallah         | 0.03          | 144.50       |  |  |
| 65                              | Ngonalo at Vijaynagar  | 0.10          | 408.45       |  |  |
| 66                              | Tinning                | 0.06          | 99.98        |  |  |
| 67                              | Chicklong              | 0.15          | 98.14        |  |  |
| 68                              | Mati Nallah            | 0.50          | 598.56       |  |  |
| 69                              | Yapak Nallah           | 0.20          | 317.71       |  |  |
| 70                              | Teepani                | 0.50          | 675.47       |  |  |
| 71                              | Krawti Nallah          | 0.10          | 119.07       |  |  |
| 72                              | Hathipani              | 0.10          | 120.44       |  |  |
| 73                              | Tah Nallah             | 0.10          | 122.99       |  |  |
| 74                              | Maipani                | 0.06          | 98.14        |  |  |
| 75                              | Ashapani               | 0.06          | 99.98        |  |  |
| 76                              | Langpani               | 0.40          | 543.91       |  |  |
| 77                              | Kachopani MHS          | 0.20          | 393.33       |  |  |
| 78                              | Sumhok Nallah          | 0.10          | 198.90       |  |  |
| 79                              | Tahin Nallah           | 0.10          | 222.98       |  |  |
|                                 | Total ======>          | 42.77         | 43032.62     |  |  |

|            | Annexure - 3.                                      |                           |                          |                               |                                  |   |  |
|------------|--|---------------------------|--------------------------|-------------------------------|----------------------------------|---|--|
|            | Projects not considered by commission              |                           |                          |                               |                                  |   |  |
|            | Depreciation for Plant Commissioned before FY 2012 |                           |                          |                               |                                  |   |  |
| Sl.<br>No. | Name of Station                                    | Division/Zone             | Date of COD              | Installed<br>Capacity<br>(MW) | Capital<br>Cost<br>IN<br>(Lakhs) | Depreciation<br>Amount 2.57%<br>P.A. (Rs in<br>Lakhs) for FY<br>2020-21 |  |
| 1          | Kitpi Ph-I   | Western Zone              | 01-04-1977               | 1.50                          | 1120.98                          |   |  |
| 2          | T. Gompa   | Western Zone              | 01-04-2001               | 0.05                          | 37.37                            | 0.96  |  |
| 3          | Chellengkang Ph-I                                  | Western Zone              | 01-04-2004               | 0.03                          | 22.42                            | 0.58  |  |
| 4          | Rahung   | Western Zone              | 01-04-1972               | 0.75                          | 560.49                           | 14.40   |  |
| 5          | Dirang   | Western Zone              | 01-04-1977               | 2.00                          | 1494.64                          | 38.41   |  |
| 6          | Saktangrong  | Western Zone              | 01-04-2011               | 0.30                          | 224.20                           | 5.76  |  |
| 7          | Rupa   | Western Zone              | 01-04-1997               | 0.20                          | 149.46                           | 3.84  |  |
| 8          | Dokumpani  | Western Zone Western Zone | 01-04-2000<br>01-04-1980 | 0.03                          | 22.42<br>224.20                  | 0.58<br>5.76  |  |
|            | Seppa<br>Pakke Kessang                             | Western Zone              | 01-04-1980               | 0.30                          | 22.42                            | 0.58  |  |
|            | Patte MHS at Tali                                  | Western Zone              | 01-04-2001               | 0.03                          | 22.42                            | 0.58  |  |
|            | Mai Ph-I   | Western Zone              | 01-04-2004               | 2.00                          | 1494.64                          | 38.41   |  |
|            | Mai Ph-II  | Western Zone              | 01-04-1982               | 1.00                          | 747.32                           | 19.21   |  |
|            | Tago   | Western Zone              | 01-04-1992               | 4.50                          | 3362.94                          | 86.43   |  |
|            | Maro   | Western Zone              | 01-04-2002               | 0.03                          | 22.42                            | 0.58  |  |
|            | Dulom (Daporijo)                                   | Western Zone              | 01-04-1981               | 0.40                          | 269.04                           | 6.91  |  |
|            | Pagi (Basar)                                       | Eastern Zone              | 01-04-1972               | 0.10                          | 74.73                            | 1.92  |  |
| 18         | Along  | Eastern Zone              | 01-04-1975               | 0.30                          | 224.20                           | 5.76  |  |
| 19         | Ego-Echi (Dali)                                    | Eastern Zone              | 01-04-1987               | 0.40                          | 298.93                           | 7.68  |  |
| 20         | Yomcha   | Eastern Zone              | 01-04-2001               | 0.05                          | 37.37                            | 0.96  |  |
|            | Beye   | Eastern Zone              | 01-04-2004               | 0.03                          | 22.42                            | 0.58  |  |
|            | Yingkiong Ph-I                                     | Eastern Zone              | 01-04-1980               | 0.15                          | 112.10                           | 2.88  |  |
|            | Yingkiong Ph-II                                    | Eastern Zone              | 01-04-1992               | 0.20                          | 149.46                           | 3.84  |  |
|            | Sikut/ Tuting                                      | Eastern Zone              | 01-04-1984               | 0.10                          | 74.73                            | 1.92  |  |
|            | Selli at Geku                                      | Eastern Zone              | 01-04-1994               | 0.50                          | 373.66                           |   |  |
|            | Pasighat   | Eastern Zone              | 01-04-1974               | 0.20                          | 149.46                           |   |  |
|            | Silli  | Eastern Zone              | 01-04-2001               | 0.03                          | 22.42                            | 0.58  |  |
|            | Yembung<br>Deopani Ph-I                            | Eastern Zone Eastern Zone | 01-04-1994<br>01-04-1986 | 2.00<br>0.75                  | 1494.64<br>560.49                |   |  |
| -          | Abhapani   | Eastern Zone              | 01-04-1986               | 0.75                          | 336.29                           |   |  |
|            | Anini/ Awapani Ph-I                                | Eastern Zone              | 01-04-1994               | 0.45                          | 112.10                           | 2.88  |  |
|            | Chini Afra   | Eastern Zone              | 01-04-2001               | 0.15                          | 186.83                           | 4.80  |  |
|            | Tafragram  | Eastern Zone              | 01-04-1984               | 0.25                          | 186.83                           |   |  |
|            | Kaho   | Eastern Zone              | 01-04-2004               | 0.01                          | 7.47                             | 0.19  |  |
|            | Kebitho  | Eastern Zone              | 02-04-2004               | 0.03                          | 22.42                            | 0.58  |  |
| -          | Thiratju   | Eastern Zone              | 01-04-1978               | 1.00                          | 747.32                           | 19.21   |  |
|            | Charju   | Eastern Zone              | 01-04-1984               | 0.60                          | 448.39                           | 11.52   |  |
|            | Total ====>  |                           |                          | 20.70                         | 15439.63                         | 396.80  |  |

|            |                        |                    |             |                               |                                  | Annexure - 4.  |
|------------|------------------------|--------------------|-------------|-------------------------------|----------------------------------|--|
|            | <b>n</b>               | Projects consid    |             |                               | 040                              |  |
|            | Depred                 | iation for plant C | ommissioned | before FY 2                   | 012                              |  |
| Sl.<br>No. | Name of Station        | Division/Zone      | Date of COD | Installed<br>Capacity<br>(MW) | Capital<br>Cost (Rs.<br>In Lakh) | Depreciation<br>Amount<br>@2.57% P.A.<br>(Rs. In Lakh)<br>for FY 2020-21 |
| 1          | Nuranang               | Western Zone       | 01-04-1996  | 6.00                          | 985.00                           | 25.31  |
| 2          | Bramdhongchung         | Western Zone       | 01-04-2008  | 0.10                          | 105.30                           | 2.71   |
| 3          | Shakti Nallah          | Western Zone       | 01-04-2008  | 0.10                          | 109.32                           | 2.81   |
| 4          | Kitpi MHS Ph-II        | Western Zone       | 01-04-2008  | 3.00                          | 3373.83                          | 86.71  |
| 5          | Chellengkang Ph-II     | Western Zone       | 01-04-2008  | 0.03                          | 54.94                            | 1.41   |
| 6          | Bongleng               | Western Zone       | 01-04-2009  | 0.10                          | 114.27                           | 2.94   |
|            | Thimbu                 | Western Zone       | 01-04-2009  | 0.10                          | 126.91                           | 3.26   |
| 8          | Bramdhongchung Ph-II   | Western Zone       | 01-04-2010  | 0.10                          | 134.71                           | 3.46   |
|            | Tsechu Nallah          | Western Zone       | 01-04-2010  | 0.10                          | 157.75                           | 4.05   |
| 10         | Sessa                  | Western Zone       | 01-04-1992  | 1.50                          | 131.00                           | 3.37   |
| 11         | Domkhrong              | Western Zone       | 01-04-2008  | 2.00                          | 2845.77                          | 73.14  |
|            | Sinchung               | Western Zone       | 01-04-2008  | 0.05                          | 54.48                            | 1.40   |
|            | Ankaling               | Western Zone       | 01-04-2009  | 0.03                          | 66.35                            | 1.71   |
|            | Khet                   | Western Zone       | 01-04-2009  | 0.10                          | 144.27                           | 3.71   |
|            | Dikshi                 | Western Zone       | 01-04-2010  | 0.03                          | 56.86                            | 1.46   |
|            | Khadiyabey             | Western Zone       | 01-04-2011  | 0.20                          | 282.91                           | 7.27   |
|            | Pacha MHS              | Western Zone       | 01-04-2008  | 3.00                          | 3992.80                          | 102.61   |
|            | Pakoti                 | Western Zone       | 01-04-2010  | 0.10                          | 138.37                           | 3.56   |
|            | Patta Nallah           | Western Zone       | 01-04-2010  | 0.10                          | 140.80                           | 3.62   |
|            | Watte Mame             | Western Zone       | 01-04-2010  | 0.05                          | 145.50                           | 3.74   |
|            | Kade Nallah            | Western Zone       | 01-04-2010  | 0.05                          | 95.09                            | 2.44   |
|            | Koye                   | Western Zone       | 01-04-2009  | 0.05                          | 98.00                            | 2.52   |
|            | Chambang               | Western Zone       | 01-04-2009  | 0.03                          | 109.55                           | 2.82   |
|            | Paya MHS at Hiya       | Western Zone       | 01-04-2011  | 0.10                          | 237.93                           | 6.11   |
| 25         | Sippi                  | Western Zone       | 01-04-2008  | 4.00                          | 3832.92                          | 98.51  |
|            | Pinto Karo MHS         | Western Zone       | 01-04-2011  | 0.03                          | 83.11                            | 2.14   |
|            | Sikin Karo             | Western Zone       | 01-04-2011  | 0.20                          | 387.61                           | 9.96   |
|            | Sinyum Koro            | Western Zone       | 01-04-2011  | 0.10                          | 197.06                           | 5.06   |
|            | Kojin Nallah           | Western Zone       | 01-04-2011  | 0.10                          | 184.35                           | 4.74   |
|            | Kambang                | Eastern Zone       | 01-04-2008  | 6.00                          | 3832.92                          | 98.51  |
|            | Liromoba               | Eastern Zone       | 01-04-2008  | 2.00                          | 3073.73                          | 78.99  |
|            | Yingko Sikong at Rapum | Eastern Zone       | 01-04-2009  | 0.05                          | 40.14                            | 1.03   |
|            | Angu                   | Eastern Zone       | 01-04-2010  | 0.05                          | 39.46                            | 1.01   |
|            | Solegomang MHS         | Eastern Zone       | 01-04-2011  | 0.05                          | 88.83                            | 2.28   |
|            | Sirnyuk                | Eastern Zone       | 01-04-1996  | 2.00                          | 2464.32                          | 63.33  |
|            | Kopu at Tuting         | Eastern Zone       | 01-04-2007  | 0.25                          | 259.60                           | 6.67   |
|            | Silingri               | Eastern Zone       | 01-04-2008  | 0.05                          | 101.68                           | 2.61   |
|            | Singa                  | Eastern Zone       | 01-04-2008  | 0.03                          | 122.98                           | 3.16   |
|            | Ngaming                | Eastern Zone       | 01-04-2008  | 0.05                          | 103.04                           | 2.65   |
| -          | Sika                   | Eastern Zone       | 01-04-2008  | 0.02                          | 50.00                            | 1.29   |
| -          | Mayung                 | Eastern Zone       | 01-04-2009  | 0.01                          | 22.22                            | 0.57   |
|            | Gosang                 | Eastern Zone       | 01-04-2011  | 0.50                          | 826.00                           | 21.23  |
|            | Kote MHS               | Eastern Zone       | 01-04-2011  | 0.05                          | 96.70                            | 2.49   |
|            | Sijen MHS at Adi pasi  | Eastern Zone       | 01-04-2011  | 0.05                          | 91.41                            | 2.35   |
|            | Pyabung MHS            | Eastern Zone       | 01-04-2011  | 0.03                          | 74.13                            | 1.91   |
|            | Total ====>            | 1                  |             | 32.64                         | 29673.92                         | 762.63   |

|            |                        |                        |              |                               |                                  | Annexure - 4.  |
|------------|------------------------|------------------------|--------------|-------------------------------|----------------------------------|--|
|            |                        | Projects consid        |              |                               | 0.4.0                            |  |
|            | Depreci                | ation for plant C      | ommissioned  | before FY 2                   | 012                              |  |
| Sl.<br>No. | Name of Station        | Division/Zone          | Date of COD  | Installed<br>Capacity<br>(MW) | Capital<br>Cost (Rs.<br>In Lakh) | Depreciation<br>Amount<br>@2.57% P.A.<br>(Rs. In Lakh)<br>for FY 2020-21 |
| 46         | Rina                   | Eastern Zone           | 01-04-2008   | 2.00                          | 3024.45                          | 77.73  |
| 47         | Deopani Ph-II          | Eastern Zone           | 01-04-2004   | 0.75                          | 290.10                           | 7.46   |
| 48         | Tah Ahfra Ph-I & Ph-II | Eastern Zone           | 01-04-2009   | 0.10                          | 49.63                            | 1.28   |
| 49         | Echi Ahfra             | Eastern Zone           | 01-04-2005   | 0.40                          | 484.79                           | 12.46  |
| 50         | Awapani Ph-II          | Eastern Zone           | 01-04-2005   | 0.50                          | 714.46                           | 18.36  |
| 51         | Echito Nallah          | Eastern Zone           | 01-04-2010   | 0.04                          | 74.04                            | 1.90   |
| 52         | Rupapani               | Eastern Zone           | 01-04-2010   | 0.04                          | 74.65                            | 1.92   |
| 53         | Chu Nallah             | Eastern Zone           | 01-04-2011   | 0.03                          | 73.84                            | 1.90   |
| 54         | Mati Nallah            | Eastern Zone           | 03-04-2004   | 0.50                          | 598.56                           | 15.38  |
| 55         | Yapak Nallah           | Eastern Zone           | 01-04-2005   | 0.20                          | 317.71                           | 8.17   |
|            | Teepani                | Eastern Zone           | 01-04-2009   | 0.50                          | 675.47                           | 17.36  |
|            | KrawtiNallah           | Eastern Zone           | 02-04-2009   | 0.10                          | 119.07                           | 3.06   |
|            | Hathipani              | Eastern Zone           | 03-04-2009   | 0.10                          | 120.44                           | 3.10   |
| 59         | Tha Nallah             | Eastern Zone           | 04-04-2009   | 0.10                          | 122.99                           | 3.16   |
|            | Maipani                | Eastern Zone           | 01-04-2010   | 0.06                          | 98.14                            | 2.52   |
|            | Ashapani               | Eastern Zone           | 02-04-2011   | 0.06                          | 99.98                            | 2.57   |
| -          | Langpani               | Eastern Zone           | 01-04-2011   | 0.40                          | 543.91                           | 13.98  |
| 63         | Tissue                 | Eastern Zone           | 01-04-1986   | 0.40                          | 617.00                           | 15.86  |
| 64         | Jongkey Nallah         | Eastern Zone           | 01-04-2011   | 0.03                          | 144.50                           | 3.71   |
|            | Ngonalo at Vijaynagar  | Eastern Zone           | 01-04-2010   | 0.10                          | 408.45                           | 10.50  |
| 66         | Tinning                | Eastern Zone           | 01-04-2010   | 0.06                          | 99.98                            | 2.57   |
|            | Chicklong              | Eastern Zone           | 02-04-2011   | 0.15                          | 98.14                            | 2.52   |
|            | Sumhok Nallah          | Eastern Zone           | 01-04-2009   | 0.10                          | 198.90                           | 5.11   |
| 69         | Tahin Nallah           | Eastern Zone           | 02-04-2011   | 0.10                          | 222.98                           | 5.73   |
|            | Sub-Total              |                        |              | 6.82                          |                                  |  |
|            | Total                  |                        |              |                               | 38946.10                         | 1000.91  |
|            |                        |                        |              |                               |                                  | Annexure - 5.  |
|            |                        | <b>Projects consid</b> | ered by comm | ission                        |                                  |  |
|            | Depred                 | iation for plant (     | Commissioned | after FY 20                   | 12                               |  |
| Sl.<br>No. | Name of Station        | Division/Zone          | Date of COD  | Installed<br>Capacity<br>(MW) | Capital<br>Cost (Rs.<br>In Lakh) | Depreciation Amount @5.28% P.A. (Rs. In Lakh) for FY 2020-21             |
| 1          | Mago MHS               | Western Zone           | 01-04-2014   | 0.10                          | 140.44                           | 6.67   |
| 2          | Ayingmuri MHS          | Western Zone           | 01-04-2011   | 0.25                          | 175.00                           | 8.32   |
| 3          | Limeking MHS           | Western Zone           | 01-04-2011   | 0.03                          | 21.00                            | 1.00   |
| 4          | Mechuka                | Eastern Zone           | 01-04-2012   | 0.15                          | 113.02                           | 5.37   |
| 5          | Sirikorang MHS         | Eastern Zone           | 01-04-2008   | 0.50                          | 646.11                           | 30.70  |
| 6          | Awapani at Gepuline    | Eastern Zone           | 01-04-2018   | 0.50                          | 714.46                           | 33.95  |
| 7          | Dura Nallah            | Western Zone           | 01-04-2009   | 0.50                          | 404.87                           | 19.24  |
| 8          | Kachopani MHS          | Eastern Zone           | 02-04-2009   | 0.20                          | 393.33                           | 18.69  |
| 9          | Jigaon                 | Eastern Zone           | 01-04-2011   | 0.10                          | 71.85                            | 3.41   |
| 10         | Zhongdongrong          | Western Zone           | 01-04-2011   | 1.00                          | 1406.44                          | 66.83  |
|            | Total                  |                        |              | 3.33                          | 4086.52                          | 194.19   |
|            |                        |                        |              | 3.03                          | ,                                |  |

|            |                     |                   |                |                            | Annexure - 6.                          |
|------------|---------------------|-------------------|----------------|----------------------------|--|
|            |                     | cts not consider  |                | ion                        |  |
|            | С                   | alculation of ROE | the FY 2020-21 |                            |  |
| Sl.<br>No. | Name of Station     | Division/Zone     | Date of COD    | Capital Cost<br>IN (Lakhs) | RoE (Rs. In<br>Lakh) for FY<br>2020-21 |
| 1          | Kitpi Ph-I          | Western Zone      | 01-04-1977     | 1120.98                    | 59.05                                  |
| 2          | T. Gompa            | Western Zone      | 01-04-2001     | 37.37                      | 1.97                                   |
| 3          | Chellengkang Ph-I   | Western Zone      | 01-04-2004     | 22.42                      | 1.18                                   |
| 4          | Rahung              | Western Zone      | 01-04-1972     | 560.49                     | 29.53                                  |
| 5          | Dirang              | Western Zone      | 01-04-1977     | 1494.64                    | 78.74                                  |
| 6          | Saktangrong         | Western Zone      | 01-04-2011     | 224.20                     | 11.81                                  |
| 7          | Rupa                | Western Zone      | 01-04-1997     | 149.46                     | 7.87                                   |
| 8          | Dokumpani           | Western Zone      | 01-04-2000     | 22.42                      | 1.18                                   |
| 9          | Seppa               | Western Zone      | 01-04-1980     | 224.20                     | 11.81                                  |
| 10         | Pakke Kessang       | Western Zone      | 01-04-2001     | 22.42                      | 1.18                                   |
| 11         | Patte MHS at Tali   | Western Zone      | 01-04-2004     | 22.42                      | 1.18                                   |
| 12         | Mai Ph-I            | Western Zone      | 01-04-1982     | 1494.64                    | 78.74                                  |
| 13         | Mai Ph-II           | Western Zone      | 01-04-1982     | 747.32                     | 39.37                                  |
| 14         | Tago                | Western Zone      | 01-04-1992     | 3362.94                    | 177.16                                 |
| 15         | Maro                | Western Zone      | 01-04-2002     | 22.42                      | 1.18                                   |
| 16         | Dulom (Daporijo)    | Western Zone      | 01-04-1981     | 269.04                     | 14.17                                  |
| 17         | Pagi (Basar)        | Eastern Zone      | 01-04-1972     | 74.73                      | 3.94                                   |
| 18         | Along               | Eastern Zone      | 01-04-1975     | 224.20                     | 11.81                                  |
| 19         | Ego-Echi (Dali)     | Eastern Zone      | 01-04-1987     | 298.93                     | 15.75                                  |
| 20         | Yomcha              | Eastern Zone      | 01-04-2001     | 37.37                      | 1.97                                   |
| 21         | Beye                | Eastern Zone      | 01-04-2004     | 22.42                      | 1.18                                   |
| 22         | Yingkiong Ph-I      | Eastern Zone      | 01-04-1980     | 112.10                     | 5.91                                   |
| 23         | Yingkiong Ph-II     | Eastern Zone      | 01-04-1992     | 149.46                     | 7.87                                   |
| 24         | Sikut/ Tuting       | Eastern Zone      | 01-04-1984     | 74.73                      | 3.94                                   |
| 25         | Selli at Geku       | Eastern Zone      | 01-04-1994     | 373.66                     | 19.68                                  |
| 26         | Pasighat            | Eastern Zone      | 01-04-1974     | 149.46                     | 7.87                                   |
| 27         | Silli               | Eastern Zone      | 01-04-2001     | 22.42                      | 1.18                                   |
| 28         | Yembung             | Eastern Zone      | 01-04-1994     | 1494.64                    | 78.74                                  |
| 29         | Deopani Ph-I        | Eastern Zone      | 01-04-1986     | 560.49                     | 29.53                                  |
| 30         | Abhapani            | Eastern Zone      | 01-04-1994     | 336.29                     | 17.72                                  |
| 31         | Anini/ Awapani Ph-I | Eastern Zone      | 01-04-1994     | 112.10                     | 5.91                                   |
| 32         | Chini Afra          | Eastern Zone      | 01-04-2001     | 186.83                     | 9.84                                   |
| 33         | Tafragram           | Eastern Zone      | 01-04-1984     | 186.83                     | 9.84                                   |
| 34         | Kaho                | Eastern Zone      | 01-04-2004     | 7.47                       | 0.39                                   |
| 35         | Kebitho             | Eastern Zone      | 02-04-2004     | 22.42                      | 1.18                                   |
| 36         | Thiratju            | Eastern Zone      | 01-04-1978     | 747.32                     | 39.37                                  |
| 37         | Charju              | Eastern Zone      | 01-04-1984     | 448.39                     | 23.62                                  |
|            | Total =====>        |                   |                | 15439.63                   | 813.36                                 |

|            | D.  |               |            |                               | Annexure - 7.                          |  |  |  |  |  |  |  |  |
|------------|---|---------------|------------|-------------------------------|--|--|--|--|--|--|--|--|--|
|            | Projects considered by commission  ROE for FY 2020-21 |               |            |                               |  |  |  |  |  |  |  |  |  |
| Sl.<br>No. | Name of Station                                       | Division/Zone | COD        | Capital Cost<br>(Rs. In Lakh) | RoE (Rs. In<br>Lakh) for FY<br>2020-21 |  |  |  |  |  |  |  |  |
| 1          | Nuranang  | Western Zone  | 01-04-1996 | 985.00                        | 51.89                                  |  |  |  |  |  |  |  |  |
| 2          | Bramdhongchung  | Western Zone  | 01-04-2008 | 105.30                        | 5.55                                   |  |  |  |  |  |  |  |  |
| 3          | Shakti Nallah   | Western Zone  | 01-04-2008 | 109.32                        | 5.76                                   |  |  |  |  |  |  |  |  |
| 4          | Kitpi MHS Ph-II                                       | Western Zone  | 01-04-2008 | 3373.83                       | 177.73                                 |  |  |  |  |  |  |  |  |
| 5          | Chellengkang Ph-II                                    | Western Zone  | 01-04-2008 | 54.94                         | 2.89                                   |  |  |  |  |  |  |  |  |
| 6          | Bongleng  | Western Zone  | 01-04-2009 | 114.27                        | 6.02                                   |  |  |  |  |  |  |  |  |
| 7          | Thimbu  | Western Zone  | 01-04-2009 | 126.91                        | 6.69                                   |  |  |  |  |  |  |  |  |
| 8          | Bramdhongchung Ph-II                                  | Western Zone  | 01-04-2010 | 134.71                        | 7.10                                   |  |  |  |  |  |  |  |  |
| 9          | Tsechu Nallah   | Western Zone  | 01-04-2010 | 157.75                        | 8.31                                   |  |  |  |  |  |  |  |  |
| 10         | Sessa   | Western Zone  | 01-04-1992 | 131.00                        | 6.90                                   |  |  |  |  |  |  |  |  |
| 11         | Domkhrong   | Western Zone  | 01-04-2008 | 2845.77                       | 149.92                                 |  |  |  |  |  |  |  |  |
| 12         | Sinchung  | Western Zone  | 01-04-2008 | 54.48                         | 2.87                                   |  |  |  |  |  |  |  |  |
| 13         | Ankaling  | Western Zone  | 01-04-2009 | 66.35                         | 3.50                                   |  |  |  |  |  |  |  |  |
| 14         | Khet  | Western Zone  | 01-04-2009 | 144.27                        | 7.60                                   |  |  |  |  |  |  |  |  |
| 15         | Dikshi  | Western Zone  | 01-04-2010 | 56.86                         | 3.00                                   |  |  |  |  |  |  |  |  |
| 16         | Khadiyabey  | Western Zone  | 01-04-2011 | 282.91                        | 14.90                                  |  |  |  |  |  |  |  |  |
| 17         | Pacha MHS   | Western Zone  | 01-04-2008 | 3992.80                       | 210.34                                 |  |  |  |  |  |  |  |  |
| 18         | Pakoti  | Western Zone  | 01-04-2010 | 138.37                        | 7.29                                   |  |  |  |  |  |  |  |  |
| 19         | Patta Nallah  | Western Zone  | 01-04-2010 | 140.80                        | 7.42                                   |  |  |  |  |  |  |  |  |
| 20         | Watte Mame  | Western Zone  | 01-04-2010 | 145.50                        | 7.66                                   |  |  |  |  |  |  |  |  |
| 21         | Kade Nallah   | Western Zone  | 01-04-2010 | 95.09                         | 5.01                                   |  |  |  |  |  |  |  |  |
| 22         | Koye  | Western Zone  | 01-04-2009 | 98.00                         | 5.16                                   |  |  |  |  |  |  |  |  |
| 23         | Chambang  | Western Zone  | 01-04-2009 | 109.55                        | 5.77                                   |  |  |  |  |  |  |  |  |
| 24         | Paya MHS at Hiya                                      | Western Zone  | 01-04-2011 | 237.93                        | 12.53                                  |  |  |  |  |  |  |  |  |
|            | Sippi   | Western Zone  | 01-04-2008 | 3832.92                       | 201.92                                 |  |  |  |  |  |  |  |  |
| 26         | Pinto Karo MHS  | Western Zone  | 01-04-2011 | 83.11                         | 4.38                                   |  |  |  |  |  |  |  |  |
| 27         | Sikin Karo  | Western Zone  | 01-04-2011 | 387.61                        | 20.42                                  |  |  |  |  |  |  |  |  |
| 28         | Sinyum Koro   | Western Zone  | 01-04-2011 | 197.06                        | 10.38                                  |  |  |  |  |  |  |  |  |
| 29         | Kojin Nallah  | Western Zone  | 01-04-2011 | 184.35                        | 9.71                                   |  |  |  |  |  |  |  |  |
| 30         | Kambang   | Eastern Zone  | 01-04-2008 | 3832.92                       | 201.92                                 |  |  |  |  |  |  |  |  |
| 31         | Liromoba  | Eastern Zone  | 01-04-2008 | 3073.73                       | 161.92                                 |  |  |  |  |  |  |  |  |
| 32         | Yingko Sikong at Rapum                                | Eastern Zone  | 01-04-2009 | 40.14                         | 2.11                                   |  |  |  |  |  |  |  |  |
|            | Angu  | Eastern Zone  | 01-04-2010 | 39.46                         | 2.08                                   |  |  |  |  |  |  |  |  |
|            | Solegomang MHS  | Eastern Zone  | 01-04-2011 | 88.83                         | 4.68                                   |  |  |  |  |  |  |  |  |
|            | Sirnyuk   | Eastern Zone  | 01-04-1996 | 2464.32                       | 129.82                                 |  |  |  |  |  |  |  |  |
| 36         | Kopu at Tuting  | Eastern Zone  | 01-04-2007 | 259.60                        | 13.68                                  |  |  |  |  |  |  |  |  |
|            | Silingri  | Eastern Zone  | 01-04-2008 | 101.68                        | 5.36                                   |  |  |  |  |  |  |  |  |
| 38         | Singa   | Eastern Zone  | 01-04-2008 | 122.98                        | 6.48                                   |  |  |  |  |  |  |  |  |
| 39         | Ngaming   | Eastern Zone  | 01-04-2008 | 103.04                        | 5.43                                   |  |  |  |  |  |  |  |  |
|            | Sika  | Eastern Zone  | 01-04-2008 | 50.00                         | 2.63                                   |  |  |  |  |  |  |  |  |
| 41         | Mayung  | Eastern Zone  | 01-04-2009 | 22.22                         | 1.17                                   |  |  |  |  |  |  |  |  |
|            | Gosang  | Eastern Zone  | 01-04-2011 | 826.00                        | 43.51                                  |  |  |  |  |  |  |  |  |
|            | Sub T   | otal ====>    |            | 29411.68                      | 1549.41                                |  |  |  |  |  |  |  |  |

|            | Annexure - 7. <b>Projects considered by commission</b> |               |            |                               |  |  |  |  |  |  |  |  |  |
|------------|--|---------------|------------|-------------------------------|--|--|--|--|--|--|--|--|--|
|            | Projects considered by commission  ROE for FY 2020-21  |               |            |                               |  |  |  |  |  |  |  |  |  |
|            |  | RUE for FY    | 2020-21    |                               | D 7 (D 7                               |  |  |  |  |  |  |  |  |
| Sl.<br>No. | Name of Station  | Division/Zone | COD        | Capital Cost<br>(Rs. In Lakh) | RoE (Rs. In<br>Lakh) for FY<br>2020-21 |  |  |  |  |  |  |  |  |
|            | Kote MHS   | Eastern Zone  | 01-04-2011 | 96.70                         | 5.09                                   |  |  |  |  |  |  |  |  |
|            | Sijen MHS at Adi pasi                                  | Eastern Zone  | 01-04-2011 | 91.41                         | 4.82                                   |  |  |  |  |  |  |  |  |
| 45         | Pyabung MHS  | Eastern Zone  | 01-04-2011 | 74.13                         | 3.91                                   |  |  |  |  |  |  |  |  |
| 46         | Rina   | Eastern Zone  | 01-04-2008 | 3024.45                       | 159.33                                 |  |  |  |  |  |  |  |  |
| 47         | Deopani Ph-II  | Eastern Zone  | 01-04-2004 | 290.10                        | 15.28                                  |  |  |  |  |  |  |  |  |
| 48         | Tah Ahfra Ph-I & Ph-II                                 | Eastern Zone  | 01-04-2009 | 49.63                         | 2.61                                   |  |  |  |  |  |  |  |  |
| 49         | Echi Ahfra   | Eastern Zone  | 01-04-2005 | 484.79                        | 25.54                                  |  |  |  |  |  |  |  |  |
| 50         | Awapani Ph-II  | Eastern Zone  | 01-04-2005 | 714.46                        | 37.64                                  |  |  |  |  |  |  |  |  |
| 51         | Echito Nallah  | Eastern Zone  | 01-04-2010 | 74.04                         | 3.90                                   |  |  |  |  |  |  |  |  |
| 52         | Rupapani   | Eastern Zone  | 01-04-2010 | 74.65                         | 3.93                                   |  |  |  |  |  |  |  |  |
| 53         | Chu Nallah   | Eastern Zone  | 01-04-2011 | 73.84                         | 3.89                                   |  |  |  |  |  |  |  |  |
| 54         | Mati Nallah  | Eastern Zone  | 03-04-2004 | 598.56                        | 31.53                                  |  |  |  |  |  |  |  |  |
| 55         | Yapak Nallah   | Eastern Zone  | 01-04-2005 | 317.71                        | 16.74                                  |  |  |  |  |  |  |  |  |
| 56         | Teepani  | Eastern Zone  | 01-04-2009 | 675.47                        | 35.58                                  |  |  |  |  |  |  |  |  |
| 57         | KrawtiNallah   | Eastern Zone  | 02-04-2009 | 119.07                        | 6.27                                   |  |  |  |  |  |  |  |  |
|            | Hathipani  | Eastern Zone  | 03-04-2009 | 120.44                        | 6.34                                   |  |  |  |  |  |  |  |  |
| -          | Tha Nallah   | Eastern Zone  | 04-04-2009 | 122.99                        | 6.48                                   |  |  |  |  |  |  |  |  |
| 60         | Maipani  | Eastern Zone  | 01-04-2010 | 98.14                         | 5.17                                   |  |  |  |  |  |  |  |  |
| 61         | Ashapani   | Eastern Zone  | 02-04-2011 | 99.98                         | 5.27                                   |  |  |  |  |  |  |  |  |
| 62         | Langpani   | Eastern Zone  | 01-04-2011 | 543.91                        | 28.65                                  |  |  |  |  |  |  |  |  |
| 63         | Tissue   | Eastern Zone  | 01-04-1986 | 617.00                        | 32.50                                  |  |  |  |  |  |  |  |  |
| 64         | Jongkey Nallah   | Eastern Zone  | 01-04-2011 | 144.50                        | 7.61                                   |  |  |  |  |  |  |  |  |
| 65         | Ngonalo at Vijaynagar                                  | Eastern Zone  | 01-04-2010 | 408.45                        | 21.52                                  |  |  |  |  |  |  |  |  |
| 66         | Tinning  | Eastern Zone  | 01-04-2010 | 99.98                         | 5.27                                   |  |  |  |  |  |  |  |  |
|            | Chicklong  | Eastern Zone  | 02-04-2011 | 98.14                         | 5.17                                   |  |  |  |  |  |  |  |  |
| 68         | Sumhok Nallah  | Eastern Zone  | 01-04-2009 | 198.90                        | 10.48                                  |  |  |  |  |  |  |  |  |
| 69         | Tahin Nallah   | Eastern Zone  | 02-04-2011 | 222.98                        | 11.75                                  |  |  |  |  |  |  |  |  |
| 70         | Mago MHS   | Western Zone  | 01-04-2014 | 140.44                        | 7.40                                   |  |  |  |  |  |  |  |  |
| 71         | Ayingmuri MHS  | Western Zone  | 01-04-2011 | 175.00                        | 9.22                                   |  |  |  |  |  |  |  |  |
| 72         | Limeking MHS   | Western Zone  | 01-04-2011 | 21.00                         | 1.11                                   |  |  |  |  |  |  |  |  |
|            | Mechuka  | Eastern Zone  | 01-04-2012 | 113.02                        | 5.95                                   |  |  |  |  |  |  |  |  |
| 74         | Sirikorang MHS   | Eastern Zone  | 01-04-2008 | 646.11                        | 34.04                                  |  |  |  |  |  |  |  |  |
|            | Awapani at Gepuline                                    | Eastern Zone  | 01-04-2018 | 714.46                        | 37.64                                  |  |  |  |  |  |  |  |  |
|            | Dura Nallah  | Western Zone  | 01-04-2009 | 404.87                        | 21.33                                  |  |  |  |  |  |  |  |  |
| 77         | Kachopani MHS  | Eastern Zone  | 02-04-2009 | 393.33                        | 20.72                                  |  |  |  |  |  |  |  |  |
|            | Jigaon   | Eastern Zone  | 01-04-2011 | 71.85                         | 3.79                                   |  |  |  |  |  |  |  |  |
|            | Zhongdongrong  | Western Zone  | 01-04-2011 | 1406.44                       | 74.09                                  |  |  |  |  |  |  |  |  |
|            | Sub Total ====> 13620.94 717.5                         |               |            |                               |  |  |  |  |  |  |  |  |  |
|            | To   | otal          |            | 43032.62                      | 2266.97                                |  |  |  |  |  |  |  |  |

|            |                      |                    |                            | Annexure - 8.                                    |
|------------|----------------------|--------------------|----------------------------|--|
|            |                      | sidered by commis  |                            |  |
|            | O&M C                | ost for FY 2020-21 |                            |  |
| Sl.<br>No. | Name of Station      | Division/Zone      | Installed<br>Capacity (MW) | O & M COST<br>for<br>FY 2020-21<br>(Rs. In Lakh) |
| 1          | Chellengkang Ph-I    | Western Zone       | 0.03                       | 1.28   |
| 2          | Chellengkang Ph-II   | Western Zone       | 0.03                       | 1.28   |
| 3          | Shakti Nallah        | Western Zone       | 0.10                       | 4.25   |
| 4          | Thimbu               | Western Zone       | 0.10                       | 4.25   |
| 5          | Khet                 | Western Zone       | 0.10                       | 4.25   |
| 6          | Tsechu Nallah        | Western Zone       | 0.10                       | 4.25   |
| 7          | Mago MHS             | Western Zone       | 0.10                       | 4.25   |
| 8          | Nuranang             | Western Zone       | 6.00                       | 191.38   |
| 9          | Kitpi Ph-I           | Western Zone       | 1.50                       | 63.81  |
| 10         | Kitpi MHS Ph-II      | Western Zone       | 3.00                       | 127.61   |
| 11         | T. Gompa             | Western Zone       | 0.05                       | 2.12   |
| 12         | Bongleng             | Western Zone       | 0.10                       | 4.25   |
| 13         | Bramdhongchung       | Western Zone       | 0.10                       | 4.25   |
| 14         | Bramdhongchung Ph-II | Western Zone       | 0.10                       | 4.25   |
| 15         | Rahung               | Western Zone       | 0.75                       | 31.91  |
| 16         | Dirang               | Western Zone       | 2.00                       | 85.07  |
| 17         | Saktangrong          | Western Zone       | 0.30                       | 12.76  |
| 18         | Zhongdongrong        | Western Zone       | 1.00                       | 42.54  |
| 19         | Sessa                | Western Zone       | 1.50                       | 63.81  |
| 20         | Rupa                 | Western Zone       | 0.20                       | 8.51   |
| 21         | Dokumpani            | Western Zone       | 0.03                       | 1.28   |
| 22         | Domkhrong            | Western Zone       | 2.00                       | 85.07  |
| 23         | Sinchung             | Western Zone       | 0.03                       | 2.12   |
| 24         | Ankaling             | Western Zone       | 0.03                       | 1.28   |
| 25         | Dikshi               | Western Zone       | 0.03                       | 1.28   |
| 26         | Khadiyabey           | Western Zone       | 0.20                       | 8.51   |
| 27         | Jigaon               | Western Zone       | 0.10                       | 4.25   |
| 28         | Seppa                | Western Zone       | 0.30                       | 12.76  |
| 29         | Pakke Kessang        | Western Zone       | 0.03                       | 1.28   |
| 30         | Pacha MHS            | Western Zone       | 3.00                       | 127.61   |
| 31         | Pakoti               | Western Zone       | 0.10                       | 4.25   |
| 32         | Patta Nallah         | Western Zone       | 0.10                       | 4.25   |
| 33         | Watte Mame           | Western Zone       | 0.05                       | 2.12   |
| 34         | Kade Nallah          | Western Zone       | 0.05                       | 2.12   |
| 35         | Koye                 | Western Zone       | 0.05                       | 2.12   |
| 36         | Paya MHS at Hiya     | Western Zone       | 0.10                       | 4.25   |
| 37         | Patte MHS at Tali    | Western Zone       | 0.03                       | 1.28   |
| 38         | Chambang             | Western Zone       | 0.03                       | 1.28   |
| 39         | Mai Ph-I             | Western Zone       | 2.00                       | 85.07  |
| 40         | Mai Ph-II            | Western Zone       | 1.00                       | 42.54  |
| 41         | Tago                 | Western Zone       | 4.50                       | 191.43   |
| 42         | Maro                 | Western Zone       | 0.03                       | 1.28   |
|            | Sub Total            |                    | 30.95                      | 1253.55  |

|            |                        |                            |                            | Annexure - 8.                                    |
|------------|------------------------|----------------------------|----------------------------|--|
|            |                        | onsidered by commis        | ssion                      |  |
|            | O&M                    | <b>Cost for FY 2020-21</b> |                            |  |
| Sl.<br>No. | Name of Station        | Division/Zone              | Installed<br>Capacity (MW) | O & M COST<br>for<br>FY 2020-21<br>(Rs. In Lakh) |
| 43         | Sippi                  | Western Zone               | 4.00                       | 170.16   |
| 44         | Pinto Karo MHS         | Western Zone               | 0.03                       | 1.28   |
| 45         | Sikin Karo             | Western Zone               | 0.20                       | 8.51   |
| 46         | Sinyum Koro            | Western Zone               | 0.10                       | 4.25   |
| 47         | Dulom (Daporijo)       | Western Zone               | 0.40                       | 17.01  |
| 48         | Ayingmuri MHS          | Western Zone               | 0.25                       | 10.64  |
| 49         | Limeking MHS           | Western Zone               | 0.03                       | 1.28   |
| 50         | Kojin Nallah           | Western Zone               | 0.10                       | 4.25   |
| 51         | Pagi (Basar)           | Easter Zone                | 0.10                       | 4.25   |
| 52         | Along                  | Easter Zone                | 0.30                       | 17.01  |
| 53         | Ego-Echi (Dali)        | Easter Zone                | 0.40                       | 17.01  |
| 54         | Mechuka                | Easter Zone                | 0.15                       | 6.39   |
| 55         | Yomcha                 | Easter Zone                | 0.05                       | 2.12   |
| 56         | Beye                   | Easter Zone                | 0.03                       | 1.28   |
| 57         | Kambang                | Easter Zone                | 6.00                       | 191.38   |
| 58         | Liromoba               | Easter Zone                | 2.00                       | 85.07  |
| 59         | Yingko Sikong at Rapum | Easter Zone                | 0.05                       | 2.12   |
| 60         | Angu                   | Easter Zone                | 0.05                       | 2.12   |
| 61         | Solegomang MHS         | Easter Zone                | 0.05                       | 2.12   |
| 62         | Sirikorang MHS         | Easter Zone                | 0.50                       | 21.27  |
| 63         | Yingkiong Ph-I         | Easter Zone                | 0.15                       | 6.39   |
| 64         | Yingkiong Ph-II        | Easter Zone                | 0.20                       | 8.51   |
| 65         | Sikut/ Tuting          | Easter Zone                | 0.10                       | 4.25   |
| 66         | Silli at Geku          | Easter Zone                | 0.50                       | 21.27  |
| 67         | Sirnyuk                | Easter Zone                | 2.00                       | 85.07  |
| 68         | Kopu at Tuting         | Easter Zone                | 0.25                       | 10.64  |
| 69         | Silingri               | Easter Zone                | 0.05                       | 2.12   |
| 70         | Singa                  | Easter Zone                | 0.03                       | 1.28   |
| 71         | Ngaming                | Easter Zone                | 0.05                       | 2.12   |
| 72         | Sika                   | Easter Zone                | 0.02                       | 0.85   |
| 73         | Mayung                 | Easter Zone                | 0.01                       | 0.21   |
| 74         | Gosang                 | Easter Zone                | 0.50                       | 21.27  |
| 75         | Kote MHS               | Easter Zone                | 0.05                       | 2.12   |
| 76         | Sijen MHS at Adi pasi  | Easter Zone                | 0.05                       | 2.12   |
| 77         | Pyabung MHS            | Easter Zone                | 0.03                       | 1.28   |
| 78         | Yembung                | Easter Zone                | 2.00                       | 85.07  |
| 79         | Pasighat               | Easter Zone                | 0.20                       | 8.51   |
| 80         | Silli                  | Easter Zone                | 0.03                       | 1.28   |
| 81         | Rina                   | Easter Zone                | 2.00                       | 85.07  |
| 82         | Deopani Ph-I           | Easter Zone                | 0.75                       | 31.91  |
|            | Sub Total              |                            | 23.74                      | 950.89   |
|            |                        |                            |                            |  |
|            |                        |                            | ı                          |  |

|            |  |                    |                            | Annexure - 8.                                    |  |  |  |  |  |  |  |  |
|------------|--|--------------------|----------------------------|--|--|--|--|--|--|--|--|--|
|            | Projects considered by commission  O&M Cost for FY 2020-21 |                    |                            |  |  |  |  |  |  |  |  |  |
|            | O&M Co   | ost for FY 2020-21 |                            |  |  |  |  |  |  |  |  |  |
| Sl.<br>No. | Name of Station  | Division/Zone      | Installed<br>Capacity (MW) | O & M COST<br>for<br>FY 2020-21<br>(Rs. In Lakh) |  |  |  |  |  |  |  |  |
| 83         | Deopani Ph-II  | Easter Zone        | 0.75                       | 31.91  |  |  |  |  |  |  |  |  |
| 84         | Abhapani   | Easter Zone        | 0.45                       | 19.15  |  |  |  |  |  |  |  |  |
| 85         | Anini/ Awapani Ph-I  | Easter Zone        | 0.15                       | 6.39   |  |  |  |  |  |  |  |  |
| 86         | Awapani Ph-II  | Easter Zone        | 0.50                       | 21.27  |  |  |  |  |  |  |  |  |
| 87         | Awapani at Gepuline  | Easter Zone        | 0.50                       | 21.27  |  |  |  |  |  |  |  |  |
| 88         | Tah Ahfra Ph-I & Ph-II                                     | Easter Zone        | 0.10                       | 2.22   |  |  |  |  |  |  |  |  |
| 89         | Chini Afra   | Easter Zone        | 0.25                       | 10.64  |  |  |  |  |  |  |  |  |
| 90         | Echi Ahfra   | Easter Zone        | 0.40                       | 17.01  |  |  |  |  |  |  |  |  |
| 91         | Echito Nallah  | Easter Zone        | 0.04                       | 1.70   |  |  |  |  |  |  |  |  |
| 92         | Rupapani   | Easter Zone        | 0.04                       | 1.70   |  |  |  |  |  |  |  |  |
| 93         | Chu Nallah   | Easter Zone        | 0.03                       | 1.28   |  |  |  |  |  |  |  |  |
| 94         | Doorah Nallah  | Easter Zone        | 0.50                       | 21.27  |  |  |  |  |  |  |  |  |
| 95         | Tafragram  | Easter Zone        | 0.25                       | 10.64  |  |  |  |  |  |  |  |  |
| 96         | Tissue   | Easter Zone        | 0.40                       | 17.01  |  |  |  |  |  |  |  |  |
| 97         | Jongkey Nallah   | Easter Zone        | 0.03                       | 1.07   |  |  |  |  |  |  |  |  |
| 98         | Ngonalo at Vijaynagar                                      | Easter Zone        | 0.10                       | 4.25   |  |  |  |  |  |  |  |  |
| 99         | Tinning  | Easter Zone        | 0.06                       | 2.55   |  |  |  |  |  |  |  |  |
| 100        | Chicklong  | Easter Zone        | 0.15                       | 6.39   |  |  |  |  |  |  |  |  |
| 101        | Thiratju   | Easter Zone        | 1.00                       | 42.54  |  |  |  |  |  |  |  |  |
| 102        | Charju   | Easter Zone        | 0.60                       | 25.52  |  |  |  |  |  |  |  |  |
| 103        | Sumhok Nallah  | Easter Zone        | 0.10                       | 4.25   |  |  |  |  |  |  |  |  |
| 104        | Tahin Nallah   | Easter Zone        | 0.10                       | 4.25   |  |  |  |  |  |  |  |  |
| 105        | Kaho   | Easter Zone        | 0.01                       | 0.42   |  |  |  |  |  |  |  |  |
| 106        | Kebitho  | Easter Zone        | 0.03                       | 1.28   |  |  |  |  |  |  |  |  |
| 107        | Mati Nallah  | Easter Zone        | 0.50                       | 21.27  |  |  |  |  |  |  |  |  |
| 108        | Yapak Nallah   | Easter Zone        | 0.20                       | 8.51   |  |  |  |  |  |  |  |  |
| 109        | Teepani  | Easter Zone        | 0.50                       | 21.27  |  |  |  |  |  |  |  |  |
| 110        | Krawti Nallah  | Easter Zone        | 0.10                       | 4.25   |  |  |  |  |  |  |  |  |
| 111        | Hathipani  | Easter Zone        | 0.10                       | 4.25   |  |  |  |  |  |  |  |  |
| 112        | Tah Nallah   | Easter Zone        | 0.10                       | 4.25   |  |  |  |  |  |  |  |  |
| 113        | Maipani  | Easter Zone        | 0.06                       | 2.55   |  |  |  |  |  |  |  |  |
| 114        | Ashapani   | Easter Zone        | 0.06                       | 2.55   |  |  |  |  |  |  |  |  |
| 115        | Langpani   | Easter Zone        | 0.40                       | 17.01  |  |  |  |  |  |  |  |  |
| 116        | Kachopani MHS  | Easter Zone        | 0.20                       | 8.51   |  |  |  |  |  |  |  |  |
|            | Sub Total  |                    | 8.76                       | 370.38   |  |  |  |  |  |  |  |  |
|            | TOTAL AMOUNT (Rs. In                                       | Lakh)              | 63.45                      | 2574.82  |  |  |  |  |  |  |  |  |

## Annexure - 9.

## Assumption and Tariff Sheet for Namchik II MHS

| Sl.<br>No. | Assumption Head           | Sub-Head                       | Sub-Head (2)   | Unit          | Arunachal<br>Pradesh |
|------------|---------------------------|--------------------------------|--|---------------|----------------------|
|            | D G 4                     | G :                            |  |               | upto 1 MW            |
| 1          | Power Generation          | Capacity                       | Installed Power Generation Capacity  | MW            | 0.30                 |
|            |                           |                                | Capacity Utilization Factor  | % NI VV       | 45%                  |
|            |                           |                                | Auxiliary Consumption  | %             | 1%                   |
|            |                           |                                | Useful Life  | Years         | 35                   |
| 2          | Project Cost              | Capital Cost/MW                | Power Plant Cost   | ₹ Lacs/       | 420.00               |
| 3          | Period                    |                                | Tariff Period  | Years         | 35                   |
| 4          | Sources of Fund           | Debt : Equity                  |  |               |                      |
|            |                           |                                | Debt   | %             | 70%                  |
|            |                           |                                | Equity   | %             | 30%                  |
|            |                           |                                | Total Debt Amount (Normative)  | ₹ Lacs        | 294.00               |
|            |                           |                                | Total Equity Amount  | <b>₹</b> Lacs | 126.00               |
|            |                           |                                |  |               |                      |
|            |                           | Debt Component                 | Actual Loan Amount   | <b>₹</b> Lacs | 0.00                 |
|            |                           |                                | Moratorium Period  | Years         | 0                    |
|            |                           |                                | Repayment Period (include Moratorium)  | Years         | 0                    |
|            |                           |                                | Interest Rate  | %             | 9.91%                |
|            |                           |                                |  |               |                      |
|            |                           | Equity Component               | Equity Amount  | <b>₹ Lacs</b> | 126.00               |
|            |                           |                                | Return on Equity shall be 14%, to be grossed up by prevailing                                | % p.a.        |                      |
|            |                           |                                | Minimum Alternate Tax(MAT) as on 1st<br>April of previous year for the entire useful<br>life |               | 15.60%               |
| 5          | Financial Assumptions     |                                |  |               |                      |
|            |                           | Depreciation                   |  |               |                      |
|            |                           |                                | Allowed Depreciation   | %             | 90%                  |
|            |                           |                                | Depreciation Rate for first 13 years   | <b>%</b>      | 5.28%                |
|            |                           |                                | Depreciation Rate 14th year onwards  | <b>%</b>      | 0.97%                |
|            |                           | Incentive                      | Generation based incentive if any  | <b>₹</b> Lakh | NIL                  |
|            |                           |                                | Period for GBI   | Years         |                      |
|            | W. 11 ~ ~ 1:              | P. D. 100                      |  |               |                      |
| 6          | Working Capital           | For Fixed Charges              |  | 3.7           |                      |
|            |                           | O&M Charges                    | (0/ 00 0) (  | Months        | 1 70/                |
|            |                           | Maintenance Spare              | (% of O&M expenses)  |               | 15%                  |
|            |                           | Receivables for Debtors        |  | Months        | 2                    |
|            |                           | Interest On Working<br>Capital |  | %             | 10.91%               |
|            |                           |                                |  |               |                      |
| 7          | Operation & Maintenance   | ±                              |  |               |                      |
|            |                           | (2020-21)                      |  | ₹ Lacs        | 12.76                |
|            |                           |                                | & M Expenses Escalation  | %             | 5.72%                |
| 8          | Generation and Sale of En | O.                             |  | Hrs           |                      |
|            |                           | Total No. of Hours             |  | 1113          |                      |

#### Annexure - 9.

Tariff Sheet for Namchik - II MHS

| Tariii Sheet for N      |         |       |       |       |       |       |       |       |       |       | RE T  | ariff ( | Small | Hydro | Projec | , Solar | PV, W | ind Po | wer)  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|--------|---------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Units Generation        | Unit    | Year> | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10      | 11    | 12    | 13     | 14      | 15    | 16     | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33     | 34     | 35     |
| Installed Capacity      | MW      |       | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30    | 0.30  | 0.30  | 0.30   | 0.30    | 0.30  | 0.30   | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30   | 0.30   | 0.30   |
| <b>Gross Generation</b> | MU      |       | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183   | 1.183 | 1.183 | 1.183  | 1.183   | 1.183 | 1.183  | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183 | 1.183  | 1.183  | 1.183  |
| Auxiliary               | MU      |       | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012   | 0.012 | 0.012 | 0.012  | 0.012   | 0.012 | 0.012  | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012  | 0.012  | 0.012  |
| Consumption             |         |       | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012   | 0.012 | 0.012 | 0.012  | 0.012   | 0.012 | 0.012  | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012  | 0.012  | 0.012  |
| Net Generation          | MU      |       | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171   | 1.171 | 1.171 | 1.171  | 1.171   | 1.171 | 1.171  | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171 | 1.171  | 1.171  | 1.171  |
| Fixed Cost              | Unit    | Year> | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10      | 11    | 12    | 13     | 14      | 15    | 16     | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33     | 34     | 35     |
| O&M Expenses            | Rs Lakh |       | 12.76 | 13.49 | 14.26 | 15.08 | 15.94 | 16.85 | 17.82 | 18.84 | 19.91 | 21.05   | 22.26 | 23.53 | 24.88  | 26.30   | 27.80 | 29.39  | 31.08 | 32.85 | 34.73 | 36.72 | 38.82 | 41.04 | 43.39 | 45.87 | 48.49 | 51.27 | 54.20 | 57.30 | 60.58 | 64.04 | 67.70 | 71.58 | 75.67  | 80.00  | 84.58  |
| Depreciation            | Rs Lakh |       | 22.18 | 22.18 | 22.18 | 22.18 | 22.18 | 22.18 | 22.18 | 22.18 | 22.18 | 22.18   | 22.18 | 22.18 | 22.18  | 4.08    | 4.08  | 4.08   | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08  | 4.08   | 4.08   | 4.08   |
| Interest on Term Loan   | Rs Lakh |       | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00  | 0.00  | 0.00   | 0.00    | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   |
| Interest on Working     | Rs Lakh |       | 1.36  | 1.39  | 1.42  | 1.46  | 1.50  | 1.54  | 1.58  | 1.63  | 1.67  | 1.72    | 1.78  | 1.83  | 1.89   | 1.62    | 1.69  | 1.76   | 1.83  | 1.91  | 2.00  | 2.08  | 2.18  | 2.28  | 2.38  | 2.49  | 2.61  | 2.73  | 2.86  | 3.00  | 3.15  | 3.30  | 3.46  | 3,63  | 3.82   | 4.01   | 4.21   |
| Capital                 |         |       | 1.50  | 1.39  | 1.42  | 1.40  | 1.50  | 1.54  | 1.50  | 1.03  | 1.07  | 1./2    | 1.76  | 1.00  | 1.07   | 1.02    | 1.09  | 1.70   | 1.65  | 1.71  | 2.00  | 2.00  | 2.10  | 2.20  | 2.36  | 2.47  | 2.01  | 2.73  | 2.00  | 5.00  | 3.13  | 5.50  | 3.40  | 5.05  | 3.62   | 4.01   | 7.21   |
| Return On Equity        | Rs Lakh |       | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39   | 20.39 | 20.39 | 20.39  | 20.39   | 20.39 | 20.39  | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39 | 20.39  | 20.39  | 20.39  |
| Total Fixed Cost        | Rs Lakh | 1     | 56.68 | 57.45 | 58.25 | 59.11 | 60.01 | 60.96 | 61.97 | 63.03 | 64.16 | 65.34   | 66.60 | 67.93 | 69.34  | 52.39   | 53.96 | 55.62  | 57.38 | 59.24 | 61.20 | 63.27 | 65.47 | 67.79 | 70.24 | 72.83 | 75.57 | 78.47 | 81.53 | 84.77 | 88.19 | 91.81 | 95.64 | 99.68 | 103.96 | 108.48 | 113.26 |
| Per Unit Cost of        | Unit    | Year> |       | _     |       | _     | _     |       | _     |       |       | 10      |       | -12   | 12     | .,      | 1.5   | 1.0    | 1.5   | 10    | 19    | 20    | 21    | 22    | 22    | 24    | 2.5   | 26    | 27    | 20    | 29    | 20    | 21    | 22    | 22     |        |        |
| Generation              |         |       | 1     | 2     | 3     | 4     | 3     | 6     | /     | ð     | 9     | 10      | 11    | 12    | 13     | 14      | 15    | 16     | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 21    | 28    | 29    | 30    | 31    | 32    | 33     | 34     | 35     |
| O&M Expenses            | Rs/k Wh |       | 1.09  | 1.15  | 1.22  | 1.29  | 1.36  | 1.44  | 1.52  | 1.61  | 1.70  | 1.80    | 1.90  | 2.01  | 2.12   | 2.25    | 2.37  | 2.51   | 2.65  | 2.81  | 2.97  | 3.14  | 3.32  | 3.51  | 3.71  | 3.92  | 4.14  | 4.38  | 4.63  | 4.89  | 5.17  | 5.47  | 5.78  | 6.11  | 6.46   | 6.83   | 7.22   |
| Depreciation            | Rs/k Wh |       | 1.89  | 1.89  | 1.89  | 1.89  | 1.89  | 1.89  | 1.89  | 1.89  | 1.89  | 1.89    | 1.89  | 1.89  | 1.89   | 0.35    | 0.35  | 0.35   | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35   | 0.35   | 0.35   |
| Int. on Term Loan       | Rs/k Wh |       | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00  | 0.00  | 0.00   | 0.00    | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   |
| Int. on Working Capital | Rs/k Wh |       | 0.12  | 0.12  | 0.12  | 0.12  | 0.13  | 0.13  | 0.13  | 0.14  | 0.14  | 0.15    | 0.15  | 0.16  | 0.16   | 0.14    | 0.14  | 0.15   | 0.16  | 0.16  | 0.17  | 0.18  | 0.19  | 0.19  | 0.20  | 0.21  | 0.22  | 0.23  | 0.24  | 0.26  | 0.27  | 0.28  | 0.30  | 0.31  | 0.33   | 0.34   | 0.36   |
| RoE                     | Rs/k Wh |       | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74    | 1.74  | 1.74  | 1.74   | 1.74    | 1.74  | 1.74   | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74  | 1.74   | 1.74   | 1.74   |
| Total COG               | Rs/k Wh | 1     | 4.84  | 4.91  | 4.98  | 5.05  | 5.13  | 5.21  | 5.29  | 5.38  | 5.48  | 5.58    | 5.69  | 5.80  | 5.92   | 4.47    | 4.61  | 4.75   | 4.90  | 5.06  | 5.23  | 5.40  | 5.59  | 5.79  | 6.00  | 6.22  | 6.45  | 6.70  | 6.96  | 7.24  | 7.53  | 7.84  | 8.17  | 8.51  | 8.88   | 9.27   | 9.67   |
| Discount Factor         |         |       | 1.00  | 0.89  | 0.80  | 0.71  | 0.64  | 0.57  | 0.51  | 0.45  | 0.41  | 0.36    | 0.32  | 0.29  | 0.26   | 0.23    | 0.21  | 0.18   | 0.16  | 0.15  | 0.13  | 0.12  | 0.10  | 0.09  | 0.08  | 0.07  | 0.07  | 0.06  | 0.05  | 0.05  | 0.04  | 0.04  | 0.03  | 0.03  | 0.03   | 0.02   | 0.02   |
| Discounted Tariff       |         |       | 4.84  | 4.38  | 3.97  | 3.60  | 3.26  | 2.96  | 2.69  | 2.44  | 2.22  | 2.02    | 1.84  | 1.68  | 1.53   | 1.03    | 0.95  | 0.87   | 0.81  | 0.74  | 0.69  | 0.63  | 0.59  | 0.54  | 0.50  | 0.46  | 0.43  | 0.40  | 0.37  | 0.34  | 0.32  | 0.30  | 0.28  | 0.26  | 0.24   | 0.22   | 0.21   |
| Levellised Tariff       | Rs/Unit |       | 5.29  |       | ·     |       | ·     |       |       |       |       |         |       |       |        |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |



BE, 2019-20

Name of Department: Hydropower

| Astual         | 2018-    | 10   | SI.  | Head of Development / Account   | (Rs. in lakh)<br>Budget |
|----------------|----------|--|------|---|-------------------------|
| Actual 2017-18 | Budget   | Revised  | No.  | Tread of Beveropine.  | Estimate 2019           |
|                | Estimate |  |      |   | 20                      |
| 1              | 2        | 3  | 4    | 5   | 6                       |
|                |          |  | Α    | DEVELOPMENT ACTIVITIES  |                         |
|                |          |  | 1    | On-going Schemes  |                         |
|                |          |  | a)   | Hydel Generation  |                         |
| 50.00          | 200.00   | 200.00   | 1    | Khajalong MHS at Khajalong (2 x 1000 Kw)  | 306.6                   |
|                | 45.91    | 45.91  | 2    | Rapo MHS at Jayang Bagang (2 x 100 Kw)  | 32.0                    |
| 50.00          | 100.00   | 100.00   | 3    | Wari MHS at Khenewa Circle (2x 25 kW).  | 83.0                    |
|                | 30.00    | 30.00  | 4    | Babung MHS (2 x 25 kW) at Bengde  | 40.0                    |
| 100.00         | 100.00   | 100.00   | 5    | Kush MHS at Sangram (2 x 1000 Kw)   | 571.0<br>46.6           |
|                |          |  | 6    | Parlo MHP at Parsiparlo (2 x 250 kW)  | 265.0                   |
| 252.00         | 200.00   |  | 7    | Pagu MHS under Palin Circle (2 x 1000 Kw)   | 106.0                   |
| 130.08         | 300.00   | 300.00   | 8    | Angong Nallah MHS near Janbo (3 x 1500 Kw)  | 10.0                    |
|                | 10.00    | 10.00  | 9    | Sirikorang MHS Ph-II (3 x 100 kW) under Mechuka Sub-<br>Division                                  |                         |
| 132.00         |          |  | 10   | Subbung SHP near Subsing village (3x1000 KW)  | 50.0                    |
| 250.00         | 350.00   | 350.00   | 11   | C/o Tissu MHS Ph-II (2 x 250 kW)  | 377.0                   |
| 964.08         | 1335.91  | 1335.91  |      | Total of Hydel Gen (a)  | 1887.2                  |
|                |          |  | b    | Hydel Improvement   | 50.0                    |
| 60.00          | 200.00   | 200.00   | 1    | Special repair & maintenance of Damaged Unit - III of Nuranang SHP Ph-I (3 x 2000 kW)             |                         |
| 300.00         | 200.00   | 200.00   | 2    | Special repair of 2 x 500 kW Domkhrong Hydro Power  | 87.0                    |
| 300.00         | 200.00   |  |      | Project at Kalaktang  |                         |
|                |          | 100.00   | 3    | Renovation & Modernization work of Sessa MHS (3 x 500 kW)   | 500.0                   |
|                | 80.00    | 80.00  | 4    | Reconstruction of rain damaged water conductor system   | 17.0                    |
|                |          |  |      | of Khajalong MHS (2 x 750 kW) at Nafra  |                         |
|                | 82.00    | 82.00  | 5    | Repair & maintenance of TG Unit-II of Pacha SHP (2 x  | 90.0                    |
|                |          |  |      | 1500 kW); synchronising of both units i/c supply of   |                         |
|                |          |  |      | Governor panel  |                         |
|                | 55.00    | 55.00  | 6    | R & M of Pacha SHP (2 x 1500 kW) (SH : Civil Works 8  | 50.0                    |
|                |          |  |      | EM works)   | 103.                    |
| 50.00          | 50.00    | 50.00  | 7    | Special Repair of Tago MHS (3 x 1500 kW) (SH Replacement of penstock pipe) i/c EM works - 3 Units | 103.                    |
|                | 20.00    | 30.00  | 8    | Special repair and maintenance of Sippi SHP (2 x 2000   | 10.1                    |
|                | 30.00    | 30.00  | 0    | kW) (SH: Raising height of Power channel, Spillway and  |                         |
|                |          |  |      | cover slab on sliding zone)   |                         |
|                | 25.00    | 25.00  | ) 9  | Restoration of flood damage works at Weir intake, feede   | rl 20.                  |
|                | 25.00    | 25.00  | פ    | channel, escape channel, desilting tank, silt flushing  |                         |
|                |          |  |      | channel, power channel, forebay tank etc. of Kamba  | al                      |
|                |          |  |      | SHEP (3 x 2 MW)   |                         |
|                | 20.00    | 20.00  | 10   | 5 5 11 241 10 14 400 1414   | 10.                     |
|                | 20.00    | 20.00  | 10   | (SH: Civil works)   |                         |
| 057.00         | 040.40   | 3 212.16   | 3 11 | Protection of Forebay tank and Improvement in Powe  | r 10.                   |
| 257.00         | 212.16   | 212.10   | 3 11 | Evacuation system of Rina SHP (2 x 1000 kW)   |                         |
|                | 30.00    | 30.00  | 0 12 | C/o New Desilting Tank & Feeder Channel and EM wor  | k 20                    |
|                | 30.00    | 00.0   |      | for Pasighat MHS (2 x 100 kW)   |                         |
| 31.00          | 44.49    | 9 44.4   | 9 13 | Special repair of Doorah Nallah MHS (4 x 100 kW)  | 6                       |
| 30.00          |          | COLUMN TO THE PARTY OF THE PART |      | 11 1 11 10 (011 1-1-1-1 1)  | 20                      |
|                |          | 100  | 0 45 | Special Repair of Charju MHS (3 x 200 kW)   | 15                      |
| 30.00          |          |  |      | Total of Hydel Improv. (b   |                         |
| 758.00         | 0 1063.6 | 5 1163.6   |      |   | 1                       |
|                |          |  |      | c) Buildings  C/o HT/SPT Residential Building for staff of Lho                                    | u 45                    |
| 87.7           | 5        |  | 1    | Division (SH:- T-V/1 No., T-IV/2 Nos., T-III/3 Nos., T-III  |                         |
|                |          |  |      | DIVISION (SM:- 1-V/1 NO., 1-IV/2 NOS., 1-III/3 NOS., 1-III/3                                      |                         |
|                |          |  | 0 0  | Nos., T-I/3 Nos. & B/Barrack- 10 Units)  Approach road to DHPD Residential complex at Itanaga     | ir 30                   |
| 20.0           | 0 400    | 0 40.0   | 0 2  | Approach toad to Dille to Meanderstal complex at italiage   | 1                       |

|                |                             |   | 1*/                                      | Miles ma   | (Rs. in lakh |
|----------------|-----------------------------|---|--|--|--------------|
| Actual 2017-18 | 2018-<br>Budget<br>Estimate | Revised   | gar (A.S.) Head of Development / Account | Budget<br>Estimate 2019<br>20  |              |
| 1 1            | 2                           | 3   | 4  | 5  | 6            |
|                | 35.00                       | 35.00   | 3  | C/o Second Floor on Govt. Accomodation for DHPD at Itanagar (SH: T-IV/2 Nos, T-III/2 Nos., T-II/2 Nos. & T-I/2 Nos.)   |              |
|                | 15.00                       | 15.00   | 4  | Providing external electric service connection for Govt. accomodation of DHPD at Itanagar.   | 15.00        |
|                | 15.00                       | 15.00   | 5  | C/o Boundary wall cum protection wall at Hydro Power<br>Office Complex at Itanagar   |              |
| 25.00          | 25.00                       | 25.00   | 6  | C/o RCC Boundary wall around Civil & EM Division office/Residential Hydro Power Complex at Manpoliang  | 20.0         |
|                | 20.00                       | 20.00   | 7  | C/o Security fencing around Power House of Sippi SHP   | 10.0         |
|                | 10.00                       | 10.00   | 8  | C/o Office Building for AE (E&M), Daporijo EM Sub-<br>Division, DHPD   | 10.0         |
| 15.00          | 30.00                       | 30.00   | 9  | C/o Newly created Office building for Koloriang Civil Division, DHPD at Koloriang  |              |
| 16.00          | 30.00                       | 30.00   | 10                                       | C/o Residential Building for Civil Division staffs at Koloriang (T-IV-2 nos., T-III-3 nos.& Bachelor Barrack 5 Men   |              |
| 5.00           | 20.00                       | 20.00   | 11                                       | C/o T-V residential building for EE(C), Koloriang  | 6.5          |
|                | 20.00                       | 20.00   | 12                                       | C/o Security fencing around Power House of complex of Payu MHS at Koloriang  |              |
|                | 31.16                       | 21.16   | 13                                       | C/o Boundary wall of Division office at Aalo   | 28.8         |
|                | 10.00                       |   | 14                                       | C/o foot suspension bridge at Sirikorang MHS (2 x 250 kW)  |              |
|                | 35.30                       | 35.30   | 15                                       | Infrastructure development of newly created Electro-<br>Mechanical Sub Division & Civil Sub Division at Tirbin   | 25.0         |
| 103.00         | 116.51                      | 116.51  | 16                                       | C/o SE Office Building cum Residental buildings for newly created Pasighat Circle / Lower Siang-Dibang Basin (SH: Office Bldg1 No. T-V/1 No., T-III/2 Nos., T-III/4 Nos. & Bachelor Barrack - 5 Units) |              |
|                | 25.00                       |   | 17                                       | C/o Compound wall for newly created SE office for Lower<br>Siang and Dibang Basin Circle   |              |
|                | 34.00                       | 34.00   |  | C/o Security fencing wall around DHPD complex Rock land, Tezu with M.S. Gate area 850R/Mts   |              |
|                | 5.00                        | 5.00  | 19<br>20                                 | C/o Office building Changlang Sub-Division  C/o 1 (one ) unit B/Barrack 4 unit for operational staff for Yapak Nallah MHS (2 X 100 KW)   | 10.0         |
| 10             | 10.96                       | 10.96   | 21                                       | C/o Security fencing / compound wall for Division office at Hawai Hydro power Division at Hawai  | 16.4         |
|                | 8.00                        |   | 22                                       | C/o 2 Unit Bachelor Barrack for Operational staff of Kachopani MHS (2 x 100 kW)  |              |
| 074.75         | 8.18                        |   | 23                                       | C/o R C.C office building at Khonsa EM Sub-Division  | 41.8         |
| 271.75         | 544.11                      | 534.11  |  | Total of Buildings (c)   | 430.6        |
|                | 2.00                        | 2.00  | 1  | Survey & Investigation Survey & Investigation of MHP at Sakio Nallah (Amen Nallah) near Veo Village  | 2.0          |
|                | 3.00                        | 3 00  | 2  | Survey & Investigation of MHP at Passa river (Ph-II) at Passa Valley Circle  | 3.0          |
|                | 1.00                        |   | 3  | Survey & Investigation over Takesidang River at Ruhi Village under Tali ADC Hq.  |              |
| 0.00           | 6.00                        | THE CONTRACTOR OF THE PARTY OF | eri o i o markaga arrawa a               | Total of Survey & Invest (d)   |              |
| 1993.83        | 2949.67                     | 3039.67   | II a                                     | New Schemes  | 3332.9       |
|                |                             |   | 1<br>1                                   | Hydel Improvement   Repairing of Damaged generator (2500 KVA) of Unit No.   II of Nuranang Ph-I (3 x 2 MW)   | 50.0         |



## Name of Department: Hydropower

(Rs. in lakh)

| Actual 2018-19 |                    | SI. Head of Development / Account |     | Budget<br>Estimate 20  |         |       |
|----------------|--------------------|-----------------------------------|-----|--|---------|-------|
| 2017-18        | Budget<br>Estimate | Revised                           | No. |  | 20      |       |
| 1              | 2                  | 3                                 | 4   | 5  | 6       |       |
|                |                    |                                   | 2   | Reconstruction of Spillway and Power Channel of Mago<br>MHS (2 x 50 kW) at Mago (SH: Length of Spillway = 50.0   |         | 20.00 |
|                |                    |                                   | 3   | mtr. & Power Channel = 150.0 mtr.)  Realignment of Power Channel and feede channel of  |         | 20.00 |
|                |                    |                                   | 4   | Shakti Hydel Station (2 x 50 kW)  Reconstruction of Power Channel, Spillway and Sluice Valve of Tsechu MHS (2 x 50 kW) at Tsechu   |         | 20.00 |
|                |                    |                                   | 5   | Reconstruction of Spillway Channel , Scour Pipe and Forebay Tank of Thingbu MHS (2 x 50 kW)  |         | 20.00 |
|                |                    |                                   | 6   | C/o Desilting Tank of Chellengkang Ph-I & Ph-II (1 x 30 kW)  |         | 20.00 |
|                |                    |                                   | 7   | Reconstruction of rain damages of Power Channel of Zhagdongrong Hydel Station (2 x 500 kW) (SH: Length of Power Channel = 35.00 mtr., Retaining wall = 25.0 mtr. & slip clearance = 40.0 mtr.)                     |         | 35.00 |
|                |                    |                                   | 8   | Complete replacement of old turbine and generator set of Unit-III of Rahung Hydel Station (3x250 kW) and improvement of switchyard and external protection system.   |         | 95.00 |
|                |                    |                                   |     | Special repair of Angkaling MHS (1 x 30 kW)  |         | 15.00 |
|                |                    |                                   | 9   | Special repair of Arigkaining Wind (1 x 30 kW)   |         | 15.0  |
|                |                    |                                   | 10  | Reconstrution of flood damage of Power Channel of Pacha SHP (2 x 1500 kW) (SH: Length of Power Channel = 47.0 mtr., Aquaduct = 1 No. of span 15.0 mtr with abutment & length Retaining wall = 85.0 Mtr. with       |         | 150.0 |
|                |                    |                                   | 12  | kW (procurement of new TG 2x50 kW) sits with its control panel and protection panel, board and C/c   | >       | 50.0  |
| 7              |                    |                                   | 13  | 0.415/1.1 kv step up sub-station.  Reconstruction of rain damages of Spillway Channel of Sippi SHP (2 x 2000 kW) (SH; Length of Spillway Channel = 35.20 mtr. & Retaining wall 35.20 mtr.)                         | f       | 30.0  |
|                |                    |                                   | 14  | Special repair of Penstock pipes, expansion joints and other hydromechanical equipments of Dulom MHS (2: 200 kW) including extension of Spillway Channel & Protection work (SH: Expansion Joints = 5 Nos. & length | ×<br>3  | 20.   |
|                |                    |                                   | 15  | of Spillway Channel = 118,00 mtr.)  Special repairs & maintenance of Sikin Koro MHS (2x10 kW) at Bui (SH : Re-construction of rain damaged Power Channel & EM works).  | O<br>er | 15.   |
| 6              |                    |                                   | 10  | structures of Payu MHS (2 x 250 kW) at Pinchi (Shill pength Weir = 12.0 mtr., Feeder Channel = 35.0 mtr.   | 1.      | 75.   |
|                |                    |                                   |     | Power Channel = 50.0 mtr. & Retaining Wall = 105.<br>mtr.)   |         | 7     |
|                |                    |                                   |     | 7 Special repair of Chate MHS (1 x 30 kW) 8 C/o Cross drainage works (Aqueducts & culvert) at Pag  | gu      | 75    |
|                |                    |                                   | 1   | MHS (2 x 1000 kW) at Choba  9 Repair, replacement & refurbishment of damaged E   | M       | 200   |
|                |                    |                                   | 2   | equipments of Angong Nallah MHS Rectification works of spillway of Angong Nallah SHP   | (3      | 90    |
|                |                    |                                   |     | x 1500 kW) 21 Special repair of Singha MHS (1 x 30 kW)   |         | 10    |
|                |                    |                                   |     | 21 Special repair of Singha MHS (1 x 30 kW) 22 Special repair of Sirnyuk SHP (2 x 1000 kW) (S Supply, erection, testing and commissioning of electron  | H:      | 30    |

| Actual  | 2018-19  |                | SI   | Budget<br>Estimate 2019-   |  |
|---------|--|----------------|------|--|--|
| 2017-18 | Budget   | Revised        | No.  |  | 20   |
|         |  | 3              | 4    | 5  | 6  |
| 1       | 2  | 3              | 22 6 | Special repair of Kopu MHS (1 x 250 kW) (SH: Supply,   | 25.00  |
|         |  |                | е    | erection, testing and commissioning of 1G control panel  |  |
|         |  |                | i.   | (c OPU) (C   | 10.00  |
|         |  |                | 24 F | Repair and maintenance of Gossang MHS (2x 250 kW)  |  |
|         |  |                |      | SH: Repairing of Electronic governor and synchronizing   |  |
|         |  |                | J    | panel)   | 15.00  |
|         |  |                | 25   | Special repair of Yingkiong Ph-II MHS (2 x 100 kW) (SH:  | 1  |
|         |  |                |      | supply, erection, testing & commissioning of ELC panel   |  |
|         |  |                | 1    | with dummy load tank)  | 15.00  |
|         |  |                | 26   | Special repair of Sille MHS (2 x 250 kW) at Geku   |  |
|         |  |                |      | Special repair of E&M equipments of Pasighat MHS (2 x  | 00.00  |
|         |  |                |      | 100 kW)  | 15.00  |
|         |  |                |      | Upgradation of existing switchyard for Pasighat MHS (2)  | 10.00  |
|         |  |                |      | 100 kW)  | f 24.00  |
|         |  |                | 29   | Special repair of Electro-Mechanical equipments of   |  |
|         |  |                |      | Kamba SHEP (3 x 2 MW) including replacement of all worn out equipments like CT, PT, LA and insulators etc.   |  |
|         |  |                |      | and Installation of New Electronic Governor for Unit-I.  |  |
|         |  |                |      | and Installation of New Electronic Governor for One  |  |
|         |  |                |      | Special repair of Liromoba SHP ( 2 x 1000 kW) (SH:   | 40.00  |
|         | Account of the Control of the Contro |                | 30   | Repairing of AVR panel and CT/PT) i/c EM works   |  |
|         |  |                | 1-04 | Special repair of Aalo MHS (4 x 100 kW)  | 10.00  |
| ×       |  |                | 31   | Special repair of Dali MHS ( 4 x 100 kW) (SH:- Civil and   | d 60.00  |
|         |  |                | 32   | E&M Works)   |  |
|         |  |                |      | Special repair of Pagi SHP ( 2 x 50 kW) (SH:- E & N  | vi 25.00   |
|         |  |                | 33   | Works)   |  |
|         |  |                | 1 24 | Special repair of Sirikorong MHS (2 x 250 kW) (SH: We  | ir 10.0  |
|         |  |                | 34   | Intake).   | *  |
|         | Name of the Control o | and the second |      | make).   |  |
|         |  |                | 35   | Modification of Spillway of Subbung SHP (2x1500Kw)   | 50.0   |
|         |  |                |      | CUD (4 . 500 LW) (SI   | H: 50.0  |
|         |  |                | 36   | Special repair of Yembung SHP (4 x 500 kW) (SI   |  |
|         |  |                |      | Restoration of weir & intake, protection structures  | 10   |
|         | deciment of the  |                |      | power channel and including repair & replacement of E  | 101  |
|         |  |                |      | Equipment).  Spl. Repair of Awapani MHS (2 x 250 KW) at Gepuline   | 30.0   |
|         |  |                | 37   | Spi. Repair of Awapani MHS (2 x 250 KVV) at Gepainte   |  |
|         |  |                | 38   | Special repair of damaged weir intake at Chini Afra Mh   | 15.0   |
|         |  |                | 30   | (1 x 250 kW)   |  |
|         |  |                | 39   | Restoration works of Chu Nallah MHS (2 x 15 kW)  | 8.0  |
|         |  |                | 40   | Modification of Turbine Governoring system of Tafrage  | ım 15.0  |
|         |  |                | 70   | MHS (1x250Kw)  |  |
|         | _  |                | 41   | Repairing of Penstock pipe and Governing syste   | em 25.0  |
| 4.5     |  |                |      | maintenance of Tafragam MHS (1 x 250Kw)  |  |
|         |  |                | 42   | Special repair of Mati Nallah MHS (2 x 250 KW) (E  | M 10.  |
|         |  |                |      | Works)   |  |
|         |  |                | 43   | Special repair ing of Teepani MHS (2 x 250 kW) (S  | SH: 35.  |
|         |  |                |      | E&M works)   | N) 20.   |
|         |  |                | 44   | Renovation of control panel of Charju MHS (3 x 250 k)  | 20.  |
|         |  |                |      | Restoration of damaged power channel a   | and 25.  |
|         |  |                | 45   |  |  |
|         |  |                | -    | improvement of govering system of Unit-I of Tirat  | . ,  |
|         |  |                | -    | MHS (4 x 250 kW)  Special repair of Tinning MHS (2 x 30 kW) (5   | SH: 30   |
|         |  |                | 46   | Reconstruction of feeder channel)  |  |
|         |  |                | 47   | 100 100  | 116  |
|         |  |                | 4/   | Total of Hydel Improv.   | THE RESERVE THE PARTY OF THE PA |
|         |  |                |      | b) Buildings   |  |
|         |  |                | 1    | Distriction of long  | 15   |
|         |  |                |      | Old William Bulling at the grant and a second a second and a second an |  |



| Actual     | 201      | 8-19    | SI.  | Head of Davidson (A.)  | (Rs. in lakh     |
|------------|----------|---------|------|--|------------------|
| 2017-18    | Budget   | Revised | No.  | ricad of Development / Account   | Budget           |
|            | Estimate |         |      |  | Estimate 2019    |
| 1          | 2        | 3       | 4    | 5  | 20               |
|            |          |         | 2    | C/o residential building for staff quarter under Lumla                             | 6                |
|            |          |         |      | Civil Sub-Division (T-III/1 No. & T-II/1 No.)                                      | 12.76            |
|            |          |         | 3    | CC Flooring to DHPD Residential complex at Itanagar                                | 20.00            |
|            |          |         |      |  | 20.00            |
|            |          |         | 4    | Slab cover on Nallah of DHPD Residential Complex                                   | 25.00            |
| The second |          |         | 5    | C/o Boundary wall cum protection Wall at Hydro Power                               | 25.00            |
|            |          |         |      | Office complex, Itanagar Chainage between Cultural                                 | 20.00            |
|            |          |         |      | point to 47.95 m (SH: RCC river training wall and RCC)                             |                  |
|            |          |         |      | protection cum boundary wall)  |                  |
|            |          |         | 6    | C/- C51 - O//  |                  |
|            |          | 100     | 0    | C/o SE's Office Building Cum Residental buildings for                              | 12.75            |
|            |          |         |      | mewly shifted Subansin Basin to Ziro (SH Office Ride 1)                            |                  |
|            |          |         |      | No. T-V/1 No., T-III/2 Nos., T-II/4 Nos. & Bachelor Barrack - 5 Units)             |                  |
|            |          |         | 7    | C/o Staff Quarter for IE at Tall (CLL T W.C.)                                      |                  |
|            |          |         | 8    | C/o Staff Quarter for JE at Tali (SH: T-III/1 No.)                                 | 10.00            |
|            |          |         |      | C/o staff quarter at intake & forebay tank of Angong nallah (SH: 4 men B/barracck) | 12.00            |
|            |          |         | 9    | Infrastructure development of Division office complex at                           |                  |
|            | 152.25   |         |      | Geku.  | 10.00            |
|            |          |         | 10   | Security Fencing around Hydro Power Complex at                                     |                  |
|            |          |         |      | Namsai   | 100.00           |
|            |          |         |      | Total of Buildings (b)   | 0.10 = 1         |
|            |          |         | c)   | Survey & Investigation   | 242.51           |
|            |          |         | 1    | S&I of Pemashulfu MHS (3 x 250 kW) near Mechuka                                    |                  |
|            |          |         | 2    | S&I Pibung MHS (2 x 250 kW) over Pibung river at                                   | 2.00             |
|            |          |         |      | Tumbin   | 2.00             |
|            |          |         |      | Total of Survey & Invest (c)   | 4.00             |
| 0.00       | 0.00     | 0.00    |      | Sub-Total (II)   | 4.00<br>2017.01  |
|            |          |         |      | Maintenance of Assets  | 2017.01          |
| 700.00     | 800.00   | 800.00  |      | Hydel Station, Building, Petty Works etc.  | 900.00           |
|            |          |         | 2    | Logistic support for strengthening of the Chief Engineer                           | 800.00<br>200.00 |
|            |          |         |      | (P&D) - Establishment (SH: Design Tools & Equipment,                               | 200.00           |
|            | -        |         |      | Drawing Tools & Equipment, Training Equipment /                                    |                  |
|            |          |         | 1    | Accessories, Exposure Technical Tour within the Country                            |                  |
| 700.00     | 200 00   |         |      | and Abroad etc.)   |                  |
| 700.00     | 800.00   | 800.00  |      | Sub-Total (III)  | 1000.00          |
| 2693.83    | 2740.07  | 2000 0= |      |  | .500.00          |
| 2033.03    | 3749.67  | 3839.67 |      | Total: (A)   | 6350.00          |
|            |          |         |      | Budget Announcement  |                  |
|            |          |         | -    | New  |                  |
|            |          |         | 1    | Capacity Building, Public Sensitization / awareness /                              | 500.00           |
|            |          |         | 10   | Confidence Building, Development of Software for                                   |                  |
|            |          |         | - 11 | Monitoring System and Legal / Consultancy Services for                             |                  |
|            |          |         | 1    | Hydro Power Development in Arunachal Pradesh                                       |                  |
| 0.00       | 0.00     | 0.00    |      |  |                  |
| 0.00       | 0.00     | 0.00    |      | Total: (B)   | 500.00           |
| 2693.83    | 3749.67  | 3839.67 |      |  |                  |
|            | 0.40.01  | 3033.07 |      | GRAND TOTAL : (A) + (B) + (C)  | 6850.00          |

GRAND TOTAL : (A) + (B) + (C)



# **APPLICATION**

**FOR** 

ANNUAL REVENUE REQUIREMENT (ARR)

&

TARIFF PETITION FOR

FY 2020-21

PART - B

Submitted by: Department of Hydro Power Development - 2020

# Index

| Check list of forms and other documents for Annual Revenue Requirement filing by Generation Licencee |   |                        |  |  |  |
|--|---|------------------------|--|--|--|
| Format No.   | Title of Format   | Page No.               |  |  |  |
| Format - HG1   | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) | page i (1) - i (124)   |  |  |  |
| Format - HG2   | Design Energy and MW Continuous (month-wise) Run of River<br>Type Stations                  | page ii (1) - ii (124) |  |  |  |
| Format - HG3   | Annual Revenue Requirement  | page iii               |  |  |  |
| Format - 2   | Total Number of Employee  | page iv                |  |  |  |
| Format - 3   | Employees Productive Parameters   | page v                 |  |  |  |
| Format - 13  | Investment Plan (Scheme - Wise)   | page vi                |  |  |  |
| Format - 14  | Investment Plan (Year - Wise)   | page vii               |  |  |  |

Name of the Hydro Generating Station : Chellengkang Ph-I State/ Distt. Arunachal Pradesh/ Tawang District

|        | ls of Cod, Type of Hydro Stations,          |             | Annual Plant A        | vailahility    |
|--------|---|-------------|-----------------------|----------------|
|        | or (NAPAF)                                  | TOTHIALIV   | z z minaar r iam, z i | vanaomiy       |
| 1 acto | & other normative para                      | meters cor  | sidered for Tarif     | f              |
| Sl.    | •   |             | 2019-20               | 2020-21        |
| No.    | Description                                 | Unit        | (Estimated)           | (Projected)    |
| 1      | Installed Capacity                          | KW          | 30                    | 30             |
| 2      | Free Power to home state                    | %           | NIL                   | NIL            |
| 3      | Date of commercial operation                |             |                       |                |
|        | Unit – 1                                    |             |                       |                |
| 4      | Type of Station                             |             |                       |                |
|        | a) Surface/ underground                     |             |                       |                |
|        | b) Purely ROR/ Pondage/ Storage             |             |                       |                |
|        | c) Peaking/ non-peaking                     |             |                       |                |
|        | d) No of hours of peaking                   |             |                       |                |
|        | e) Overload capacity (MW) &                 |             |                       |                |
|        | period                                      |             |                       |                |
| 5      | Type of excitation                          |             |                       |                |
|        | a) Rotating exciters on generator           |             |                       |                |
|        | b) Static excitation                        |             | 1                     |                |
| 6      | Design Energy (Annual)                      | Mus         | 0.25                  | 0.25           |
| 7      | Auxiliary Consumption including             | %           | 1.000/                | 1.000/         |
| /      | Transformation losses                       | %0          | 1.00%                 | 1.00%          |
| 8      | Normative Plant Availability                | %           |                       |                |
| 0      | Factor (NAPAF)                              | 70          |                       |                |
| 9.1    | Maintenance Spares for WC                   | Rs.<br>Lakh |                       |                |
| 9.2    | Receivable for WC                           | R. Lakh     |                       |                |
| 9.3    | Base Rate of return on equity               | %           | 14                    | 14             |
| 9.4    | Tax Rate                                    | %           | Not Applicable        | Not Applicable |
| 9.5    | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%                | 12.90%         |
| 10.1   | Туре  |             |                       |                |
| 10.2   | Installed Capacity (Bo of Units x MW)       | KW          | 30                    | 30             |
| 10.3   | Peaking capacity during lean period (MW)    |             |                       |                |
|        | Type of Turbine                             |             |                       |                |
|        | Rated Head (M)                              |             |                       |                |
| 10.6   | Rated Discharge (Cumes)                     |             |                       |                |

Name of the Hydro Generating Station : Chellengkang Ph-II State/ Distt. Arunachal Pradesh/ Tawang District

|       | ils of Cod, Type of Hydro Stations,         | •           | Annual Dlant A      | voilobility    |
|-------|---|-------------|---------------------|----------------|
|       | or (NAPAF)                                  | INOIIIIauv  | Allitual I Ialit, A | ivaliauliliy   |
| racio | & other normative para                      | meters cor  | sidered for Tarif   | f              |
| Sl.   | & other normative para                      | incicis coi | 2019-20             | 2020-21        |
| No.   | Description                                 | Unit        | (Estimated)         | (Projected)    |
| 1     | Installed Capacity                          | KW          | 30                  | 30             |
| 2     | Free Power to home state                    | %           | NIL NIL             | NIL            |
| 3     | Date of commercial operation                | 70          | TVIE                | TVIL           |
|       | Unit – 1                                    |             |                     |                |
| 4     | Type of Station                             |             |                     |                |
|       | a) Surface/ underground                     |             |                     |                |
|       | b) Purely ROR/ Pondage/ Storage             |             |                     |                |
|       | c) Peaking/ non-peaking                     |             |                     |                |
|       | d) No of hours of peaking                   |             |                     |                |
|       | e) Overload capacity (MW) &                 |             |                     |                |
|       | period                                      |             |                     |                |
| 5     | Type of excitation                          |             |                     |                |
|       | a) Rotating exciters on generator           |             |                     |                |
|       | b) Static excitation                        |             |                     |                |
| 6     | Design Energy (Annual)                      | Mus         | 0.25                | 0.25           |
| 7     | Auxiliary Consumption including             | %           | 1.00%               | 1.00%          |
| ,     | Transformation losses                       | 70          | 1.0070              | 1.0070         |
| 8     | Normative Plant Availability                | %           |                     |                |
| 0     | Factor (NAPAF)                              | 70          |                     |                |
| 9.1   | Maintenance Spares for WC                   | Rs.<br>Lakh |                     |                |
| 9.2   | Receivable for WC                           | R. Lakh     |                     |                |
| 9.3   | Base Rate of return on equity               | %           | 14                  | 14             |
| 9.4   | Tax Rate                                    | %           | Not Applicable      | Not Applicable |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%              | 12.90%         |
| 10.1  | Туре  |             |                     |                |
| 10.2  | Installed Capacity (Bo of Units x           | KW          | 30                  | 30             |
| 10.2  | MW)   | 1Z AA       | 50                  | 50             |
| 10.3  | Peaking capacity during lean                |             |                     |                |
|       | period (MW)                                 |             |                     |                |
|       | Type of Turbine                             |             |                     |                |
|       | Rated Head (M)                              |             |                     |                |
| 10.6  | Rated Discharge (Cumes)                     |             |                     |                |

Name of the Hydro Generating Station : Shakti Nallah State/ Distt. Arunachal Pradesh/ Tawang District

|        | ls of Cod, Type of Hydro Stations,                    |             | - Annual Plant A          | vailability    |
|--------|---|-------------|---------------------------|----------------|
|        | or (NAPAF)  | 1 (Olliati) | 2 1 Hilliaar 1 Tairt, 7 1 | vanaonity      |
| 1 4010 | & other normative para                                | meters cor  | sidered for Tarif         | f              |
| Sl.    | es omer norman ve para                                |             | 2019-20                   | 2020-21        |
| No.    | Description   | Unit        | (Estimated)               | (Projected)    |
| 1      | Installed Capacity                                    | KW          | 100                       | 100            |
| 2      | Free Power to home state                              | %           | NIL                       | NIL            |
| 3      | Date of commercial operation                          | 70          | TVIE                      | TVIL           |
|        | Unit – 1  |             |                           |                |
|        | Unit – 2  |             |                           |                |
| 4      | Type of Station                                       |             |                           |                |
|        | a) Surface/ underground                               |             |                           |                |
|        | b) Purely ROR/ Pondage/ Storage                       |             |                           |                |
|        | c) Peaking/ non-peaking                               |             |                           |                |
|        | d) No of hours of peaking                             |             |                           |                |
|        | e) Overload capacity (MW) &                           |             |                           |                |
|        | period  |             |                           |                |
| 5      | Type of excitation                                    |             |                           |                |
|        | a) Rotating exciters on generator                     |             |                           |                |
|        | b) Static excitation                                  |             |                           |                |
| 6      | Design Energy (Annual)                                | Mus         | 0.83                      | 0.83           |
| 7      | Auxiliary Consumption including Transformation losses | %           | 1.00%                     | 1.00%          |
| 8      | Normative Plant Availability<br>Factor (NAPAF)        | %           |                           |                |
| 0.1    | ·   | Rs.         |                           |                |
| 9.1    | Maintenance Spares for WC                             | Lakh        |                           |                |
| 9.2    | Receivable for WC                                     | R. Lakh     |                           |                |
|        | Base Rate of return on equity                         | %           | 14                        | 14             |
| 9.4    | Tax Rate  | %           | Not Applicable            | Not Applicable |
| 9.5    | Prime lending Rate of SBI as on April' 2017           | %           | 13.80%                    | 12.90%         |
| 10.1   | Туре  |             |                           |                |
|        | Installed Capacity (Bo of Units x MW)                 | KW          | 100                       | 100            |
| 10.3   | Peaking capacity during lean period (MW)              |             |                           |                |
| 10.4   | Type of Turbine                                       |             |                           |                |
| 10.5   | Rated Head (M)  |             |                           |                |
| 10.6   | Rated Discharge (Cumes)                               |             |                           |                |

Name of the Hydro Generating Station : Thimbu State/ Distt. Arunachal Pradesh/ Tawang District

| Souther normative parameters considered for Tariff   Sl. No.   Description   Unit   Estimated   (Projected)  | Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                |                |  |  |
|--|-------|---|------------|----------------|----------------|--|--|
| Sl. No.   Description   Unit   2019-20 (Estimated)   (Projected)   | (NAF  |   |            |                |                |  |  |
| No.   Description   Unit   (Estimated)   (Projected)   |       | & other normative para  | meters cor |                |                |  |  |
| No.  |       | Description   | I Init     |                |                |  |  |
| 2   Free Power to home state   %   NIL   NIL   | No.   | •   | Omt        |                |                |  |  |
| Date of commercial operation   |       |   |            |                |                |  |  |
| Unit - 1   | 2     |   | %          | NIL            | NIL            |  |  |
| Unit - 2   | 3     |   |            |                |                |  |  |
| Type of Station  |       |   |            |                |                |  |  |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       |   |            |                |                |  |  |
| b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 4     |   |            |                |                |  |  |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5  Type of excitation a) Rotating exciters on generator b) Static excitation 6  Design Energy (Annual) 7  Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1  Maintenance Spares for WC   R. Lakh 9.2  Receivable for WC   R. Lakh 9.3  Base Rate of return on equity   %  |       | a) Surface/ underground   |            |                |                |  |  |
| d) No of hours of peaking   e) Overload capacity (MW) & period   |       | b) Purely ROR/ Pondage/ Storage   |            |                |                |  |  |
| e) Overload capacity (MW) & period  5  Type of excitation a) Rotating exciters on generator b) Static excitation 6  Design Energy (Annual)   |       |   |            |                |                |  |  |
| period   |       | d) No of hours of peaking   |            |                |                |  |  |
| 5         Type of excitation         a) Rotating exciters on generator           b) Static excitation         b) Static excitation           6         Design Energy (Annual)         Mus         0.83         0.83           7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1         Maintenance Spares for WC         Rs. Lakh           9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Installed Capacity (Bo of Units x MW)         KW         100         100           10.3         Peaking capacity during lean period (MW)         KW         100         100           10.4         Type of Turbine         Rated Head (M)         Rated Head (M)         K  |       | e) Overload capacity (MW) &   |            |                |                |  |  |
| a) Rotating exciters on generator   b) Static excitation   |       | period  |            |                |                |  |  |
| b) Static excitation   Comparison   Compar | 5     | Type of excitation  |            |                |                |  |  |
| 6         Design Energy (Annual)         Mus         0.83         0.83           7         Auxiliary Consumption including Transformation losses         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %   |       | a) Rotating exciters on generator   |            |                |                |  |  |
| 7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         8           9.1         Maintenance Spares for WC         Rs. Lakh         14           9.2         Receivable for WC         R. Lakh         14           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         10.2         Installed Capacity (Bo of Units x MW)         KW         100         100           10.3         Peaking capacity during lean period (MW)         Feaking capacity during lean period (MW)         10.5         Rated Head (M)         Installed Capacity (Material Return of Capacity (Materi  |       | b) Static excitation  |            |                |                |  |  |
| Transformation losses  | 6     | Design Energy (Annual)  | Mus        | 0.83           | 0.83           |  |  |
| Factor (NAPAF)   | 7     |   | %          | 1.00%          | 1.00%          |  |  |
| 9.1       Maintenance Spares for WC       Rs. Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type       100       100         10.2       Installed Capacity (Bo of Units x MW)       KW       100       100         10.3       Peaking capacity during lean period (MW)       Type of Turbine       Installed Head (M)       Installed Head (M)   | 8     |   | %          |                |                |  |  |
| 9.2 Receivable for WC       R. Lakh         9.3 Base Rate of return on equity       %       14       14         9.4 Tax Rate       %       Not Applicable       Not Applicable         9.5 Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1 Type       Installed Capacity (Bo of Units x MW)       KW       100       100         10.3 Peaking capacity during lean period (MW)       Peaking capacity during lean period (MW)       Installed Head (M)       Installed Head (M)   | 0.1   | ·   | Rs.        |                |                |  |  |
| 9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type       100       100         10.2       Installed Capacity (Bo of Units x MW)       KW       100       100         10.3       Peaking capacity during lean period (MW)       Type of Turbine       Type of Turbine         10.5       Rated Head (M)       Type of Turbine       Type of Turbine  | 9.1   | Maintenance Spares for WC   | Lakh       |                |                |  |  |
| 9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Installed Capacity (Bo of Units x MW)         KW         100         100           10.3         Peaking capacity during lean period (MW)         Peaking capacity during lean period (MW)         Installed Capacity (Bo of Turbine)         Installed Capacity during lean period (MW)           10.4         Type of Turbine         Installed Capacity (Bo of Turbine)         Installed Capacity (Bo of Units x MW)   | 9.2   | Receivable for WC   | R. Lakh    |                |                |  |  |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.3   | Base Rate of return on equity   | %          | 14             | 14             |  |  |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4   | Tax Rate  | %          | Not Applicable | Not Applicable |  |  |
| 10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 9.5   | =   | %          |                | 12.90%         |  |  |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine 10.5 Rated Head (M)   | 10.1  | Type  |            |                |                |  |  |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | Installed Capacity (Bo of Units x   | KW         | 100            | 100            |  |  |
| 10.5 Rated Head (M)  |       | period (MW)   |            |                |                |  |  |
|  | 10.4  | Type of Turbine   |            |                |                |  |  |
| 10.6 Rated Discharge (Cumes)   | 10.5  | Rated Head (M)  |            |                |                |  |  |
|  | 10.6  | Rated Discharge (Cumes)   |            |                |                |  |  |

Name of the Hydro Generating Station : Khet State/ Distt. Arunachal Pradesh/ Tawang District

| Detai | ls of Cod, Type of Hydro Stations,                 | Normative | Annual Plant, A | vailability Factor |  |  |  |  |
|-------|--|-----------|-----------------|--------------------|--|--|--|--|
| (NAF  | PAF)   |           |                 |                    |  |  |  |  |
|       | & other normative parameters considered for Tariff |           |                 |                    |  |  |  |  |
| Sl.   | Description  | Unit      | 2019-20         | 2020-21            |  |  |  |  |
| No.   | Description  | Omi       | (Estimated)     | (Projected)        |  |  |  |  |
| 1     | Installed Capacity                                 | KW        | 100             | 100                |  |  |  |  |
| 2     | Free Power to home state                           | %         | NIL             | NIL                |  |  |  |  |
| 3     | Date of commercial operation                       |           |                 |                    |  |  |  |  |
|       | Unit – 1   |           |                 |                    |  |  |  |  |
|       | Unit – 2   |           |                 |                    |  |  |  |  |
| 4     | Type of Station                                    |           |                 |                    |  |  |  |  |
|       | a) Surface/ underground                            |           |                 |                    |  |  |  |  |
|       | b) Purely ROR/ Pondage/ Storage                    |           |                 |                    |  |  |  |  |
|       | c) Peaking/ non-peaking                            |           |                 |                    |  |  |  |  |
|       | d) No of hours of peaking                          |           |                 |                    |  |  |  |  |
|       | e) Overload capacity (MW) &                        |           |                 |                    |  |  |  |  |
|       | period   |           |                 |                    |  |  |  |  |
| 5     | Type of excitation                                 |           |                 |                    |  |  |  |  |
|       | a) Rotating exciters on generator                  |           |                 |                    |  |  |  |  |
|       | b) Static excitation                               |           | 1               |                    |  |  |  |  |
| 6     | Design Energy (Annual)                             | Mus       | 0.83            | 0.83               |  |  |  |  |
| 7     | Auxiliary Consumption including                    | %         | 1.000/          | 1 000/             |  |  |  |  |
| /     | Transformation losses                              | %0        | 1.00%           | 1.00%              |  |  |  |  |
| 0     | Normative Plant Availability                       | %         |                 |                    |  |  |  |  |
| 8     | Factor (NAPAF)                                     | %0        |                 |                    |  |  |  |  |
| 0.1   | M. A. C. C. W.C.                                   | Rs.       |                 |                    |  |  |  |  |
| 9.1   | Maintenance Spares for WC                          | Lakh      |                 |                    |  |  |  |  |
| 9.2   | Receivable for WC                                  | R. Lakh   |                 |                    |  |  |  |  |
| 9.3   | Base Rate of return on equity                      | %         | 14              | 14                 |  |  |  |  |
| 9.4   | Tax Rate   | %         | Not Applicable  | Not Applicable     |  |  |  |  |
| 0.5   | Prime lending Rate of SBI as on                    | 0/        |                 |                    |  |  |  |  |
| 9.5   | April' 2017  | %         | 13.80%          | 12.90%             |  |  |  |  |
| 10.1  | Туре   |           |                 |                    |  |  |  |  |
| 10.2  | Installed Capacity (Bo of Units x                  | VIII      | 100             | 100                |  |  |  |  |
| 10.2  | MW)  | KW        | 100             | 100                |  |  |  |  |
| 10.2  | Peaking capacity during lean                       |           |                 |                    |  |  |  |  |
| 10.3  | period (MW)  |           |                 |                    |  |  |  |  |
| 10.4  | Type of Turbine                                    |           |                 |                    |  |  |  |  |
|       | Rated Head (M)                                     |           |                 |                    |  |  |  |  |
|       | Rated Discharge (Cumes)                            |           |                 |                    |  |  |  |  |
|       | S \ /  |           |                 |                    |  |  |  |  |

Name of the Hydro Generating Station: Tsechu Nallah

State/ Distr. Arunachal Pradesh/ Tawang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor

|      | ils of Cod, Type of Hydro Stations,         | Normative       | e Annual Plant, A | vailability Factor |
|------|---|-----------------|-------------------|--------------------|
| (NAI |   | ma at ama a a m | aidanad fan Tanif | c                  |
| CI   | & other normative para                      | meters con      |                   |                    |
| Sl.  | Description                                 | Unit            | 2019-20           | 2020-21            |
| No.  | -   | 77777           | (Estimated)       | (Projected)        |
| 1    | Installed Capacity                          | KW              | 100               | 100                |
| 2    | Free Power to home state                    | %               | NIL               | NIL                |
| 3    | Date of commercial operation                |                 |                   |                    |
|      | Unit – 1                                    |                 |                   |                    |
|      | Unit – 2                                    |                 |                   |                    |
| 4    | Type of Station                             |                 |                   |                    |
|      | a) Surface/ underground                     |                 |                   |                    |
|      | b) Purely ROR/ Pondage/ Storage             |                 |                   |                    |
|      | c) Peaking/ non-peaking                     |                 |                   |                    |
|      | d) No of hours of peaking                   |                 |                   |                    |
|      | e) Overload capacity (MW) &                 |                 |                   |                    |
|      | period                                      |                 |                   |                    |
| 5    | Type of excitation                          |                 |                   |                    |
|      | a) Rotating exciters on generator           |                 |                   |                    |
|      | b) Static excitation                        |                 | 1                 |                    |
| 6    | Design Energy (Annual)                      | Mus             | 0.83              | 0.83               |
| 7    | Auxiliary Consumption including             | 0./             | 1.000/            | 1.000/             |
| 7    | Transformation losses                       | %               | 1.00%             | 1.00%              |
| 0    | Normative Plant Availability                | 0./             |                   |                    |
| 8    | Factor (NAPAF)                              | %               |                   |                    |
| 0.1  | ·   | Rs.             |                   |                    |
| 9.1  | Maintenance Spares for WC                   | Lakh            |                   |                    |
| 9.2  | Receivable for WC                           | R. Lakh         |                   |                    |
|      | Base Rate of return on equity               | %               | 14                | 14                 |
|      | Tax Rate                                    | %               | Not Applicable    | Not Applicable     |
|      | Prime lending Rate of SBI as on April' 2017 | %               | 13.80%            | 12.90%             |
| 10.1 | Type  |                 |                   |                    |
|      | Installed Capacity (Bo of Units x           |                 |                   |                    |
| 10.2 | MW)   | KW              | 100               | 100                |
| 10.3 | Peaking capacity during lean period (MW)    |                 |                   |                    |
| 10.4 | Type of Turbine                             |                 |                   |                    |
|      | Rated Head (M)                              |                 |                   |                    |
| 10.5 |   |                 |                   |                    |

Name of the Hydro Generating Station : Mago MHS State/ Distt. Arunachal Pradesh/ West Kameng

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAI | PAF)  |             |                   | ·              |
|------|---|-------------|-------------------|----------------|
|      | & other normative para                      | meters cor  | sidered for Tarif | f              |
| Sl.  | D   | TT. '4      | 2019-20           | 2020-21        |
| No.  | Description                                 | Unit        | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                          | KW          | 100               | 100            |
| 2    | Free Power to home state                    | %           | NIL               | NIL            |
| 3    | Date of commercial operation                |             |                   |                |
|      | Unit – 1                                    |             |                   |                |
|      | Unit – 2                                    |             |                   |                |
| 4    | Type of Station                             |             |                   |                |
|      | a) Surface/ underground                     |             |                   |                |
|      | b) Purely ROR/ Pondage/ Storage             |             |                   |                |
|      | c) Peaking/ non-peaking                     |             |                   |                |
|      | d) No of hours of peaking                   |             |                   |                |
|      | e) Overload capacity (MW) &                 |             |                   |                |
|      | period                                      |             |                   |                |
| 5    | Type of excitation                          |             |                   |                |
|      | a) Rotating exciters on generator           |             |                   |                |
|      | b) Static excitation                        |             | 1                 |                |
| 6    | Design Energy (Annual)                      | Mus         | 0.83              | 0.83           |
| 7    | Auxiliary Consumption including             | %           | 1.00%             | 1.00%          |
| /    | Transformation losses                       | %0          | 1.00%             | 1.00%          |
| 8    | Normative Plant Availability                | %           |                   |                |
| 0    | Factor (NAPAF)                              | 70          |                   |                |
| 9.1  | Maintenance Spares for WC                   | Rs.<br>Lakh |                   |                |
| 9.2  | Receivable for WC                           | R. Lakh     |                   |                |
| 9.3  | Base Rate of return on equity               | %           | 14                | 14             |
| 9.4  | Tax Rate                                    | %           | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%            | 12.90%         |
| 10.1 | Туре  |             |                   |                |
| 10.2 | Installed Capacity (Bo of Units x MW)       | KW          | 100               | 100            |
| 10.3 | Peaking capacity during lean period (MW)    |             |                   |                |
|      | Type of Turbine                             |             |                   |                |
|      | Rated Head (M)                              |             |                   |                |
| 10.6 | Rated Discharge (Cumes)                     |             |                   |                |

Name of the Hydro Generating Station : Nuranang State/ Distt. Arunachal Pradesh/ Tawang District

|         | Distr. Arunachal Pradesh/ Tawang Distri     |              | Namt Arrailability F | noton (NADAE)  |
|---------|---|--------------|----------------------|----------------|
| Details | of Cod, Type of Hydro Stations, Normati     |              |                      | actor (NAPAF)  |
| C1      | & other normative param                     | icters consi |                      | 2020 21        |
| Sl.     | Description                                 | Unit         | 2019-20              | 2020-21        |
| No.     | -   | ****         | (Estimated)          | (Projected)    |
| 1       | Installed Capacity                          | KW           | 6000                 | 6000           |
| 2       | Free Power to home state                    | %            | NIL                  | NIL            |
| 3       | Date of commercial operation                |              |                      |                |
|         | Unit – 1                                    |              |                      | _              |
|         | Unit – 2                                    |              |                      |                |
|         | Unit – 3                                    |              |                      |                |
| 4       | Type of Station                             |              |                      |                |
| ,       | a) Surface/ underground                     |              |                      |                |
|         | b) Purely ROR/ Pondage/ Storage             |              |                      |                |
|         | c) Peaking/ non-peaking                     |              |                      |                |
|         | d) No of hours of peaking                   |              |                      |                |
|         | e) Overload capacity (MW) & period          |              |                      |                |
| 5       | Type of excitation                          |              |                      |                |
|         | a) Rotating exciters on generator           |              |                      |                |
|         | b) Static excitation                        |              |                      |                |
| 6       | Design Energy (Annual)                      | Mus          | 49.93                | 49.93          |
|         | Auxiliary Consumption including             | Ivius        | 77.73                | 77.73          |
| 7       | Transformation losses                       | %            | 1.00%                | 1.00%          |
|         | Normative Plant Availability Factor         |              |                      |                |
| 8       | · · · · · · · · · · · · · · · · · · ·       | %            |                      |                |
|         | (NAPAF)                                     | D            |                      |                |
| 9.1     | Maintenance Spares for WC                   | Rs.<br>Lakh  |                      |                |
| 9.2     | Receivable for WC                           | R. Lakh      |                      |                |
| 9.3     | Base Rate of return on equity               | %            | 14                   | 14             |
| 9.4     | Tax Rate                                    | %            | Not Applicable       | Not Applicable |
| 9.5     | Prime lending Rate of SBI as on April' 2017 | %            | 13.80%               | 12.90%         |
| 10.1    | Type  |              |                      |                |
| 10.2    | Installed Capacity (Bo of Units x MW)       | KW           | 6000                 | 6000           |
| 10.3    | Peaking capacity during lean period (MW)    |              |                      |                |
| 10.4    | Type of Turbine                             |              |                      |                |
| 10.5    | Rated Head (M)                              |              |                      |                |
| 10.6    | Rated Discharge (Cumes)                     |              |                      |                |
|         |   |              |                      |                |

Name of the Hydro Generating Station : Kitpi Ph-I State/ Distt.: Arunachal Pradesh/ Tawang District

|  | s of Cod, Type of Hydro Stations,  | Normative  | e Annual Plant, Availa | ability Factor         |  |  |
|--|------------------------------------|------------|------------------------|------------------------|--|--|
| (NAPAF) & other normative parameters considered for Tariff |                                    |            |                        |                        |  |  |
| C1   | & other normative pa               | rameters ( |                        | 2020.21                |  |  |
| Sl.<br>No.   | Description                        | Unit       | 2019-20<br>(Estimated) | 2020-21<br>(Projected) |  |  |
|  | Installed Capacity                 | KW         | 1500                   | 1500                   |  |  |
|  | Free Power to home state           | %          | NIL                    | NIL                    |  |  |
|  | Date of commercial operation       | ,,,        | 1,12                   | 1,12                   |  |  |
|  | Unit – 1                           |            |                        |                        |  |  |
|  | Unit – 2                           |            |                        |                        |  |  |
|  | Unit – 3                           |            |                        |                        |  |  |
| 4  | Type of Station                    |            |                        |                        |  |  |
| 8  | a) Surface/ underground            |            |                        |                        |  |  |
| 1  | b) Purely ROR/ Pondage/ Storage    |            |                        |                        |  |  |
| (  | c) Peaking/ non-peaking            |            |                        |                        |  |  |
|  | d) No of hours of peaking          |            |                        |                        |  |  |
| ¢  | e) Overload capacity (MW) &        |            |                        |                        |  |  |
| - 11   | period                             |            |                        |                        |  |  |
|  | Type of excitation                 |            |                        |                        |  |  |
|  | a) Rotating exciters on generator  |            |                        |                        |  |  |
|  | b) Static excitation               |            |                        |                        |  |  |
|  | Design Energy (Annual)             | Mus        | 12.48                  | 12.48                  |  |  |
| /  | Auxiliary Consumption including    | %          | 1.00%                  | 1.00%                  |  |  |
|  | Transformation losses              |            |                        |                        |  |  |
| 1 X I  | Normative Plant Availability       | %          |                        |                        |  |  |
|  | Factor (NAPAF)                     |            |                        |                        |  |  |
| 9.1  | Maintenance Spares for WC          | Rs.        |                        |                        |  |  |
| 9.2  | Receivable for WC                  | Lakh       |                        |                        |  |  |
|  | Base Rate of return on equity      | %          | 14                     | 14                     |  |  |
|  | Tax Rate                           | %          | Not Applicable         | Not Applicable         |  |  |
|  | Prime lending Rate of SBI as on    |            | **                     |                        |  |  |
| 951  | April' 2019                        | %          | 13.80%                 | 12.90%                 |  |  |
| 10.1   |                                    |            |                        |                        |  |  |
|  | Installed Capacity (No. of Units x | KW         | 1500                   | 1500                   |  |  |
| 10.2   | KW)                                | KW         | 1500                   | 1500                   |  |  |
| 10.3   | Peaking capacity during lean       |            |                        |                        |  |  |
| 1  | period (MW)                        |            |                        |                        |  |  |
| 10.4   | Type of Turbine                    |            |                        |                        |  |  |
|  | Rated Head (M)                     |            |                        |                        |  |  |
| 10.6   | Rated Discharge (Cumes)            |            |                        |                        |  |  |

Name of the Hydro Generating Station : Kitpi MHS Ph-II State/ Distt. Arunachal Pradesh/ Tawang District

|        | ls of Cod, Type of Hydro Stations,                    |             | Annual Dlant A        | voilobility    |
|--------|---|-------------|-----------------------|----------------|
|        | or (NAPAF)  | Normany     | Z Allitual I lailt, A | vanaomity      |
| 1 acto | & other normative para                                | meters cor  | sidered for Tarif     | f              |
| Sl.    | *   | incters con | 2019-20               | 2020-21        |
| No.    | Description   | Unit        | (Estimated)           | (Projected)    |
| 1      | Installed Capacity                                    | KW          | 3000                  | 3000           |
| 2      | Free Power to home state                              | %           | NIL                   | NIL            |
| 3      | Date of commercial operation                          | 70          | TVIL                  | TVIL           |
|        | Unit – 1  |             |                       |                |
|        | Unit – 2  |             |                       |                |
| 4      | Type of Station                                       |             |                       |                |
|        | a) Surface/ underground                               |             |                       |                |
|        | b) Purely ROR/ Pondage/ Storage                       |             |                       |                |
|        | c) Peaking/ non-peaking                               |             |                       |                |
|        | d) No of hours of peaking                             |             |                       |                |
|        | e) Overload capacity (MW) &                           |             |                       |                |
|        | period  |             |                       |                |
| 5      | Type of excitation                                    |             |                       |                |
|        | a) Rotating exciters on generator                     |             |                       |                |
|        | b) Static excitation                                  |             | 1                     |                |
| 6      | Design Energy (Annual)                                | Mus         | 24.97                 | 24.97          |
| 7      | Auxiliary Consumption including Transformation losses | %           | 1.00%                 | 1.00%          |
| 8      | Normative Plant Availability<br>Factor (NAPAF)        | %           |                       |                |
| 0.1    | ·   | Rs.         |                       |                |
| 9.1    | Maintenance Spares for WC                             | Lakh        |                       |                |
| 9.2    | Receivable for WC                                     | R. Lakh     |                       |                |
| 9.3    | Base Rate of return on equity                         | %           | 14                    | 14             |
|        | Tax Rate  | %           | Not Applicable        | Not Applicable |
| 9.5    | Prime lending Rate of SBI as on April' 2017           | %           | 13.80%                | 12.90%         |
| 10.1   | •   |             |                       |                |
|        | Installed Capacity (Bo of Units x MW)                 | KW          | 3000                  | 3000           |
| 10.3   | Peaking capacity during lean period (MW)              |             |                       |                |
|        | Type of Turbine                                       |             |                       |                |
|        | Rated Head (M)  |             |                       |                |
| 10.6   | Rated Discharge (Cumes)                               |             |                       |                |

# Name of the Hydro Generating Station : T. Gompa State/ Distt. Arunachal Pradesh/ Tawang District

|      | ls of Cod, Type of Hydro Stations, N        | Vormative A  | Annual Plant, Ava | ilability Factor |
|------|---|--------------|-------------------|------------------|
| (NAP | & other normative para                      | motors oor   | sidered for Torif | f                |
| Sl.  | & other normative para                      | illeters cor | 2019-20           | 2020-21          |
| No.  | Description                                 | Unit         | (Estimated)       | (Projected)      |
| 1    | Installed Capacity                          | KW           | 50                | 50               |
| 2    | Free Power to home state                    | %            | NIL               | NIL              |
| 3    | Date of commercial operation                | , ,          | 1,12              | TUL              |
|      | Unit – 1                                    |              |                   |                  |
| 4    | Type of Station                             |              |                   |                  |
|      | a) Surface/ underground                     |              |                   |                  |
|      | b) Purely ROR/ Pondage/ Storage             |              |                   |                  |
|      | c) Peaking/ non-peaking                     |              |                   |                  |
|      | d) No of hours of peaking                   |              |                   |                  |
|      | e) Overload capacity (MW) &                 |              |                   |                  |
|      | period                                      |              |                   |                  |
| 5    | Type of excitation                          |              |                   |                  |
|      | a) Rotating exciters on generator           |              |                   |                  |
|      | b) Static excitation                        |              |                   |                  |
| 6    | Design Energy (Annual)                      | Mus          | 0.42              | 0.42             |
| 7    | Auxiliary Consumption including             | %            | 1.00%             | 1.00%            |
| ,    | Transformation losses                       | 70           | 1.0070            | 1.0070           |
| 8    | Normative Plant Availability                | %            |                   |                  |
| 0    | Factor (NAPAF)                              | 70           |                   |                  |
| 9.1  | Maintenance Spares for WC                   | Rs.<br>Lakh  |                   |                  |
| 9.2  | Receivable for WC                           | R. Lakh      |                   |                  |
| 9.3  | Base Rate of return on equity               | %            | 14                | 14               |
| 9.4  | Tax Rate                                    | %            | Not Applicable    | Not Applicable   |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %            | 13.80%            | 12.90%           |
| 10.1 | Туре  |              |                   |                  |
| 10.2 | Installed Capacity (Bo of Units x MW)       | KW           | 50                | 50               |
| 10.3 | Peaking capacity during lean period (MW)    |              |                   |                  |
| 10.4 | Type of Turbine                             |              |                   |                  |
|      | Rated Head (M)                              |              |                   |                  |
| 10.6 | Rated Discharge (Cumes)                     |              |                   |                  |

Name of the Hydro Generating Station : Bongleng State/ Distt. Arunachal Pradesh/ Tawang District

| Detai | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAF  | /   |            |                   |                    |
|       | & other normative para                                | meters cor | sidered for Tarif | f                  |
| Sl.   | Description   | Unit       | 2019-20           | 2020-21            |
| No.   | •   |            | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                                    | KW         | 100               | 100                |
| 2     | Free Power to home state                              | %          | NIL               | NIL                |
| 3     | Date of commercial operation                          |            |                   |                    |
|       | Unit – 1  |            |                   |                    |
|       | Unit – 2  |            |                   |                    |
| 4     | Type of Station                                       |            |                   |                    |
|       | a) Surface/ underground                               |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage                       |            |                   |                    |
|       | c) Peaking/ non-peaking                               |            |                   |                    |
|       | d) No of hours of peaking                             |            |                   |                    |
|       | e) Overload capacity (MW) &                           |            |                   |                    |
|       | period  |            |                   |                    |
| 5     | Type of excitation                                    |            |                   |                    |
|       | a) Rotating exciters on generator                     |            |                   |                    |
|       | b) Static excitation                                  |            | 1                 |                    |
| 6     | Design Energy (Annual)                                | Mus        | 0.83              | 0.83               |
| 7     | Auxiliary Consumption including Transformation losses | %          | 1.00%             | 1.00%              |
| 8     | Normative Plant Availability Factor (NAPAF)           | %          |                   |                    |
| 0.1   | ,   | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                   |                    |
| 9.2   | Receivable for WC                                     | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity                         | %          | 14                | 14                 |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%            | 12.90%             |
| 10.1  | Туре  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)                 | KW         | 100               | 100                |
| 10.3  | Peaking capacity during lean period (MW)              |            |                   |                    |
|       | Type of Turbine                                       |            |                   |                    |
|       | Rated Head (M)  |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                               |            |                   |                    |

Name of the Hydro Generating Station : Bramdhongchung State/ Distt. Arunachal Pradesh/ Tawang District

|        | ls of Cod, Type of Hydro Stations,                    |                | Annual Plant A          | vailability    |
|--------|---|----------------|-------------------------|----------------|
|        | or (NAPAF)  | 1 (Ollinati) ( | 7 11111441 1 14111, 7 1 | · · unuo mi    |
| 1 4010 | & other normative para:                               | meters cor     | sidered for Tarif       | f              |
| Sl.    | •   |                | 2019-20                 | 2020-21        |
| No.    | Description   | Unit           | (Estimated)             | (Projected)    |
| 1      | Installed Capacity                                    | KW             | 100                     | 100            |
| 2      | Free Power to home state                              | %              | NIL                     | NIL            |
| 3      | Date of commercial operation                          |                |                         |                |
|        | Unit – 1  |                |                         |                |
|        | Unit – 2  |                |                         |                |
| 4      | Type of Station                                       |                |                         |                |
|        | a) Surface/ underground                               |                |                         |                |
|        | b) Purely ROR/ Pondage/ Storage                       |                |                         |                |
|        | c) Peaking/ non-peaking                               |                |                         |                |
|        | d) No of hours of peaking                             |                |                         |                |
|        | e) Overload capacity (MW) &                           |                |                         |                |
|        | period  |                |                         |                |
| 5      | Type of excitation                                    |                |                         |                |
|        | a) Rotating exciters on generator                     |                |                         |                |
|        | b) Static excitation                                  |                |                         |                |
| 6      | Design Energy (Annual)                                | Mus            | 0.83                    | 0.83           |
| 7      | Auxiliary Consumption including Transformation losses | %              | 1.00%                   | 1.00%          |
| 8      | Normative Plant Availability<br>Factor (NAPAF)        | %              |                         |                |
| 0.1    | , , ,   | Rs.            |                         |                |
| 9.1    | Maintenance Spares for WC                             | Lakh           |                         |                |
| 9.2    | Receivable for WC                                     | R. Lakh        |                         |                |
| 9.3    | Base Rate of return on equity                         | %              | 14                      | 14             |
| 9.4    | Tax Rate  | %              | Not Applicable          | Not Applicable |
| 9.5    | Prime lending Rate of SBI as on April' 2017           | %              | 13.80%                  | 12.90%         |
| 10.1   | Туре  |                |                         |                |
|        | Installed Capacity (Bo of Units x MW)                 | KW             | 100                     | 100            |
| 10.3   | Peaking capacity during lean period (MW)              |                |                         |                |
| 10.4   | Type of Turbine                                       |                |                         |                |
| 10.5   | Rated Head (M)  |                |                         |                |
| 10.6   | Rated Discharge (Cumes)                               |                |                         |                |

Name of the Hydro Generating Station : Bramdhongchung Ph-II

State/ Distt. Arunachal Pradesh/ Tawang District

| Detai | ils of Cod, Type of Hydro Stations,                   | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAI  | PAF)  |            |                   |                    |
|       | & other normative para                                | meters cor | sidered for Tarif | f                  |
| Sl.   | Description   | Unit       | 2019-20           | 2020-21            |
| No.   | Description   | Ollit      | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                                    | KW         | 100               | 100                |
| 2     | Free Power to home state                              | %          | NIL               | NIL                |
| 3     | Date of commercial operation                          |            |                   |                    |
|       | Unit – 1  |            |                   |                    |
|       | Unit – 2  |            |                   |                    |
| 4     | Type of Station                                       |            |                   |                    |
|       | a) Surface/ underground                               |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage                       |            |                   |                    |
|       | c) Peaking/ non-peaking                               |            |                   |                    |
|       | d) No of hours of peaking                             |            |                   |                    |
|       | e) Overload capacity (MW) &                           |            |                   |                    |
|       | period  |            |                   |                    |
| 5     | Type of excitation                                    |            |                   |                    |
|       | a) Rotating exciters on generator                     |            |                   |                    |
|       | b) Static excitation                                  |            | 1                 |                    |
| 6     | Design Energy (Annual)                                | Mus        | 0.83              | 0.83               |
| 7     | Auxiliary Consumption including Transformation losses | %          | 1.00%             | 1.00%              |
| 8     | Normative Plant Availability<br>Factor (NAPAF)        | %          |                   |                    |
| 0.1   | ·   | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                   |                    |
| 9.2   | Receivable for WC                                     | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity                         | %          | 14                | 14                 |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%            | 12.90%             |
| 10.1  | Туре  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)                 | KW         | 100               | 100                |
| 10.3  | period (MW)   |            |                   |                    |
| 10.4  | Type of Turbine                                       |            |                   |                    |
|       | Rated Head (M)  |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                               |            |                   |                    |

Name of the Hydro Generating Station : Mukto State/ Distt. Arunachal Pradesh/ Dibang Valley District

| _      | ils of Cod, Type of Hydro Stations,                      |            |                    | vailability Factor |
|--------|--|------------|--------------------|--------------------|
| (NAF   | **   | Nomative   | Allituai Fiaili, A | valiability Factor |
| (11111 | & other normative para                                   | meters cor | sidered for Tarif  | f                  |
| Sl.    | _  |            | 2019-20            | 2020-21            |
| No.    | Description  | Unit       | (Estimated)        | (Projected)        |
| 1      | Installed Capacity                                       | KW         | 6000               | 6000               |
| 2      | Free Power to home state                                 | %          | NIL                | NIL                |
| 3      | Date of commercial operation                             |            |                    |                    |
|        | Unit – 1   |            |                    |                    |
|        | Unit – 2   |            |                    |                    |
|        | Unit – 3   |            |                    |                    |
| 4      | Type of Station  |            |                    |                    |
|        | a) Surface/ underground                                  |            |                    |                    |
|        | b) Purely ROR/ Pondage/ Storage                          |            |                    |                    |
|        | c) Peaking/ non-peaking                                  |            |                    |                    |
|        | d) No of hours of peaking MHS                            |            |                    |                    |
|        | e) Overload capacity (MW) &                              |            |                    |                    |
|        | period   |            |                    |                    |
| 5      | Type of excitation                                       |            |                    |                    |
|        | a) Rotating exciters on generator                        |            |                    |                    |
|        | b) Static excitation                                     |            |                    |                    |
| 6      | Design Energy (Annual)                                   | Mus        | 49.93              | 49.93              |
| 7      | Auxiliary Consumption including<br>Transformation losses | %          | 1.00%              | 1.00%              |
| 8      | Normative Plant Availability Factor (NAPAF)              | %          |                    |                    |
| 0.1    | M : 4 G G WG   | Rs.        |                    |                    |
| 9.1    | Maintenance Spares for WC                                | Lakh       |                    |                    |
| 9.2    | Receivable for WC  | R. Lakh    |                    |                    |
| 9.3    | Base Rate of return on equity                            | %          | 14                 | 14                 |
| 9.4    | Tax Rate   | %          | Not Applicable     | Not Applicable     |
| 9.5    | Prime lending Rate of SBI as on April' 2017              | %          | 13.80%             | 12.90%             |
| 10.1   | Type   |            |                    |                    |
| 10.2   | Installed Capacity (Bo of Units x MW)                    | KW         | 6000               | 6000               |
| 10.3   | Peaking capacity during lean period (MW)                 |            |                    |                    |
| 10.4   | Type of Turbine  |            |                    |                    |
|        | Rated Head (M)   |            |                    |                    |
|        | Rated Discharge (Cumes)                                  |            |                    |                    |
|        | 0 \ /  |            |                    |                    |

Name of the Hydro Generating Station : Nuranag Ph-II State/ Distr. Arunachal Pradesh/ Dibang Valley District

|      | / Distt. Arunachal Pradesh/ Dibang          | •          |                   |                    |
|------|---|------------|-------------------|--------------------|
|      | ls of Cod, Type of Hydro Stations,          | Normative  | Annual Plant, A   | vailability Factor |
| (NAI | ,   |            |                   |                    |
|      | & other normative para                      | meters cor | sidered for Tarif | f                  |
| Sl.  | Dogarintian                                 | Unit       | 2019-20           | 2020-21            |
| No.  | Description                                 | Ullit      | (Estimated)       | (Projected)        |
| 1    | Installed Capacity                          | KW         | 1000              | 1000               |
| 2    | Free Power to home state                    | %          | NIL               | NIL                |
| 3    | Date of commercial operation                |            |                   |                    |
|      | Unit – 1                                    |            |                   |                    |
|      | Unit – 2                                    |            |                   |                    |
| 4    | Type of Station                             |            |                   |                    |
|      | a) Surface/ underground                     |            |                   |                    |
|      | b) Purely ROR/ Pondage/ Storage             |            |                   |                    |
|      | c) Peaking/ non-peaking                     |            |                   |                    |
|      | d) No of hours of peaking MHS               |            |                   |                    |
|      | e) Overload capacity (MW) &                 |            |                   |                    |
|      | period                                      |            |                   |                    |
| 5    | Type of excitation                          |            |                   |                    |
|      | a) Rotating exciters on generator           |            |                   |                    |
|      | b) Static excitation                        |            | 1                 |                    |
| 6    | Design Energy (Annual)                      | Mus        | 8.32              | 8.32               |
| 7    | Auxiliary Consumption including             | 0/         | 1.000/            | 1 000/             |
| 7    | Transformation losses                       | %          | 1.00%             | 1.00%              |
| 0    | Normative Plant Availability                | 0/         |                   |                    |
| 8    | Factor (NAPAF)                              | %          |                   |                    |
| 0.1  |   | Rs.        |                   |                    |
| 9.1  | Maintenance Spares for WC                   | Lakh       |                   |                    |
| 9.2  | Receivable for WC                           | R. Lakh    |                   |                    |
| 9.3  | Base Rate of return on equity               | %          | 14                | 14                 |
|      | Tax Rate                                    | %          | Not Applicable    | Not Applicable     |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%            | 12.90%             |
| 10.1 | Туре  |            |                   |                    |
|      | Installed Capacity (Bo of Units x MW)       | KW         | 1000              | 1000               |
| 10.3 | Peaking capacity during lean period (MW)    |            |                   |                    |
| 10.4 | Type of Turbine                             |            |                   |                    |
|      | Rated Head (M)                              |            |                   |                    |
|      | Rated Discharge (Cumes)                     |            |                   |                    |
| 10.0 | raica Discharge (Culles)                    | l          | I                 |                    |

#### Name of the Hydro Generating Station : Rahung State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff 2020-21 Sl. 2019-20 Unit Description (Estimated) No. (Projected) 750 Installed Capacity KW 750 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit – 2 Unit - 3Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 6.24 6.24 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 14 % 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 750 750 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

#### Name of the Hydro Generating Station : Dirang State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description (Estimated) No. (Projected) Installed Capacity 1 KW 2000 2000 2 Free Power to home state NIL NIL % Date of commercial operation Unit -1Unit – 2 Unit - 3Unit - 44 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 16.64 16.64 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 2000 2000 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Saktangrong MHS State/ Distt. Arunachal Pradesh/ West Kameng District

| _      | ils of Cod, Type of Hydro Stations,      |            |                    | voilability Factor |
|--------|--|------------|--------------------|--------------------|
| (NAI   | **                                       | normanve   | Aimuai Piam, A     | vanaomity ractor   |
| (11/11 | & other normative para                   | meters con | sidered for Tariff | f                  |
| Sl.    | _  | meters con | 2019-20            | 2020-21            |
| No.    | Description                              | Unit       | (Estimated)        | (Projected)        |
| 1      | Installed Capacity                       | KW         | 300                | 300                |
| 2      | Free Power to home state                 | %          | NIL                | NIL                |
| 3      | Date of commercial operation             | 70         | TVIE               | TVIL               |
|        | Unit – 1                                 |            |                    |                    |
|        | Unit – 2                                 |            |                    |                    |
|        | Unit – 3                                 |            |                    |                    |
| 4      | Type of Station                          |            |                    |                    |
|        | a) Surface/ underground                  |            |                    |                    |
|        | a) Surface, underground                  |            |                    |                    |
|        | b) Purely ROR/ Pondage/ Storage          |            |                    |                    |
|        | c) Peaking/ non-peaking                  |            |                    |                    |
|        | d) No of hours of peaking                |            |                    |                    |
|        | e) Overload capacity (MW) &              |            |                    |                    |
|        | period                                   |            |                    |                    |
| 5      | Type of excitation                       |            |                    |                    |
|        | a) Rotating exciters on generator        |            |                    |                    |
|        | b) Static excitation                     |            |                    |                    |
| 6      | Design Energy (Annual)                   | Mus        | 2.50               | 2.50               |
| 7      | Auxiliary Consumption including          | %          | 1.00%              | 1.00%              |
| /      | Transformation losses                    | %0         | 1.00%              | 1.0070             |
| 8      | Normative Plant Availability             | %          |                    |                    |
| 0      | Factor (NAPAF)                           | %0         |                    |                    |
| 0.1    | Maintananaa Smaraa fan W.C.              | Rs.        |                    |                    |
| 9.1    | Maintenance Spares for WC                | Lakh       |                    |                    |
| 9.2    | Receivable for WC                        | R. Lakh    |                    |                    |
| 9.3    | Base Rate of return on equity            | %          | 14                 | 14                 |
| 9.4    | Tax Rate                                 | %          | Not Applicable     | Not Applicable     |
| 9.5    | Prime lending Rate of SBI as on          | %          | 13.80%             | 12.90%             |
| 9.3    | April' 2017                              | %0         | 13.80%             | 12.90%             |
| 10.1   | Туре                                     |            |                    |                    |
| 10.2   | Installed Capacity (Bo of Units x MW)    | KW         | 300                | 300                |
| 10.3   | Peaking capacity during lean period (MW) |            |                    |                    |
| 10.4   | Type of Turbine                          |            |                    |                    |
|        | Rated Head (M)                           |            |                    |                    |
|        |  |            | 1                  |                    |

Name of the Hydro Generating Station : Zhongdongrong State/ Distt. Arunachal Pradesh/ West Kameng District

|      | Distt. Arunachal Pradesh/ West K      |            |                 |                    |
|------|---------------------------------------|------------|-----------------|--------------------|
|      | ls of Cod, Type of Hydro Stations,    | Normative  | Annual Plant, A | vailability Factor |
| (NAI |                                       |            |                 |                    |
|      | & other normative para                | meters con |                 | f                  |
| Sl.  | Description                           | Unit       | 2019-20         | 2020-21            |
| No.  | Description                           | Oilit      | (Estimated)     | (Projected)        |
| 1    | Installed Capacity                    | KW         | 1000            | 1000               |
| 2    | Free Power to home state              | %          | NIL             | NIL                |
| 3    | Date of commercial operation          |            |                 |                    |
|      | Unit – 1                              |            |                 |                    |
|      | Unit – 2                              |            |                 |                    |
| 4    | Type of Station                       |            |                 |                    |
|      | a) Surface/ underground               |            |                 |                    |
|      | b) Purely ROR/ Pondage/ Storage       |            |                 |                    |
|      | c) Peaking/ non-peaking               |            |                 |                    |
|      | d) No of hours of peaking             |            |                 |                    |
|      | e) Overload capacity (MW) &           |            |                 |                    |
|      | period                                |            |                 |                    |
| 5    | Type of excitation                    |            |                 |                    |
|      | a) Rotating exciters on generator     |            |                 |                    |
|      | b) Static excitation                  |            |                 |                    |
| 6    | Design Energy (Annual)                | Mus        | 8.32            | 8.32               |
| 7    | Auxiliary Consumption including       |            | 1.000/          | 1.000/             |
| /    | Transformation losses                 | %          | 1.00%           | 1.00%              |
| 0    | Normative Plant Availability          | 0/         |                 |                    |
| 8    | Factor (NAPAF)                        | %          |                 |                    |
| 0.1  | M · A C C WC                          | Rs.        |                 |                    |
| 9.1  | Maintenance Spares for WC             | Lakh       |                 |                    |
| 9.2  | Receivable for WC                     | R. Lakh    |                 |                    |
| 9.3  | Base Rate of return on equity         | %          | 14              | 14                 |
| 9.4  | Tax Rate                              | %          | Not Applicable  | Not Applicable     |
| 9.5  | Prime lending Rate of SBI as on       | %          |                 | 12 000/            |
| 9.5  | April' 2017                           | %0         | 13.80%          | 12.90%             |
| 10.1 | Type                                  |            |                 |                    |
| 10.2 | Installed Capacity (Bo of Units x MW) | KW         | 1000            | 1000               |
| 10.0 | Peaking capacity during lean          |            |                 |                    |
| 10.3 | period (MW)                           |            |                 |                    |
| 10.4 | Type of Turbine                       |            |                 |                    |
|      | Rated Head (M)                        |            |                 |                    |
|      | Rated Discharge (Cumes)               |            |                 |                    |
|      |                                       |            |                 | ·                  |

Name of the Hydro Generating Station : Sessa

State/ Distt. Arunachal Pradesh/ West Kameng District

| Detai | ls of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A   | vailability Factor |
|-------|------------------------------------|------------|-------------------|--------------------|
| (NAP  | /                                  |            |                   |                    |
|       | & other normative para             | meters con | sidered for Tarif | f                  |
| Sl.   | Description                        | Unit       | 2019-20           | 2020-21            |
| No.   | Description                        | Ollit      | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                 | KW         | 1500              | 1500               |
| 2     | Free Power to home state           | %          | NIL               | NIL                |
| 3     | Date of commercial operation       |            |                   |                    |
|       | Unit – 1                           |            |                   |                    |
|       | Unit – 2                           |            |                   |                    |
|       | Unit – 3                           |            |                   |                    |
| 4     | Type of Station                    |            |                   |                    |
|       | a) Surface/ underground            |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage    |            |                   |                    |
|       | ,                                  |            |                   |                    |
|       | c) Peaking/ non-peaking            |            |                   |                    |
|       | d) No of hours of peaking          |            |                   |                    |
|       | e) Overload capacity (MW) &        |            |                   |                    |
|       | period                             |            |                   |                    |
| 5     | Type of excitation                 |            |                   |                    |
|       | a) Rotating exciters on generator  |            |                   |                    |
|       | b) Static excitation               |            |                   |                    |
| 6     | Design Energy (Annual)             | Mus        | 12.48             | 12.48              |
| 7     | Auxiliary Consumption including    | %          | 1.00%             | 1.00%              |
| ,     | Transformation losses              | 70         | 1.0070            | 1.0070             |
| 8     | Normative Plant Availability       | %          |                   |                    |
| 0     | Factor (NAPAF)                     | /0         |                   |                    |
| 9.1   | Maintananaa Sparas for WC          | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC          | Lakh       |                   |                    |
| 9.2   | Receivable for WC                  | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity      | %          | 14                | 14                 |
|       | Tax Rate                           | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on    | 0/         |                   |                    |
| 9.3   | April' 2017                        | %          | 13.80%            | 12.90%             |
| 10.1  | Туре                               |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x  | VW.        | 1500              | 1500               |
| 10.2  | MW)                                | KW         | 1500              | 1500               |
| 10.2  | Peaking capacity during lean       |            |                   |                    |
| 10.3  | period (MW)                        |            |                   |                    |
|       |                                    |            | ì                 |                    |
| 10.4  | Type of Turbine                    |            |                   |                    |
|       | * ` ′                              |            |                   |                    |

## Name of the Hydro Generating Station : Rupa

## State/ Distt. Arunachal Pradesh/ West Kameng District

|            | ils of Cod, Type of Hydro Stations,                   | Normative    | Annual Plant, A        | vailability Factor     |
|------------|---|--------------|------------------------|------------------------|
| (NAI       | AF) & other normative para                            | matara aar   | sidered for Tarif      | f                      |
| CI         | & other normative para                                | illeters con |                        |                        |
| Sl.<br>No. | Description   | Unit         | 2019-20<br>(Estimated) | 2020-21<br>(Projected) |
| 1          | Installed Capacity                                    | KW           | 200                    | 200                    |
| 2          | Free Power to home state                              | %            | NIL                    | NIL                    |
| 3          | Date of commercial operation                          | 70           | TILE                   | TUL                    |
|            | Unit – 1  |              |                        |                        |
|            | Unit – 2  |              |                        |                        |
| 4          | Type of Station                                       |              |                        |                        |
|            | a) Surface/ underground                               |              |                        |                        |
|            | b) Purely ROR/ Pondage/ Storage                       |              |                        |                        |
|            | c) Peaking/ non-peaking                               |              |                        |                        |
|            | d) No of hours of peaking                             |              |                        |                        |
|            | e) Overload capacity (MW) &                           |              |                        |                        |
|            | period  |              |                        |                        |
| 5          | Type of excitation                                    |              |                        |                        |
|            | a) Rotating exciters on generator                     |              | ]                      |                        |
|            | b) Static excitation                                  |              |                        |                        |
| 6          | Design Energy (Annual)                                | Mus          | 1.66                   | 1.66                   |
| 7          | Auxiliary Consumption including Transformation losses | %            | 1.00%                  | 1.00%                  |
| 8          | Normative Plant Availability Factor (NAPAF)           | %            |                        |                        |
| 0.1        | Maintanana Chana fan WC                               | Rs.          |                        |                        |
| 9.1        | Maintenance Spares for WC                             | Lakh         |                        |                        |
| 9.2        | Receivable for WC                                     | R. Lakh      |                        |                        |
| 9.3        | Base Rate of return on equity                         | %            | 14                     | 14                     |
| 9.4        | Tax Rate  | %            | Not Applicable         | Not Applicable         |
| 9.5        | Prime lending Rate of SBI as on April' 2017           | %            | 13.80%                 | 12.90%                 |
| 10.1       | Туре  |              |                        |                        |
| 10.2       | IMIW )  | KW           | 200                    | 200                    |
| 10.3       | Peaking capacity during lean period (MW)              |              |                        |                        |
| 10.4       | Type of Turbine                                       |              |                        |                        |
|            | Rated Head (M)  |              |                        |                        |
| 10.6       | Rated Discharge (Cumes)                               |              |                        |                        |

### Name of the Hydro Generating Station : Dokumpani State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAI | PAF)  |             |                   |                |
|------|---|-------------|-------------------|----------------|
|      | & other normative para                                | meters con  | sidered for Tarif | f              |
| Sl.  | D   | TT. '4      | 2019-20           | 2020-21        |
| No.  | Description   | Unit        | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                                    | KW          | 30                | 30             |
| 2    | Free Power to home state                              | %           | NIL               | NIL            |
| 3    | Date of commercial operation                          |             |                   |                |
|      | Unit – 1  |             |                   |                |
| 4    | Type of Station                                       |             |                   |                |
|      | a) Surface/ underground                               |             |                   |                |
|      | b) Purely ROR/ Pondage/ Storage                       |             |                   |                |
|      | c) Peaking/ non-peaking                               |             |                   |                |
|      | d) No of hours of peaking                             |             |                   |                |
|      | e) Overload capacity (MW) &                           |             |                   |                |
|      | period  |             |                   |                |
| 5    | Type of excitation                                    |             |                   |                |
|      | a) Rotating exciters on generator                     |             |                   |                |
|      | b) Static excitation                                  |             |                   |                |
| 6    | Design Energy (Annual)                                | Mus         | 0.25              | 0.25           |
| 7    | Auxiliary Consumption including Transformation losses | %           | 1.00%             | 1.00%          |
| 8    | Normative Plant Availability Factor (NAPAF)           | %           |                   |                |
| 9.1  | Maintenance Spares for WC                             | Rs.<br>Lakh |                   |                |
| 9.2  | Receivable for WC                                     | R. Lakh     |                   |                |
| 9.3  | Base Rate of return on equity                         | %           | 14                | 14             |
| 9.4  | Tax Rate  | %           | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on April' 2017           | %           | 13.80%            | 12.90%         |
| 10.1 | Туре  |             |                   |                |
| 10.2 | Installed Capacity (Bo of Units x MW)                 | KW          | 30                | 30             |
| 10.3 | Peaking capacity during lean period (MW)              |             |                   |                |
|      | Type of Turbine                                       |             |                   |                |
| 10.5 | Rated Head (M)  |             |                   |                |
| 10.6 | Rated Discharge (Cumes)                               |             |                   |                |

### Name of the Hydro Generating Station : Domkhrong State/ Distt. Arunachal Pradesh/ West Kameng District

| Solitor   Description   Unit   2019-20   2020-21   | Detai | ls of Cod, Type of Hydro Stations,    | Normative  | Annual Plant, A   | vailability Factor |
|--|-------|---------------------------------------|------------|-------------------|--------------------|
| SI   | (NAF  | PAF)                                  |            |                   |                    |
| No.   Description   Unit   (Estimated)   (Projected)   |       | & other normative para                | meters con | sidered for Tarif | f                  |
| No.   Cestimated   Projected   | Sl.   | Description                           | I Init     | 2019-20           | 2020-21            |
| 2   Free Power to home state   %   NIL   NIL   | No.   | Description                           | Ollit      | (Estimated)       | (Projected)        |
| Date of commercial operation   Unit - 1   Unit - 2   | 1     | Installed Capacity                    | KW         | 2000              | 2000               |
| Unit - 1   | 2     | Free Power to home state              | %          | NIL               | NIL                |
| Unit - 2   | 3     | Date of commercial operation          |            |                   |                    |
| Type of Station  |       | Unit – 1                              |            |                   |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 16.64 16.64 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity Mot Applicable Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | Unit – 2                              |            |                   |                    |
| b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 16.64 16.64 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 4     | Type of Station                       |            |                   |                    |
| c) Peaking/ non-peaking   d) No of hours of peaking   e) Overload capacity (MW) & period   5   Type of excitation   a) Rotating exciters on generator   b) Static excitation   16.64   16.6  |       | a) Surface/ underground               |            |                   |                    |
| d) No of hours of peaking   e) Overload capacity (MW) & period   |       | b) Purely ROR/ Pondage/ Storage       |            |                   |                    |
| d) No of hours of peaking   e) Overload capacity (MW) & period   |       | c) Peaking/ non-peaking               |            |                   |                    |
| period   |       |                                       |            |                   |                    |
| 5 Type of excitation         a) Rotating exciters on generator           b) Static excitation         b) Static excitation           6 Design Energy (Annual)         Mus         16.64         16.64           7 Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8 Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1 Maintenance Spares for WC         Rs. Lakh         Lakh           9.2 Receivable for WC         R. Lakh         Not Applicable Not Applicable           9.3 Base Rate of return on equity         %         Not Applicable Not Applicable           9.5 Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1 Type         Installed Capacity (Bo of Units x MW)         KW         2000         2000           10.3 Peaking capacity during lean period (MW)         Reserved Turbine         Reserved Turbine         Reserved Turbine           10.5 Rated Head (M)         Reserved Turbine         Reserved Turbine         Reserved Turbine  |       | e) Overload capacity (MW) &           |            |                   |                    |
| a) Rotating exciters on generator   b) Static excitation   |       | period                                |            |                   |                    |
| b) Static excitation   Comparison   Compar | 5     | Type of excitation                    |            |                   |                    |
| Design Energy (Annual)   Mus   16.64   16.64     Auxiliary Consumption including Transformation losses   1.00%     Normative Plant Availability Factor (NAPAF)   %     9.1   Maintenance Spares for WC   Rs. Lakh     9.2   Receivable for WC   R. Lakh     9.3   Base Rate of return on equity   %   14   14     9.4   Tax Rate   %   Not Applicable   Not Applicable     9.5   Prime lending Rate of SBI as on April' 2017   %   13.80%   12.90%     10.1   Type   |       | a) Rotating exciters on generator     |            |                   |                    |
| 7       Auxiliary Consumption including Transformation losses       %       1.00%       1.00%         8       Normative Plant Availability Factor (NAPAF)       %  |       | b) Static excitation                  |            | 1                 |                    |
| Transformation losses  | 6     | Design Energy (Annual)                | Mus        | 16.64             | 16.64              |
| Transformation losses  | 7     | • •                                   | %          | 1.00%             | 1.00%              |
| Factor (NAPAF)   |       |                                       | , 0        | 110070            | 1,0070             |
| 9.1       Maintenance Spares for WC       Rs. Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type       2000       2000         10.2       Installed Capacity (Bo of Units x MW)       KW       2000       2000         10.3       Peaking capacity during lean period (MW)       Type of Turbine       Type of Turbine         10.5       Rated Head (M)       Type of Turbine       Type of Turbine   | 8     | · · · · · · · · · · · · · · · · · · · | 0/0        |                   |                    |
| 9.1       Maintenance Spares for WC       Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type         10.2       Installed Capacity (Bo of Units x MW)       KW       2000       2000         10.3       Peaking capacity during lean period (MW)       Type of Turbine       Installed Head (M)  |       | Factor (NAPAF)                        |            |                   |                    |
| 9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Frime lending Rate of SBI as on April' 2017         KW         2000         2000           10.2         Installed Capacity (Bo of Units x MW)         KW         2000         2000           10.3         Peaking capacity during lean period (MW)         Frime lending Rate of SBI as on April' 2017         KW         2000         2000           10.4         Type of Turbine         Frime lending Rate of SBI as on April' 2017         KW         2000         2000   | 9.1   | Maintenance Spares for WC             | Rs.        |                   |                    |
| 9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       KW       2000       2000         10.2       Installed Capacity (Bo of Units x MW)       KW       2000       2000         10.3       Peaking capacity during lean period (MW)       Feed to the period of  |       | _                                     |            |                   |                    |
| 9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Installed Capacity (Bo of Units x MW)         KW         2000         2000           10.3         Peaking capacity during lean period (MW)         Peaking Capacity (Bo of Units x MW)         W         2000         2000           10.4         Type of Turbine         Installed Capacity (Bo of Units x MW)   | 9.2   | Receivable for WC                     |            |                   |                    |
| 9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type  | 9.3   | Base Rate of return on equity         |            |                   |                    |
| 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4   |                                       | %          | Not Applicable    | Not Applicable     |
| April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.5   |                                       | 0/0        | 13 80%            | 12 90%             |
| 10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | ±                                     | /0         | 13.0070           | 12.70/0            |
| MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       |                                       |            |                   |                    |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2  | MW)                                   | KW         | 2000              | 2000               |
| 10.4 Type of Turbine 10.5 Rated Head (M)   | 10.3  |                                       |            |                   |                    |
| 10.5 Rated Head (M)  | 10.4  | Type of Turbine                       |            |                   |                    |
| 10.6 Pated Discharge (Cumes)   |       |                                       |            |                   |                    |
| 10.0 [Nated Discharge (Cullies)  | 10.6  | Rated Discharge (Cumes)               |            |                   |                    |

### Name of the Hydro Generating Station : Sinchung State/ Distt. Arunachal Pradesh/ West Kameng District

| Detai | ls of Cod, Type of Hydro Stations,             | Normative   | e Annual Plant, A | vailability Factor |
|-------|--|-------------|-------------------|--------------------|
| (NAI  |  |             |                   |                    |
|       | & other normative para                         | meters con  |                   | f                  |
| Sl.   | Description                                    | Unit        | 2019-20           | 2020-21            |
| No.   | -  |             | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                             | KW          | 50                | 50                 |
| 2     | Free Power to home state                       | %           | NIL               | NIL                |
| 3     | Date of commercial operation                   |             |                   |                    |
|       | Unit – 1                                       |             |                   |                    |
| 4     | Type of Station                                |             |                   |                    |
|       | a) Surface/ underground                        |             |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage                |             |                   |                    |
|       | c) Peaking/ non-peaking                        |             |                   |                    |
|       | d) No of hours of peaking                      |             |                   |                    |
|       | e) Overload capacity (MW) &                    |             |                   |                    |
|       | period   |             |                   |                    |
| 5     | Type of excitation                             |             |                   |                    |
|       | a) Rotating exciters on generator              |             |                   |                    |
|       | b) Static excitation                           |             |                   |                    |
| 6     | Design Energy (Annual)                         | Mus         | 0.42              | 0.42               |
| 7     | Auxiliary Consumption including                | 0/          | 1.00%             | 1.00%              |
| /     | Transformation losses                          | %           | 1.00%             | 1.00%              |
| 8     | Normative Plant Availability                   | %           |                   |                    |
| ٥     | Factor (NAPAF)                                 | 70          |                   |                    |
| 9.1   | Maintenance Spares for WC                      | Rs.<br>Lakh |                   |                    |
| 9.2   | Receivable for WC                              | R. Lakh     |                   |                    |
| 9.3   | Base Rate of return on equity                  | %           | 14                | 14                 |
| 9.4   | Tax Rate                                       | %           | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on<br>April' 2017 | %           | 13.80%            | 12.90%             |
| 10.1  | Туре   |             |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)          | KW          | 50                | 50                 |
| 10.3  | Peaking capacity during lean period (MW)       |             |                   |                    |
| 10.4  | Type of Turbine                                |             |                   |                    |
|       | Rated Head (M)                                 |             |                   |                    |
| 10.6  | Rated Discharge (Cumes)                        |             |                   |                    |
|       |  |             |                   |                    |

# Name of the Hydro Generating Station : Ankaling State/ Distt. Arunachal Pradesh/ West Kameng District

|      | ils of Cod, Type of Hydro Stations,         | Normative  | Annual Plant, A | vailability Factor |
|------|---|------------|-----------------|--------------------|
| (NAF |   |            |                 |                    |
|      | & other normative para                      | meters cor |                 |                    |
| Sl.  | Description                                 | Unit       | 2019-20         | 2020-21            |
| No.  | -   |            | (Estimated)     | (Projected)        |
|      | Installed Capacity                          | KW         | 30              | 30                 |
|      | Free Power to home state                    | %          | NIL             | NIL                |
| 3    | Date of commercial operation                |            |                 |                    |
|      | Unit – 1                                    |            |                 |                    |
| 4    | Type of Station                             |            |                 |                    |
|      | a) Surface/ underground                     |            |                 |                    |
|      | b) Purely ROR/ Pondage/ Storage             |            |                 |                    |
|      | c) Peaking/ non-peaking                     |            |                 |                    |
|      | d) No of hours of peaking                   |            |                 |                    |
|      | e) Overload capacity (MW) &                 |            |                 |                    |
|      | period                                      |            |                 |                    |
| 5    | Type of excitation                          |            |                 |                    |
|      | a) Rotating exciters on generator           |            |                 |                    |
|      | b) Static excitation                        |            | 1               |                    |
| 6    | Design Energy (Annual)                      | Mus        | 0.25            | 0.25               |
| 7    | Auxiliary Consumption including             | %          | 1.00%           | 1.00%              |
| /    | Transformation losses                       | 70         | 1.0070          | 1.0070             |
| 8    | Normative Plant Availability                | %          |                 |                    |
| 0    | Factor (NAPAF)                              | 70         |                 |                    |
| 9.1  | Maintenance Spares for WC                   | Rs.        |                 |                    |
| 9.1  | Maintenance Spares for WC                   | Lakh       |                 |                    |
|      | Receivable for WC                           | R. Lakh    |                 |                    |
| 9.3  | Base Rate of return on equity               | %          | 14              | 14                 |
|      | Tax Rate                                    | %          | Not Applicable  | Not Applicable     |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%          | 12.90%             |
| 10.1 | Туре  |            |                 |                    |
| 10.2 | Installed Capacity (Bo of Units x MW)       | KW         | 30              | 30                 |
| 10.3 | Peaking capacity during lean period (MW)    |            |                 |                    |
| 10.4 | Type of Turbine                             |            |                 |                    |
|      | Rated Head (M)                              |            |                 |                    |
|      | Rated Discharge (Cumes)                     |            |                 |                    |

# Name of the Hydro Generating Station: Dikshi

State/ Distt. Arunachal Pradesh/ West Kameng District

| Detai | ls of Cod, Type of Hydro Stations,          | Normative   | Annual Plant, A   | vailability Factor |
|-------|---|-------------|-------------------|--------------------|
| (NAF  | PAF)  |             |                   | -                  |
|       | & other normative para                      | meters con  | sidered for Tarif | f                  |
| Sl.   | Description                                 | Unit        | 2019-20           | 2020-21            |
| No.   | Description                                 | Ullit       | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                          | KW          | 30                | 30                 |
| 2     | Free Power to home state                    | %           | NIL               | NIL                |
| 3     | Date of commercial operation                |             |                   |                    |
|       | Unit – 1                                    |             |                   |                    |
| 4     | Type of Station                             |             |                   |                    |
|       | a) Surface/ underground                     |             |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage             |             |                   |                    |
|       | c) Peaking/ non-peaking                     |             |                   |                    |
|       | d) No of hours of peaking                   |             |                   |                    |
|       | e) Overload capacity (MW) &                 |             |                   |                    |
|       | period                                      |             |                   |                    |
| 5     | Type of excitation                          |             |                   |                    |
|       | a) Rotating exciters on generator           |             |                   |                    |
|       | b) Static excitation                        |             |                   |                    |
| 6     | Design Energy (Annual)                      | Mus         | 0.25              | 0.25               |
| 7     | Auxiliary Consumption including             | %           | 1.00%             | 1.00%              |
| /     | Transformation losses                       | 70          | 1.0070            | 1.0070             |
| 8     | Normative Plant Availability                | %           |                   |                    |
| 0     | Factor (NAPAF)                              | 70          |                   |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.<br>Lakh |                   |                    |
| 9.2   | Receivable for WC                           | R. Lakh     |                   |                    |
| 9.3   | Base Rate of return on equity               | %           | 14                | 14                 |
| 9.4   | Tax Rate                                    | %           | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%            | 12.90%             |
| 10.1  | Туре  |             |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)       | KW          | 30                | 30                 |
| 10.3  | Peaking capacity during lean period (MW)    |             |                   |                    |
| 10.4  | Type of Turbine                             |             |                   |                    |
|       | Rated Head (M)                              |             |                   |                    |
| 10.6  | Rated Discharge (Cumes)                     |             |                   |                    |

Name of the Hydro Generating Station : Khadiyabey State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAI | PAF)  |             |                   |                |
|------|---|-------------|-------------------|----------------|
|      | & other normative para                      | meters con  | sidered for Tarif | f              |
| Sl.  | Danamintian                                 | T T 14      | 2019-20           | 2020-21        |
| No.  | Description                                 | Unit        | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                          | KW          | 200               | 200            |
| 2    | Free Power to home state                    | %           | NIL               | NIL            |
| 3    | Date of commercial operation                |             |                   |                |
|      | Unit – 1                                    |             |                   |                |
|      | Unit – 2                                    |             |                   |                |
| 4    | Type of Station                             |             |                   |                |
|      | a) Surface/ underground                     |             |                   |                |
|      | b) Purely ROR/ Pondage/ Storage             |             |                   |                |
|      | c) Peaking/ non-peaking                     |             |                   |                |
|      | d) No of hours of peaking                   |             |                   |                |
|      | e) Overload capacity (MW) &                 |             |                   |                |
|      | period                                      |             |                   |                |
| 5    | Type of excitation                          |             |                   |                |
|      | a) Rotating exciters on generator           |             |                   |                |
|      | b) Static excitation                        |             |                   |                |
| 6    | Design Energy (Annual)                      | Mus         | 1.66              | 1.66           |
| 7    | Auxiliary Consumption including             | %           | 1.00%             | 1.00%          |
| ,    | Transformation losses                       | 70          | 1.0070            | 1.0070         |
| 8    | Normative Plant Availability                | %           |                   |                |
| 0    | Factor (NAPAF)                              | /0          |                   |                |
| 9.1  | Maintenance Spares for WC                   | Rs.<br>Lakh |                   |                |
| 9.2  | Receivable for WC                           | R. Lakh     |                   |                |
| 9.3  | Base Rate of return on equity               | %           | 14                | 14             |
| 9.4  | Tax Rate                                    | %           | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%            | 12.90%         |
| 10.1 | Туре  |             |                   |                |
| 10.2 | Installed Capacity (Bo of Units x MW)       | KW          | 200               | 200            |
| 10.3 | Peaking capacity during lean period (MW)    |             |                   |                |
|      | Type of Turbine                             |             |                   |                |
|      | Rated Head (M)                              |             |                   |                |
| 10.6 | Rated Discharge (Cumes)                     |             |                   |                |

# Name of the Hydro Generating Station: Jigaon

State/ Distt. Arunachal Pradesh/ West Kameng District

| Solition   Content   Con |      | ls of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A | vailability Factor |
|--|------|------------------------------------|------------|-----------------|--------------------|
| SI.   Description   Unit   2019-20 (Projected)   | (NAI | ,                                  |            | : 1 1 £ T:£     | c                  |
| No.  | G1   | & other normative para             | meters cor |                 |                    |
| No.   (Estimated) (Projected)  |      | Description                        | Unit       |                 |                    |
| 2   Free Power to home state   %   NIL   NIL   |      | •                                  |            |                 | ` * ·              |
| Date of commercial operation   | _    |                                    |            |                 |                    |
| Unit – 1 Unit – 2  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   |      |                                    | %          | NIL             | NIL                |
| Unit - 2   | 3    |                                    |            |                 |                    |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  Auxiliary Consumption including Transformation losses  Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   |      |                                    |            |                 |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      |                                    |            |                 |                    |
| b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 4    | Type of Station                    |            |                 |                    |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | a) Surface/ underground            |            |                 |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.4 Type of Turbine 10.5 Rated Head (M)  |      | b) Purely ROR/ Pondage/ Storage    |            |                 |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.4 Type of Turbine 10.5 Rated Head (M)  |      | c) Peaking/ non-peaking            |            |                 |                    |
| e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation  6 Design Energy (Annual) Mus 0.83 0.83  7 Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |      |                                    |            |                 |                    |
| 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Auxiliary Consumption including Transformation losses  Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 9% Not Applicable Not Applicable  Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | e) Overload capacity (MW) &        |            |                 |                    |
| a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | · _ · _ · _ ·                      |            |                 |                    |
| a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 5    | Type of excitation                 |            |                 |                    |
| b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |      |                                    |            |                 |                    |
| 7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |      |                                    |            | 1               |                    |
| 7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 6    | /                                  | Mus        | 0.83            | 0.83               |
| Transformation losses  Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  Rs. Lakh  9.2 Receivable for WC  9.3 Base Rate of return on equity 9/6 Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 7    |                                    | 0/         | 1.000/          | 1.000/             |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | /    |                                    | %0         | 1.00%           | 1.00%              |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |      | Normative Plant Availability       | 0./        |                 |                    |
| 9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 8    | I -                                | %          |                 |                    |
| 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 0.1  | M. A. S. S. W.C.                   | Rs.        |                 |                    |
| 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 9.1  | Maintenance Spares for WC          | Lakh       |                 |                    |
| 9.4 Tax Rate   | 9.2  | Receivable for WC                  | R. Lakh    |                 |                    |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.3  | Base Rate of return on equity      | %          | 14              | 14                 |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4  | Tax Rate                           | %          | Not Applicable  | Not Applicable     |
| April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0.5  | Prime lending Rate of SBI as on    | 0/         |                 |                    |
| 10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 9.5  |                                    | <b>%</b> 0 | 13.80%          | 12.90%             |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 10.1 | Туре                               |            |                 |                    |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2 | MW)                                | KW         | 100             | 100                |
| 10.4 Type of Turbine 10.5 Rated Head (M)   | 10.3 |                                    |            |                 |                    |
| 10.5 Rated Head (M)  | 10.4 | ± ` /                              |            |                 |                    |
|  |      |                                    |            |                 |                    |
|  |      |                                    |            |                 |                    |

Name of the Hydro Generating Station: Seppa

State/ Distt. Arunachal Pradesh/ East Kameng District

| Detai | ls of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A   | vailability Factor |
|-------|------------------------------------|------------|-------------------|--------------------|
| (NAF  | PAF)                               |            |                   |                    |
|       | & other normative para             | meters cor | sidered for Tarif | f                  |
| Sl.   | Description                        | T T :4     | 2019-20           | 2020-21            |
| No.   | Description                        | Unit       | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                 | KW         | 300               | 300                |
| 2     | Free Power to home state           | %          | NIL               | NIL                |
| 3     | Date of commercial operation       |            |                   |                    |
|       | Unit – 1                           |            |                   |                    |
|       | Unit – 2                           |            |                   |                    |
|       | Unit – 3                           |            |                   |                    |
| 4     | Type of Station                    |            |                   |                    |
|       | a) Surface/ underground            |            |                   |                    |
|       | ,                                  |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage    |            |                   |                    |
|       | c) Peaking/ non-peaking            |            |                   |                    |
|       | d) No of hours of peaking          |            |                   |                    |
|       | e) Overload capacity (MW) &        |            |                   |                    |
|       | period                             |            |                   |                    |
| 5     | Type of excitation                 |            |                   |                    |
|       | a) Rotating exciters on generator  |            |                   |                    |
|       | b) Static excitation               |            | 1                 |                    |
| 6     | Design Energy (Annual)             | Mus        | 2.50              | 2.50               |
|       | Auxiliary Consumption including    |            | 1.000/            | 1.000/             |
| 7     | Transformation losses              | %          | 1.00%             | 1.00%              |
|       | Normative Plant Availability       | 0.4        |                   |                    |
| 8     | Factor (NAPAF)                     | %          |                   |                    |
|       | ,                                  | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC          | Lakh       |                   |                    |
| 9.2   | Receivable for WC                  | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity      | %          | 14                | 14                 |
| 9.4   | Tax Rate                           | %          | Not Applicable    | Not Applicable     |
| 0.5   | Prime lending Rate of SBI as on    | 0.1        |                   |                    |
| 9.5   | April' 2017                        | %          | 13.80%            | 12.90%             |
| 10.1  | Туре                               |            |                   |                    |
|       | Installed Capacity (Bo of Units x  | 17777      | 200               | 200                |
| 10.2  | MW)                                | KW         | 300               | 300                |
| 10.2  | Peaking capacity during lean       |            |                   |                    |
| 10.3  | period (MW)                        |            |                   |                    |
| 10.4  | Type of Turbine                    |            |                   |                    |
|       | Rated Head (M)                     |            |                   |                    |
|       | Rated Discharge (Cumes)            |            |                   |                    |
| 10.0  |                                    | L          | 1                 |                    |

Name of the Hydro Generating Station : Pakke Kessang State/ Distt. Arunachal Pradesh/ East Kameng District

| Detai | ls of Cod, Type of Hydro Stations,             | Normative   | Annual Plant, A   | vailability Factor |
|-------|--|-------------|-------------------|--------------------|
| (NAI  |  |             |                   |                    |
|       | & other normative para                         | meters con  | sidered for Tarif | f                  |
| Sl.   | Dogarintian                                    | Unit        | 2019-20           | 2020-21            |
| No.   | Description                                    | Onit        | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                             | KW          | 30                | 30                 |
| 2     | Free Power to home state                       | %           | NIL               | NIL                |
| 3     | Date of commercial operation                   |             |                   |                    |
|       | Unit – 1                                       |             |                   |                    |
| 4     | Type of Station                                |             |                   |                    |
|       | a) Surface/ underground                        |             |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage                |             |                   |                    |
|       | c) Peaking/ non-peaking                        |             |                   |                    |
|       | d) No of hours of peaking                      |             |                   |                    |
|       | e) Overload capacity (MW) &                    |             |                   |                    |
|       | period   |             |                   |                    |
| 5     | Type of excitation                             |             |                   |                    |
|       | a) Rotating exciters on generator              |             |                   |                    |
|       | b) Static excitation                           |             |                   |                    |
| 6     | Design Energy (Annual)                         | Mus         | 0.25              | 0.25               |
| 7     | Auxiliary Consumption including                | %           | 1.00%             | 1.00%              |
|       | Transformation losses                          | /0          | 1.0070            | 1.0070             |
| 8     | Normative Plant Availability                   | %           |                   |                    |
| 0     | Factor (NAPAF)                                 |             |                   |                    |
| 9.1   | Maintenance Spares for WC                      | Rs.<br>Lakh |                   |                    |
| 9.2   | Receivable for WC                              | R. Lakh     |                   |                    |
| 9.3   | Base Rate of return on equity                  | %           | 14                | 14                 |
|       | Tax Rate                                       | %           | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on<br>April' 2017 | %           | 13.80%            | 12.90%             |
| 10.1  | Type   |             |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)          | KW          | 30                | 30                 |
| 10.3  | Peaking capacity during lean period (MW)       |             |                   |                    |
| 10.4  | Type of Turbine                                |             |                   |                    |
|       | Rated Head (M)                                 |             |                   |                    |
| 10.6  | Rated Discharge (Cumes)                        |             |                   |                    |

Name of the Hydro Generating Station : Pacha MHS State/ Distt. Arunachal Pradesh/ East Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description No. (Estimated) (Projected) 1 Installed Capacity KW 3000 3000 2 Free Power to home state **NIL** NIL % Date of commercial operation Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 24.97 24.97 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 3000 3000 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station: Pakoti

State/ Distr. Arunachal Pradesh/ East Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor

|      | ils of Cod, Type of Hydro Stations, | Normative  | e Annual Plant, A | vailability Factor |
|------|-------------------------------------|------------|-------------------|--------------------|
| (NAI |                                     |            |                   |                    |
|      | & other normative para              | meters cor |                   |                    |
| Sl.  | Description                         | Unit       | 2019-20           | 2020-21            |
| No.  | -                                   | Cint       | (Estimated)       | (Projected)        |
| 1    | Installed Capacity                  | KW         | 100               | 100                |
| 2    | Free Power to home state            | %          | NIL               | NIL                |
| 3    | Date of commercial operation        |            |                   |                    |
|      | Unit – 1                            |            |                   |                    |
|      | Unit – 2                            |            |                   |                    |
| 4    | Type of Station                     |            |                   |                    |
|      | a) Surface/ underground             |            |                   |                    |
|      | b) Purely ROR/ Pondage/ Storage     |            |                   |                    |
|      | c) Peaking/ non-peaking             |            |                   |                    |
|      | d) No of hours of peaking           |            |                   |                    |
|      | e) Overload capacity (MW) &         |            |                   |                    |
|      | period                              |            |                   |                    |
| 5    | Type of excitation                  |            |                   |                    |
|      | a) Rotating exciters on generator   |            |                   |                    |
|      | b) Static excitation                |            | 1                 |                    |
| 6    | Design Energy (Annual)              | Mus        | 0.83              | 0.83               |
| _    | Auxiliary Consumption including     |            |                   |                    |
| 7    | Transformation losses               | %          | 1.00%             | 1.00%              |
|      | Normative Plant Availability        | 0.4        |                   |                    |
| 8    | Factor (NAPAF)                      | %          |                   |                    |
|      | , , ,                               | Rs.        |                   |                    |
| 9.1  | Maintenance Spares for WC           | Lakh       |                   |                    |
| 9.2  | Receivable for WC                   | R. Lakh    |                   |                    |
| 9.3  | Base Rate of return on equity       | %          | 14                | 14                 |
| 9.4  | Tax Rate                            | %          | Not Applicable    | Not Applicable     |
|      | Prime lending Rate of SBI as on     |            |                   |                    |
| 9.5  | April' 2017                         | %          | 13.80%            | 12.90%             |
| 10.1 | Type                                |            |                   |                    |
|      | Installed Capacity (Bo of Units x   |            |                   |                    |
| 10.2 | MW)                                 | KW         | 100               | 100                |
|      | Peaking capacity during lean        |            |                   |                    |
| 10.3 | period (MW)                         |            |                   |                    |
|      | Type of Turbine                     |            |                   |                    |
|      | Rated Head (M)                      |            |                   |                    |
| 10.6 | Rated Discharge (Cumes)             |            |                   |                    |

Name of the Hydro Generating Station : Patta Nallah State/ Distt. Arunachal Pradesh/ East Kameng District

| Detai | lls of Cod, Type of Hydro Stations,         | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAI  | PAF)  |            |                   |                    |
|       | & other normative para                      | meters cor | sidered for Tarif | f                  |
| Sl.   | Dogarintian                                 | Unit       | 2019-20           | 2020-21            |
| No.   | Description                                 | Ollit      | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                          | KW         | 100               | 100                |
| 2     | Free Power to home state                    | %          | NIL               | NIL                |
| 3     | Date of commercial operation                |            |                   |                    |
|       | Unit – 1                                    |            |                   |                    |
|       | Unit – 2                                    |            |                   |                    |
| 4     | Type of Station                             |            |                   |                    |
|       | a) Surface/ underground                     |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage             |            |                   |                    |
|       | c) Peaking/ non-peaking                     |            |                   |                    |
|       | d) No of hours of peaking                   |            |                   |                    |
|       | e) Overload capacity (MW) &                 |            |                   |                    |
|       | period                                      |            |                   |                    |
| 5     | Type of excitation                          |            |                   |                    |
|       | a) Rotating exciters on generator           |            |                   |                    |
|       | b) Static excitation                        |            |                   |                    |
| 6     | Design Energy (Annual)                      | Mus        | 0.83              | 0.83               |
| 7     | Auxiliary Consumption including             | %          | 1.00%             | 1.00%              |
| /     | Transformation losses                       | 70         | 1.0070            | 1.0070             |
| 8     | Normative Plant Availability                | %          |                   |                    |
| 0     | Factor (NAPAF)                              | /0         |                   |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.        |                   |                    |
| 9.1   | -   | Lakh       |                   |                    |
| 9.2   | Receivable for WC                           | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity               | %          | 14                | 14                 |
| 9.4   | Tax Rate                                    | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%            | 12.90%             |
| 10.1  | Туре  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x           | VIII       | 100               | 100                |
| 10.2  | MW)   | KW         | 100               | 100                |
| 10.3  | Peaking capacity during lean                |            |                   |                    |
| 10.3  | period (MW)                                 |            |                   |                    |
| 10.4  | Type of Turbine                             |            |                   |                    |
|       | Rated Head (M)                              |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                     |            |                   |                    |
|       |   |            |                   |                    |

Name of the Hydro Generating Station : Watte Mame State/ Distt. Arunachal Pradesh/ East Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| 1 Installed Capacity KW 50 50 2 Free Power to home state % NIL NIL 3 Date of commercial operation  Unit – 1 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses  Normative Plant Availability Factor (NAPAF)  | (NAF | PAF)                              |             |                   |                |
|---|------|-----------------------------------|-------------|-------------------|----------------|
| No. Description Unit (Estimated) (Projected 1 Installed Capacity KW 50 50 50 2 Free Power to home state % NIL NIL 1 NIL 3 Date of commercial operation Unit – 1 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  |      | & other normative para            | meters con  | sidered for Tarif | f              |
| No.   CEstimated) (Projected   Installed Capacity   KW   50   50   50   20   Free Power to home state   %   NIL   NIL | Sl.  | Deganintian                       | I Imit      | 2019-20           | 2020-21        |
| 2 Free Power to home state % NIL NIL 3 Date of commercial operation  Unit – 1 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF)  | No.  | Description                       | Omi         | (Estimated)       | (Projected)    |
| 3 Date of commercial operation  Unit – 1  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  e) Overload capacity (MW) & period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual)  Mus  0.42  0.42  7 Auxiliary Consumption including Transformation losses  Normative Plant Availability Factor (NAPAF)   | 1    | Installed Capacity                | KW          | 50                | 50             |
| Unit – 1  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  | 2    | Free Power to home state          | %           | NIL               | NIL            |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  | 3    | Date of commercial operation      |             |                   |                |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  |      | Unit – 1                          |             |                   |                |
| b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)   | 4    | Type of Station                   |             |                   |                |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including 7 Transformation losses Normative Plant Availability 8% 8 Normative Plant Availability 9%  |      | a) Surface/ underground           |             |                   |                |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including 7 Transformation losses Normative Plant Availability 8% Normative Plant Availability 9%  |      | b) Purely ROR/ Pondage/ Storage   |             |                   |                |
| e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42  7 Auxiliary Consumption including Transformation losses  Normative Plant Availability Factor (NAPAF)  |      | c) Peaking/ non-peaking           |             |                   |                |
| period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual)  7 Auxiliary Consumption including Transformation losses  Normative Plant Availability Factor (NAPAF)  8 Normative Plant Availability %   |      | d) No of hours of peaking         |             |                   |                |
| 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including 7 Transformation losses 8 Normative Plant Availability 8 7 Factor (NAPAF)  |      | e) Overload capacity (MW) &       |             |                   |                |
| a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) %  1.00%  |      | period                            |             |                   |                |
| b) Static excitation  6 Design Energy (Annual) Mus 0.42 0.42  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  8 Factor (NAPAF)  | 5    | Type of excitation                |             |                   |                |
| 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses % 1.00% 1.00%  8 Normative Plant Availability Factor (NAPAF) %   |      | a) Rotating exciters on generator |             |                   |                |
| 7 Auxiliary Consumption including 7 Transformation losses 8 Normative Plant Availability Factor (NAPAF) 1.00% 1.00%   |      | b) Static excitation              |             |                   |                |
| 7 Transformation losses % 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) %   | 6    | Design Energy (Annual)            | Mus         | 0.42              | 0.42           |
| 8 Factor (NAPAF) %  | 7    |                                   | %           | 1.00%             | 1.00%          |
|   | 8    | _                                 | %           |                   |                |
| 9.1 Maintenance Spares for WC Rs. Lakh  | 9.1  | Maintenance Spares for WC         | Rs.<br>Lakh |                   |                |
| 9.2 Receivable for WC R. Lakh   | 9.2  | Receivable for WC                 | R. Lakh     |                   |                |
| 9.3 Base Rate of return on equity % 14 14   | 9.3  | Base Rate of return on equity     | %           | 14                | 14             |
| 9.4 Tax Rate % Not Applicable Not Applica   | 9.4  | Tax Rate                          | %           | Not Applicable    | Not Applicable |
| 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90%   | 9.5  | _                                 | %           | 13.80%            | 12.90%         |
| 10.1 Type   | 10.1 | Туре                              |             |                   |                |
| 10.2 Installed Capacity (Bo of Units x KW 50 50   |      | Installed Capacity (Bo of Units x | KW          | 50                | 50             |
| 10.3 Peaking capacity during lean period (MW)   | 10.3 | Peaking capacity during lean      |             |                   |                |
| 10.4 Type of Turbine  | 10.4 | Type of Turbine                   |             |                   |                |
| 10.5 Rated Head (M)   | 10.5 | Rated Head (M)                    |             |                   |                |
| 10.6 Rated Discharge (Cumes)  | 10.6 | Rated Discharge (Cumes)           |             |                   |                |

Name of the Hydro Generating Station : Kade Nallah State/ Distt. Arunachal Pradesh/ East Kameng District

| Detai | ils of Cod, Type of Hydro Stations,         | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAF  |   |            |                   |                    |
|       | & other normative para                      | meters cor | sidered for Tarif | f                  |
| Sl.   | Description                                 | Unit       | 2019-20           | 2020-21            |
| No.   | Description                                 | Om         | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                          | KW         | 50                | 50                 |
| 2     | Free Power to home state                    | %          | NIL               | NIL                |
| 3     | Date of commercial operation                |            |                   |                    |
|       | Unit – 1                                    |            |                   |                    |
| 4     | Type of Station                             |            |                   |                    |
|       | a) Surface/ underground                     |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage             |            |                   |                    |
|       | c) Peaking/ non-peaking                     |            |                   |                    |
|       | d) No of hours of peaking                   |            |                   |                    |
|       | e) Overload capacity (MW) &                 |            |                   |                    |
|       | period                                      |            |                   |                    |
| 5     | Type of excitation                          |            |                   |                    |
|       | a) Rotating exciters on generator           |            |                   |                    |
|       | b) Static excitation                        |            |                   |                    |
| 6     | Design Energy (Annual)                      | Mus        | 0.42              | 0.42               |
| 7     | Auxiliary Consumption including             | %          | 1.00%             | 1.000/-            |
| /     | Transformation losses                       |            | 1.00%             | 1.00%              |
| 8     | Normative Plant Availability                | %          |                   |                    |
| 0     | Factor (NAPAF)                              | %0         |                   |                    |
| 0.1   | Maintenance Spares for WC                   | Rs.        |                   |                    |
| 9.1   |   | Lakh       |                   |                    |
|       | Receivable for WC                           | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity               | %          | 14                | 14                 |
| 9.4   | Tax Rate                                    | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%            | 12.90%             |
| 10.1  | Туре  |            |                   |                    |
|       | Installed Capacity (Bo of Units x           | 17337      | 50                | 50                 |
| 10.2  | MW)   | KW         | 50                | 50                 |
| 10.2  | Peaking capacity during lean                |            |                   |                    |
| 10.3  | period (MW)                                 |            |                   |                    |
| 10.4  | Type of Turbine                             |            |                   |                    |
|       | Rated Head (M)                              |            |                   |                    |
| 10.5  |   |            |                   |                    |

Name of the Hydro Generating Station : Koye

State/ Distt. Arunachal Pradesh/ Kurung Kumey District

| NAPAF    Solution   Content   Cont |      | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                |                |  |  |
|--|------|---|------------|----------------|----------------|--|--|
| SI.   Description   Unit   2019-20 (Estimated)   (Projected)   | (NAF |   |            |                |                |  |  |
| No.   Description   Unit   (Estimated)   (Projected)   |      | & other normative para  | meters cor |                |                |  |  |
| No.   (Estimated) (Projected)  | Sl.  | Description   | I Init     |                |                |  |  |
| 2   Free Power to home state   %   NIL   NIL     3   Date of commercial operation   Unit - 1     4   Type of Station   a) Surface/ underground     b) Purely ROR/ Pondage/ Storage   c) Peaking/ non-peaking     d) No of hours of peaking   e) Overload capacity (MW) & period     5   Type of excitation   a) Rotating exciters on generator     b) Static excitation   6   Design Energy (Annual)   Mus   0.42   0.42     7   Auxiliary Consumption including   Transformation losses   Normative Plant Availability   %   Factor (NAPAF)   Factor (NAPAF)   Sase Rate of return on equity   %   1.4   1.4     9.2   Receivable for WC   R. Lakh       9.3   Base Rate of return on equity   %   1.4   1.4     9.4   Tax Rate   %   Not Applicable   Not Applicable     9.5   April' 2017   10.1   Type   1.2   MW)   1.3   Peaking capacity (Bo of Units x   MW)   1.4   Type of Turbine   1.5   Rated Head (M)   1.5   Ra | No.  | Description   |            | (Estimated)    | (Projected)    |  |  |
| 3 Date of commercial operation  Unit – 1  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus O.42 O.42 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 1    |   |            |                |                |  |  |
| Unit – 1  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability % Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 14 14 14 14 14 14 14 14 14 14 14   | 2    |   | %          | NIL            | NIL            |  |  |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 MW) 10.3 Peaking capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 3    |   |            |                |                |  |  |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 MW)  10.3 Peaking capacity (Bo of Units x MW)  10.4 Type of Turbine 10.5 Rated Head (M)  |      |   |            |                |                |  |  |
| b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 4    |   |            |                |                |  |  |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | a) Surface/ underground   |            |                |                |  |  |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |      | b) Purely ROR/ Pondage/ Storage   |            |                |                |  |  |
| e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation  6 Design Energy (Annual) Mus 0.42 0.42  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |      | c) Peaking/ non-peaking   |            |                |                |  |  |
| period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |      | d) No of hours of peaking   |            |                |                |  |  |
| 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | e) Overload capacity (MW) &   |            |                |                |  |  |
| a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | period  |            |                |                |  |  |
| b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 5    | Type of excitation  |            |                |                |  |  |
| 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   |      |   |            |                |                |  |  |
| 7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |      | b) Static excitation  |            |                |                |  |  |
| Transformation losses  Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 6    | Design Energy (Annual)  | Mus        | 0.42           | 0.42           |  |  |
| Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 7    | Auxiliary Consumption including   | 0/2        | 1.00%          | 1.00%          |  |  |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | ,    | Transformation losses   | 7/0        | 1.0070         | 1.0070         |  |  |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  P.2 Receivable for WC  R. Lakh  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | Q    | Normative Plant Availability  | 0/2        |                |                |  |  |
| 9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 0    | Factor (NAPAF)  | /0         |                |                |  |  |
| 9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0.1  | Maintananaa Sparag for WC   | Rs.        |                |                |  |  |
| 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | Maintenance Spares for WC   |            |                |                |  |  |
| 9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.2  | Receivable for WC   | R. Lakh    |                |                |  |  |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |      |   | %          |                |                |  |  |
| 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4  |   | %          | Not Applicable | Not Applicable |  |  |
| 10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.5  | _   | %          | 13.80%         | 12.90%         |  |  |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine 10.5 Rated Head (M)   | 10.1 | Туре  |            |                |                |  |  |
| MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 10.2 | Installed Capacity (Bo of Units x   | VW         | 50             | 50             |  |  |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2 | MW)   | IX VV      | 30             | 30             |  |  |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2 | Peaking capacity during lean  |            |                |                |  |  |
| 10.5 Rated Head (M)  | 10.3 | period (MW)   |            |                |                |  |  |
|  | 10.4 | Type of Turbine   |            |                |                |  |  |
| 10.6 Rated Discharge (Cumes)   | 10.5 | Rated Head (M)  |            |                |                |  |  |
|  | 10.6 | Rated Discharge (Cumes)   |            |                |                |  |  |

Name of the Hydro Generating Station : Paya MHS at Hiya State/ Distt. Arunachal Pradesh/ Kurung Kumey District

| Detai | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A | vailability Factor |
|-------|---|------------|-----------------|--------------------|
| (NAF  |   |            |                 |                    |
|       | & other normative para                                | meters cor |                 |                    |
| Sl.   | Description   | Unit       | 2019-20         | 2020-21            |
| No.   | •   | Omi        | (Estimated)     | (Projected)        |
| 1     | Installed Capacity                                    | KW         | 100             | 100                |
| 2     | Free Power to home state                              | %          | NIL             | NIL                |
| 3     | Date of commercial operation                          |            |                 |                    |
|       | Unit – 1  |            |                 |                    |
|       | Unit – 2  |            |                 |                    |
| 4     | Type of Station                                       |            |                 |                    |
|       | a) Surface/ underground                               |            |                 |                    |
|       | b) Purely ROR/ Pondage/ Storage                       |            |                 |                    |
|       | c) Peaking/ non-peaking                               |            |                 |                    |
|       | d) No of hours of peaking                             |            |                 |                    |
|       | e) Overload capacity (MW) &                           |            |                 |                    |
|       | period  |            |                 |                    |
| 5     | Type of excitation                                    |            |                 |                    |
|       | a) Rotating exciters on generator                     |            |                 |                    |
|       | b) Static excitation                                  |            |                 |                    |
| 6     | Design Energy (Annual)                                | Mus        | 0.83            | 0.83               |
| 7     | Auxiliary Consumption including Transformation losses | %          | 1.00%           | 1.00%              |
| 8     | Normative Plant Availability<br>Factor (NAPAF)        | %          |                 |                    |
| 0.1   | M   | Rs.        |                 |                    |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                 |                    |
| 9.2   | Receivable for WC                                     | R. Lakh    |                 |                    |
| 9.3   | Base Rate of return on equity                         | %          | 14              | 14                 |
| 9.4   | Tax Rate  | %          | Not Applicable  | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%          | 12.90%             |
| 10.1  | Type  |            |                 |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)                 | KW         | 100             | 100                |
| 10.3  | Peaking capacity during lean period (MW)              |            |                 |                    |
|       | Type of Turbine                                       |            |                 |                    |
|       | Rated Head (M)  |            |                 |                    |
| 10.6  | Rated Discharge (Cumes)                               |            |                 |                    |

Name of the Hydro Generating Station : Kidding MHS State/ Distr. Arunachal Pradesh/ Kurung Kumey District

| Detai | ils of Cod, Type of Hydro Stations,         | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAI  | · · · · · · · · · · · · · · · · · · ·       |            | ŕ                 | Ĭ                  |
|       | & other normative para                      | meters con | sidered for Tarif | f                  |
| Sl.   | Description                                 | T T 14     | 2019-20           | 2020-21            |
| No.   | Description                                 | Unit       | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                          | KW         | 500               | 500                |
| 2     | Free Power to home state                    | %          | NIL               | NIL                |
| 3     | Date of commercial operation                |            |                   |                    |
|       | Unit – 1                                    |            |                   |                    |
|       | Unit – 2                                    |            |                   |                    |
| 4     | Type of Station                             |            |                   |                    |
|       | a) Surface/ underground                     |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage             |            |                   |                    |
|       | c) Peaking/ non-peaking                     |            |                   |                    |
|       | d) No of hours of peaking                   |            |                   |                    |
|       | e) Overload capacity (MW) &                 |            |                   |                    |
|       | period                                      |            |                   |                    |
| 5     | Type of excitation                          |            |                   |                    |
|       | a) Rotating exciters on generator           |            |                   |                    |
|       | b) Static excitation                        |            | 1                 |                    |
| 6     | Design Energy (Annual)                      | Mus        | 4.16              | 4.16               |
| 7     | Auxiliary Consumption including             | %          | 1.00%             | 1.00%              |
|       | Transformation losses                       | 70         | 1.0076            | 1.0070             |
| 8     | Normative Plant Availability                | %          |                   |                    |
| 0     | Factor (NAPAF)                              | 70         |                   |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC                   | Lakh       |                   |                    |
| 9.2   | Receivable for WC                           | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity               | %          | 14                | 14                 |
| 9.4   | Tax Rate                                    | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%            | 12.90%             |
| 10.1  | Туре  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x           | vw.        | 500               | 500                |
| 10.2  | MW)   | KW         | 500               | 500                |
| 10.2  | Peaking capacity during lean                |            |                   |                    |
| 10.3  | period (MW)                                 |            |                   |                    |
|       |   |            |                   |                    |
| 10.4  | Type of Turbine                             |            |                   |                    |
|       |   |            |                   |                    |

Name of the Hydro Generating Station : Dumi Dutte State/ Distt. Arunachal Pradesh/ Kurung Kumey District

| (NAPAF)           Sl. No.         Description         Unit         2019-20 (Estimated)         2020 (Projection)           1 Installed Capacity         KW         30         30           2 Free Power to home state         %         NIL         NIL           3 Date of commercial operation         Unit - 1           4 Type of Station         Type of Station   | cted)        |
|---|--------------|
| Sl. No.         Description         Unit         2019-20 (Estimated)         2020 (Projection)           1 Installed Capacity         KW         30         30           2 Free Power to home state         %         NIL         NIL           3 Date of commercial operation         Unit - 1           4 Type of Station         Type of Station   | cted)        |
| No.         Description         Unit         (Estimated)         (Projection)           1         Installed Capacity         KW         30         30           2         Free Power to home state         %         NIL         NIL           3         Date of commercial operation         Unit - 1           4         Type of Station         Type of Station  | cted)        |
| No.   1   | 0            |
| 2         Free Power to home state         %         NIL         NI           3         Date of commercial operation         Unit – 1           4         Type of Station         Image: Commercial operation ope |              |
| 3         Date of commercial operation           Unit - 1           4         Type of Station   | L            |
| Unit – 1  4 Type of Station   |              |
| 4 Type of Station   |              |
|   |              |
|   |              |
| a) Surface/ underground   |              |
| b) Purely ROR/ Pondage/ Storage   |              |
| c) Peaking/ non-peaking   |              |
| d) No of hours of peaking   |              |
| e) Overload capacity (MW) &   |              |
| period  |              |
| 5 Type of excitation  |              |
| a) Rotating exciters on generator   |              |
| b) Static excitation  |              |
| 6 Design Energy (Annual) Mus 0.25 0.2   | 25           |
| 7 Auxiliary Consumption including % 1.00% 1.00  | 1.00%        |
| Transformation losses   | <i>J</i> / 0 |
| Normative Plant Availability %  |              |
| Factor (NAPAF)  |              |
| 9.1 Maintenance Spares for WC Rs. Lakh  |              |
| 9.2 Receivable for WC R. Lakh   |              |
| 9.3 Base Rate of return on equity % 14  | -            |
| 9.4 Tax Rate % Not Applicable Not App   | olicable     |
| 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.9   | 0%           |
| 10.1 Type   |              |
| Installed Canacity (Ro of Units v   | <u> </u>     |
| 10.2 MW) KW 30  | J            |
| Peaking capacity during lean  |              |
| 10.3 period (MW)  |              |
| 10.4 Type of Turbine  |              |
| 10.5 Rated Head (M)   |              |
| 10.6 Rated Discharge (Cumes)  |              |

Name of the Hydro Generating Station : Payu MHS at Koloriang State/ Distt. Arunachal Pradesh/ Kurung Kumey District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit No. (Estimated) (Projected) 1 Installed Capacity KW 1000 1000 NIL Free Power to home state % NIL Date of commercial operation Unit – 1 Unit - 2Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 8.32 Mus 8.32 Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 14 % 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 1000 1000 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine

10.5 Rated Head (M)

10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Patte MHS at Tali State/ Distt. Arunachal Pradesh/ Kurung Kumey District

| Detai | ls of Cod, Type of Hydro Stations,          | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAF  | ,   |            |                   |                    |
|       | & other normative para                      | meters cor | sidered for Tarif | f                  |
| Sl.   | Description                                 | Unit       | 2019-20           | 2020-21            |
| No.   | -   |            | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                          | KW         | 30                | 30                 |
| 2     | Free Power to home state                    | %          | NIL               | NIL                |
| 3     | Date of commercial operation                |            |                   |                    |
|       | Unit – 1                                    |            |                   |                    |
| 4     | Type of Station                             |            |                   |                    |
|       | a) Surface/ underground                     |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage             |            |                   |                    |
|       | c) Peaking/ non-peaking                     |            |                   |                    |
|       | d) No of hours of peaking                   |            |                   |                    |
|       | e) Overload capacity (MW) &                 |            |                   |                    |
|       | period                                      |            |                   |                    |
| 5     | Type of excitation                          |            |                   |                    |
|       | a) Rotating exciters on generator           |            |                   |                    |
|       | b) Static excitation                        |            |                   |                    |
| 6     | Design Energy (Annual)                      | Mus        | 0.25              | 0.25               |
| 7     | Auxiliary Consumption including             | %          | 1.00%             | 1.00%              |
| ,     | Transformation losses                       |            | 1.0070            | 1.0070             |
| 8     | Normative Plant Availability                | %          |                   |                    |
| 0     | Factor (NAPAF)                              | 70         |                   |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.        |                   |                    |
|       | 1   | Lakh       |                   |                    |
|       | Receivable for WC                           | R. Lakh    |                   |                    |
|       | Base Rate of return on equity               | %          | 14                | 14                 |
|       | Tax Rate                                    | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%            | 12.90%             |
|       | Туре  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x           | KW         | 30                | 30                 |
| 10.2  | MW)   | 17.44      | 50                | 50                 |
| 10.3  | Peaking capacity during lean                |            |                   |                    |
| 10.3  | period (MW)                                 |            |                   |                    |
|       | Type of Turbine                             |            |                   |                    |
| -     | Rated Head (M)                              |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                     |            |                   |                    |

Name of the Hydro Generating Station : Chambang State/ Distt. Arunachal Pradesh/ Kurung Kumey District

| Detai | ls of Cod, Type of Hydro Stations,          | Normative   | Annual Plant, A | vailability Factor |
|-------|---|-------------|-----------------|--------------------|
| (NAF  |   |             |                 |                    |
|       | & other normative para                      | meters con  |                 |                    |
| Sl.   | Description                                 | Unit        | 2019-20         | 2020-21            |
| No.   | Description                                 | Ullit       | (Estimated)     | (Projected)        |
| 1     | Installed Capacity                          | KW          | 30              | 30                 |
| 2     | Free Power to home state                    | %           | NIL             | NIL                |
| 3     | Date of commercial operation                |             |                 |                    |
|       | Unit – 1                                    |             |                 |                    |
| 4     | Type of Station                             |             |                 |                    |
|       | a) Surface/ underground                     |             |                 |                    |
|       | b) Purely ROR/ Pondage/ Storage             |             |                 |                    |
|       | c) Peaking/ non-peaking                     |             |                 |                    |
|       | d) No of hours of peaking                   |             |                 |                    |
|       | e) Overload capacity (MW) &                 |             |                 |                    |
|       | period                                      |             |                 |                    |
| 5     | Type of excitation                          |             |                 |                    |
|       | a) Rotating exciters on generator           |             |                 |                    |
|       | b) Static excitation                        |             | 1               |                    |
| 6     | Design Energy (Annual)                      | Mus         | 0.25            | 0.25               |
| 7     | Auxiliary Consumption including             | %           | 1.00%           | 1.00%              |
| /     | Transformation losses                       |             | 1.00%           | 1.00%              |
| 8     | Normative Plant Availability                | %           |                 |                    |
| 0     | Factor (NAPAF)                              | 70          |                 |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.<br>Lakh |                 |                    |
| 9.2   | Receivable for WC                           | R. Lakh     |                 |                    |
| 9.3   | Base Rate of return on equity               | %           | 14              | 14                 |
| 9.4   | Tax Rate                                    | %           | Not Applicable  | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%          | 12.90%             |
| 10.1  | Туре  |             |                 |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)       | KW          | 30              | 30                 |
| 10.3  | Peaking capacity during lean period (MW)    |             |                 |                    |
| 10.4  | Type of Turbine                             |             |                 |                    |
|       | Rated Head (M)                              |             |                 |                    |
| 10.6  | Rated Discharge (Cumes)                     |             |                 |                    |

Name of the Hydro Generating Station : Mai PH-I State/ Distt. Arunachal Pradesh/ Lower Subansiri District

|  | ls of Cod, Type of Hydro Stations,          | Normative  | Annual Plant, A | vailability Factor |  |
|--|---|------------|-----------------|--------------------|--|
| (NAPAF) & other normative parameters considered for Tariff |   |            |                 |                    |  |
| 01   | & other normative para                      | meters con |                 |                    |  |
| Sl.  | Description                                 | Unit       | 2019-20         | 2020-21            |  |
| No.  | _   | IZW.       | (Estimated)     | (Projected)        |  |
| 1  | Installed Capacity                          | KW         | 2000            | 2000               |  |
| 2  | Free Power to home state                    | %          | NIL             | NIL                |  |
| 3  | Date of commercial operation                |            |                 |                    |  |
|  | Unit – 1                                    |            |                 |                    |  |
|  | Unit – 2                                    |            |                 |                    |  |
|  | Unit – 3                                    |            |                 |                    |  |
| 4  | Unit – 4                                    |            |                 |                    |  |
| 4  | Type of Station                             |            |                 |                    |  |
|  | a) Surface/ underground                     |            |                 |                    |  |
|  | b) Purely ROR/ Pondage/ Storage             |            |                 |                    |  |
|  | c) Peaking/ non-peaking                     |            |                 |                    |  |
|  | d) No of hours of peaking                   |            |                 |                    |  |
|  | e) Overload capacity (MW) &                 |            |                 |                    |  |
|  | period                                      |            |                 |                    |  |
| 5  | Type of excitation                          |            |                 |                    |  |
|  | a) Rotating exciters on generator           |            |                 |                    |  |
|  | b) Static excitation                        |            |                 |                    |  |
| 6  | Design Energy (Annual)                      | Mus        | 16.64           | 16.64              |  |
|  | Auxiliary Consumption including             |            |                 |                    |  |
| 7  | Transformation losses                       | %          | 1.00%           | 1.00%              |  |
| 8  | Normative Plant Availability                | %          |                 |                    |  |
| O  | Factor (NAPAF)                              | 70         |                 |                    |  |
| 9.1  | Maintenance Spares for WC                   | Rs.        |                 |                    |  |
| 7.1  | -   | Lakh       |                 |                    |  |
| 9.2  | Receivable for WC                           | R. Lakh    |                 |                    |  |
| 9.3  | Base Rate of return on equity               | %          | 14              | 14                 |  |
| 9.4  | Tax Rate                                    | %          | Not Applicable  | Not Applicable     |  |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%          | 12.90%             |  |
| 10.1   | Туре  |            |                 |                    |  |
|  | Installed Capacity (Bo of Units x           |            |                 |                    |  |
| 10.2   | MW)   | KW         | 2000            | 2000               |  |
| 10.3   | Peaking capacity during lean period (MW)    |            |                 |                    |  |
| 10.4   | Type of Turbine                             |            |                 |                    |  |
|  | Rated Head (M)                              |            |                 |                    |  |
|  | Rated Discharge (Cumes)                     |            |                 |                    |  |
| 10.0   | raica Discharge (Cullies)                   |            |                 |                    |  |

Name of the Hydro Generating Station : Mai PH-II State/ Distt. Arunachal Pradesh/ Lower Subansiri District

| Detai | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A | vailability Factor |
|-------|---|------------|-----------------|--------------------|
| (NAF  | ,   |            |                 |                    |
|       | & other normative para                                | meters con |                 |                    |
| Sl.   | Description   | Unit       | 2019-20         | 2020-21            |
| No.   | •   |            | (Estimated)     | (Projected)        |
| 1     | Installed Capacity                                    | KW         | 1000            | 1000               |
| 2     | Free Power to home state                              | %          | NIL             | NIL                |
| 3     | Date of commercial operation                          |            |                 |                    |
|       | Unit – 1  |            |                 |                    |
|       | Unit – 2  |            |                 |                    |
| 4     | Type of Station                                       |            |                 |                    |
|       | a) Surface/ underground                               |            |                 |                    |
|       | b) Purely ROR/ Pondage/ Storage                       |            |                 |                    |
|       | c) Peaking/ non-peaking                               |            |                 |                    |
|       | d) No of hours of peaking                             |            |                 |                    |
|       | e) Overload capacity (MW) &                           |            |                 |                    |
|       | period  |            |                 |                    |
| 5     | Type of excitation                                    |            |                 |                    |
|       | a) Rotating exciters on generator                     |            |                 |                    |
|       | b) Static excitation                                  |            |                 |                    |
| 6     | Design Energy (Annual)                                | Mus        | 8.32            | 8.32               |
| 7     | Auxiliary Consumption including Transformation losses | %          | 1.00%           | 1.00%              |
| 8     | Normative Plant Availability<br>Factor (NAPAF)        | %          |                 |                    |
| 0.1   | ,   | Rs.        |                 |                    |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                 |                    |
| 9.2   | Receivable for WC                                     | R. Lakh    |                 |                    |
| 9.3   | Base Rate of return on equity                         | %          | 14              | 14                 |
| 9.4   | Tax Rate  | %          | Not Applicable  | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%          | 12.90%             |
| 10.1  | Type  |            |                 |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)                 | KW         | 1000            | 1000               |
| 10.3  | Peaking capacity during lean period (MW)              |            |                 |                    |
|       | Type of Turbine                                       |            |                 |                    |
| 10.5  | Rated Head (M)  |            |                 |                    |
| 10.6  | Rated Discharge (Cumes)                               |            |                 |                    |

Name of the Hydro Generating Station : Tago

State/ Distt. Arunachal Pradesh/ Lower Subansiri District

Details of Cod. Type of Hydro Stations, Normative Appua

| Detai | ls of Cod, Type of Hydro Stations, | Normative  | e Annual Plant, A | vailability Factor |
|-------|------------------------------------|------------|-------------------|--------------------|
| (NAF  | PAF)                               |            |                   |                    |
|       | & other normative para             | meters cor | sidered for Tarif | f                  |
| Sl.   | D 11                               | TT '4      | 2019-20           | 2020-21            |
| No.   | Description                        | Unit       | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                 | KW         | 4500              | 4500               |
| 2     | Free Power to home state           | %          | NIL               | NIL                |
| 3     | Date of commercial operation       |            |                   |                    |
|       | Unit – 1                           |            |                   |                    |
|       | Unit – 2                           |            |                   |                    |
|       | Unit – 3                           |            |                   |                    |
| 4     | Type of Station                    |            |                   |                    |
|       | a) Surface/ underground            |            |                   |                    |
|       | ,                                  |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage    |            |                   |                    |
|       | c) Peaking/ non-peaking            |            |                   |                    |
|       | d) No of hours of peaking          |            |                   |                    |
|       | e) Overload capacity (MW) &        |            |                   |                    |
|       | period                             |            |                   |                    |
| 5     | Type of excitation                 |            |                   |                    |
|       | a) Rotating exciters on generator  |            |                   |                    |
|       | b) Static excitation               |            |                   |                    |
| 6     | Design Energy (Annual)             | Mus        | 37.45             | 37.45              |
| 7     | Auxiliary Consumption including    | 0./        | 1.000/            | 1.000/             |
| 7     | Transformation losses              | %          | 1.00%             | 1.00%              |
| 0     | Normative Plant Availability       | 0/         |                   |                    |
| 8     | Factor (NAPAF)                     | %          |                   |                    |
| 0.1   | ·                                  | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC          | Lakh       |                   |                    |
| 9.2   | Receivable for WC                  | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity      | %          | 14                | 14                 |
| 9.4   | Tax Rate                           | %          | Not Applicable    | Not Applicable     |
| 0.5   | Prime lending Rate of SBI as on    | 0./        |                   |                    |
| 9.5   | April' 2017                        | %          | 13.80%            | 12.90%             |
| 10.1  | Type                               |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x  | 1/337      | 4500              | 4500               |
| 10.2  | MW)                                | KW         | 4500              | 4500               |
| 10.0  | Peaking capacity during lean       |            |                   |                    |
| 10.3  | period (MW)                        |            |                   |                    |
| 10.4  | Type of Turbine                    |            |                   |                    |
|       | Rated Head (M)                     |            |                   |                    |
|       | Rated Discharge (Cumes)            |            |                   |                    |
| 10.0  | reares Disensings (Curies)         |            | <u> </u>          |                    |

Name of the Hydro Generating Station : Maro

State/ Distt. Arunachal Pradesh/ Upper Subansiri District

|      | ils of Cod, Type of Hydro Stations,         | Normative  | Annual Plant, A | vailability Factor |
|------|---|------------|-----------------|--------------------|
| (NAF |   |            | · 1 1 C T · C   | c                  |
|      | & other normative para                      | meters con |                 |                    |
| Sl.  | Description                                 | Unit       | 2019-20         | 2020-21            |
| No.  | -   |            | (Estimated)     | (Projected)        |
| 1    | Installed Capacity                          | KW         | 30              | 30                 |
| 2    | Free Power to home state                    | %          | NIL             | NIL                |
| 3    | Date of commercial operation                |            |                 |                    |
|      | Unit – 1                                    |            |                 |                    |
| 4    | Type of Station                             |            |                 |                    |
|      | a) Surface/ underground                     |            |                 |                    |
|      | b) Purely ROR/ Pondage/ Storage             |            |                 |                    |
|      | c) Peaking/ non-peaking                     |            |                 |                    |
|      | d) No of hours of peaking                   |            |                 |                    |
|      | e) Overload capacity (MW) &                 |            |                 |                    |
|      | period                                      |            |                 |                    |
| 5    | Type of excitation                          |            |                 |                    |
|      | a) Rotating exciters on generator           |            |                 |                    |
|      | b) Static excitation                        |            |                 |                    |
| 6    | Design Energy (Annual)                      | Mus        | 0.25            | 0.25               |
| 7    | Auxiliary Consumption including             | %          | 1.000/          | 1.000/             |
| /    | Transformation losses                       | %0         | 1.00%           | 1.00%              |
| 0    | Normative Plant Availability                | 0/         |                 |                    |
| 8    | Factor (NAPAF)                              | %          |                 |                    |
| 9.1  | Maintenance Spares for WC                   | Rs.        |                 |                    |
|      | 1   | Lakh       |                 |                    |
|      | Receivable for WC                           | R. Lakh    |                 |                    |
|      | Base Rate of return on equity               | %          | 14              | 14                 |
| 9.4  | Tax Rate                                    | %          | Not Applicable  | Not Applicable     |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%          | 12.90%             |
| 10.1 | Туре  |            |                 |                    |
| 10.2 | Installed Capacity (Bo of Units x           | KW         | 30              | 30                 |
| 10.2 | MW)   | IX W       | 30              | 30                 |
| 10.2 | Peaking capacity during lean                |            |                 |                    |
| 10.3 | period (MW)                                 |            |                 |                    |
| 10.4 | Type of Turbine                             |            |                 |                    |
| 10.5 | Rated Head (M)                              |            |                 |                    |
|      |   |            |                 |                    |

Name of the Hydro Generating Station : Sippi

State/ Distt. Arunachal Pradesh/ Upper Subansiri District

| Detai | ls of Cod, Type of Hydro Stations,             | Normative  | Annual Plant, A | vailability Factor |
|-------|--|------------|-----------------|--------------------|
| (NAF  | 7  |            |                 |                    |
|       | & other normative para                         | meters con |                 |                    |
| Sl.   | Description                                    | Unit       | 2019-20         | 2020-21            |
| No.   | _  |            | (Estimated)     | (Projected)        |
| 1     | Installed Capacity                             | KW         | 4000            | 4000               |
| 2     | Free Power to home state                       | %          | NIL             | NIL                |
| 3     | Date of commercial operation                   |            |                 |                    |
|       | Unit – 1                                       |            |                 |                    |
|       | Unit – 2                                       |            |                 |                    |
| 4     | Type of Station                                |            |                 |                    |
|       | a) Surface/ underground                        |            |                 |                    |
|       | b) Purely ROR/ Pondage/ Storage                |            |                 |                    |
|       | c) Peaking/ non-peaking                        |            |                 |                    |
|       | d) No of hours of peaking                      |            |                 |                    |
|       | e) Overload capacity (MW) &                    |            |                 |                    |
|       | period   |            |                 |                    |
| 5     | Type of excitation                             |            |                 |                    |
|       | a) Rotating exciters on generator              |            |                 |                    |
|       | b) Static excitation                           |            |                 |                    |
| 6     | Design Energy (Annual)                         | Mus        | 33.29           | 33.29              |
| 7     | Auxiliary Consumption including                | %          | 1.00%           | 1.00%              |
| ,     | Transformation losses                          | 70         | 1.0070          | 1.0070             |
| 8     | Normative Plant Availability                   | %          |                 |                    |
| 0     | Factor (NAPAF)                                 | 70         |                 |                    |
| 9.1   | Maintenance Spares for WC                      | Rs.        |                 |                    |
|       | _  | Lakh       |                 |                    |
| 9.2   | Receivable for WC                              | R. Lakh    |                 |                    |
|       | Base Rate of return on equity                  | %          | 14              | 14                 |
| 9.4   | Tax Rate                                       | %          | Not Applicable  | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on<br>April' 2017 | %          | 13.80%          | 12.90%             |
| 10.1  | Туре   |            |                 |                    |
| 10.2  | Installed Capacity (Bo of Units x              | KW         | 4000            | 4000               |
| 10.2  | MW)  | IX VV      | 4000            | 4000               |
| 10.3  | Peaking capacity during lean                   |            |                 |                    |
|       | period (MW)                                    |            |                 |                    |
|       | Type of Turbine                                |            |                 |                    |
|       | Rated Head (M)                                 |            |                 |                    |
| 10 6  | Rated Discharge (Cumes)                        |            |                 |                    |

### Name of the Hydro Generating Station : Pinto Karo MHS State/ Distt. Arunachal Pradesh/ Upper Subansiri District

|            | ls of Cod, Type of Hydro Stations,          | Normative   | Annual Plant, A | vailability Factor |
|------------|---|-------------|-----------------|--------------------|
| (NAP       | ,   |             |                 |                    |
|            | & other normative para                      | meters con  |                 |                    |
| Sl.        | Description                                 | Unit        | 2019-20         | 2020-21            |
| No.        | •   |             | (Estimated)     | (Projected)        |
|            | Installed Capacity                          | KW          | 25              | 25                 |
|            | Free Power to home state                    | %           | NIL             | NIL                |
| 3          | Date of commercial operation                |             |                 |                    |
| L          | Unit – 1                                    |             |                 |                    |
|            | Type of Station                             |             |                 |                    |
|            | a) Surface/ underground                     |             |                 |                    |
|            | b) Purely ROR/ Pondage/ Storage             |             |                 |                    |
|            | c) Peaking/ non-peaking                     |             |                 |                    |
|            | d) No of hours of peaking                   |             |                 |                    |
|            | e) Overload capacity (MW) &                 |             |                 |                    |
|            | period                                      |             |                 |                    |
| 5          | Type of excitation                          |             |                 |                    |
|            | a) Rotating exciters on generator           |             |                 |                    |
|            | b) Static excitation                        |             |                 |                    |
| 6          | Design Energy (Annual)                      | Mus         | 0.21            | 0.21               |
|            | Auxiliary Consumption including             | %           | 1.00%           | 1.00%              |
| ĺ          | Transformation losses                       | /0          | 1.0070          | 1.0070             |
| 8          | Normative Plant Availability                | %           |                 |                    |
| 0          | Factor (NAPAF)                              | 70          |                 |                    |
| 9.1        | Maintenance Spares for WC                   | Rs.<br>Lakh |                 |                    |
| 9.2        | Receivable for WC                           | R. Lakh     |                 |                    |
| 9.3        | Base Rate of return on equity               | %           | 14              | 14                 |
|            | Tax Rate                                    | %           | Not Applicable  | Not Applicable     |
|            | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%          | 12.90%             |
| 10.1       | Type  |             |                 |                    |
|            | Installed Capacity (Bo of Units x           | LW.         | 25              | 25                 |
|            | MW)   | KW          | 25              | 25                 |
| 10.2       | Peaking capacity during lean                |             |                 |                    |
| 1 1 () 3 1 | period (MW)                                 |             |                 |                    |
|            | Type of Turbine                             |             |                 |                    |
|            | Rated Head (M)                              |             |                 |                    |
|            |   |             |                 |                    |

Name of the Hydro Generating Station : Sikin Koro State/ Distt. Arunachal Pradesh/ Upper Subansiri District

|      | la of Cod Type of Hydro Stations            |              |                   | vailability Eastan |
|------|---|--------------|-------------------|--------------------|
|      | lls of Cod, Type of Hydro Stations,         | Normanve     | e Annuai Piani, A | vanability Factor  |
| (NAI |   | ma atawa a a | aidanad fan Tanif | c                  |
| CI   | & other normative para                      | meters cor   |                   |                    |
| Sl.  | Description                                 | Unit         | 2019-20           | 2020-21            |
| No.  | •   |              | (Estimated)       | (Projected)        |
| 1    | Installed Capacity                          | KW           | 200               | 200                |
| 2    | Free Power to home state                    | %            | NIL               | NIL                |
| 3    | Date of commercial operation                |              |                   |                    |
|      | Unit – 1                                    |              |                   |                    |
|      | Unit – 2                                    |              |                   |                    |
| 4    | Type of Station                             |              |                   |                    |
|      | a) Surface/ underground                     |              |                   |                    |
|      | b) Purely ROR/ Pondage/ Storage             |              |                   |                    |
|      | c) Peaking/ non-peaking                     |              |                   |                    |
|      | d) No of hours of peaking                   |              |                   |                    |
|      | e) Overload capacity (MW) &                 |              |                   |                    |
|      | period                                      |              |                   |                    |
| 5    | Type of excitation                          |              |                   |                    |
|      | a) Rotating exciters on generator           |              |                   |                    |
|      | b) Static excitation                        |              | 1                 |                    |
| 6    | Design Energy (Annual)                      | Mus          | 1.66              | 1.66               |
|      | Auxiliary Consumption including             | IVIUS        | 1.00              | 1.00               |
| 7    | Transformation losses                       | %            | 1.00%             | 1.00%              |
|      | Normative Plant Availability                |              |                   |                    |
| 8    | _   | %            |                   |                    |
|      | Factor (NAPAF)                              | D            |                   |                    |
| 9.1  | Maintenance Spares for WC                   | Rs.          |                   |                    |
| 0.2  |   | Lakh         |                   |                    |
| 9.2  | Receivable for WC                           | R. Lakh      |                   |                    |
| 9.3  | Base Rate of return on equity               | %            | 14                | 14                 |
| 9.4  | Tax Rate                                    | %            | Not Applicable    | Not Applicable     |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %            | 13.80%            | 12.90%             |
| 10.1 | Type  |              |                   |                    |
| 10.2 | Installed Capacity (Bo of Units x           | P.M.         | 200               | 200                |
| 10.2 | MW)   | KW           | 200               | 200                |
| 10.2 | Peaking capacity during lean                |              |                   |                    |
| 10.3 | period (MW)                                 |              |                   |                    |
| 10.4 | Type of Turbine                             |              |                   |                    |
|      | Rated Head (M)                              |              |                   |                    |
|      | Rated Discharge (Cumes)                     |              |                   |                    |
| 10.0 | rates Disensings (Cumes)                    |              | <u> </u>          |                    |

Name of the Hydro Generating Station : Sinyum Koro State/ Distt. Arunachal Pradesh/ Upper Subansiri District

| Detai | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAF  | ,   |            |                   |                    |
|       | & other normative para                                | meters con | sidered for Tarif | f                  |
| Sl.   | Description   | Unit       | 2019-20           | 2020-21            |
| No.   | Description   | Onit       | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                                    | KW         | 100               | 100                |
| 2     | Free Power to home state                              | %          | NIL               | NIL                |
| 3     | Date of commercial operation                          |            |                   |                    |
|       | Unit – 1  |            |                   |                    |
|       | Unit – 2  |            |                   |                    |
| 4     | Type of Station                                       |            |                   |                    |
|       | a) Surface/ underground                               |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage                       |            |                   |                    |
|       | c) Peaking/ non-peaking                               |            |                   |                    |
|       | d) No of hours of peaking                             |            |                   |                    |
|       | e) Overload capacity (MW) &                           |            |                   |                    |
|       | period  |            |                   |                    |
| 5     | Type of excitation                                    |            |                   |                    |
|       | a) Rotating exciters on generator                     |            |                   |                    |
|       | b) Static excitation                                  |            |                   |                    |
| 6     | Design Energy (Annual)                                | Mus        | 0.83              | 0.83               |
| 7     | Auxiliary Consumption including Transformation losses | %          | 1.00%             | 1.00%              |
| 8     | Normative Plant Availability<br>Factor (NAPAF)        | %          |                   |                    |
| 0.1   | Maintanana Suana fan WC                               | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                   |                    |
| 9.2   | Receivable for WC                                     | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity                         | %          | 14                | 14                 |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%            | 12.90%             |
| 10.1  | Type  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)                 | KW         | 100               | 100                |
| 10.3  | Peaking capacity during lean period (MW)              |            |                   |                    |
|       | Type of Turbine                                       |            |                   |                    |
|       | Rated Head (M)  |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                               |            |                   |                    |

Name of the Hydro Generating Station : Dulom (Daporijo) State/ Distt. Arunachal Pradesh/ Upper Subansiri District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW 400 400 NIL NIL 2 Free Power to home state % Date of commercial operation Unit -1Unit - 2Unit - 3Unit - 44 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 3.33 3.33 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 400 400 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

# Name of the Hydro Generating Station : Ayingmuri MHS State/ Distt. Arunachal Pradesh/ Upper Subansiri District

| Static excitation   Static excitation   Auxiliary Consumption including   Tansformation losses   Normative Palant Availability   Factor (NAPAF)   Factor (NAPAF)   Static excitation   S | Detai | ls of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A   | vailability Factor |
|--|-------|------------------------------------|------------|-------------------|--------------------|
| SI.   Description   Unit   2019-20 (Estimated)   (Projected)   | (NAI  |                                    |            |                   |                    |
| No.   Description   Unit   (Estimated)   (Projected)   |       | & other normative para             | meters cor | sidered for Tarif | f                  |
| No.   (Estimated) (Projected)  | Sl.   | Description                        | I Init     | 2019-20           | 2020-21            |
| 2   Free Power to home state   %   NIL   NIL   NIL   | No.   | Description                        | Oilit      | (Estimated)       | (Projected)        |
| 3   Date of commercial operation   | 1     | Installed Capacity                 | KW         | 250               | 250                |
| Unit - 1   | 2     | Free Power to home state           | %          | NIL               | NIL                |
| Unit - 2   | 3     |                                    |            |                   |                    |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   |       | Unit – 1                           |            |                   |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | Unit – 2                           |            |                   |                    |
| b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5  Type of excitation a) Rotating exciters on generator b) Static excitation 6  Design Energy (Annual)  | 4     | Type of Station                    |            |                   |                    |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   |       | a) Surface/ underground            |            |                   |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | b) Purely ROR/ Pondage/ Storage    |            |                   |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | c) Peaking/ non-peaking            |            |                   |                    |
| period  5 Type of excitation a) Rotating exciters on generator b) Static excitation  6 Design Energy (Annual) Mus 2.08 2.08  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | d) No of hours of peaking          |            |                   |                    |
| 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   |       | e) Overload capacity (MW) &        |            |                   |                    |
| a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | period                             |            |                   |                    |
| b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) % 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 5     | Type of excitation                 |            |                   |                    |
| 6 Design Energy (Annual) Mus 2.08 2.08 7 Auxiliary Consumption including Transformation losses 1.00% 1.00%  8 Normative Plant Availability Factor (NAPAF) %  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 %  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |       | a) Rotating exciters on generator  |            |                   |                    |
| 7Auxiliary Consumption including<br>Transformation losses%1.00%1.00%8Normative Plant Availability<br>Factor (NAPAF)%9.1Maintenance Spares for WCRs.<br>Lakh9.2Receivable for WCR. Lakh9.3Base Rate of return on equity%14149.4Tax Rate%Not ApplicableNot Applicable9.5Prime lending Rate of SBI as on<br>April' 2017%13.80%12.90%10.1Type10.2Installed Capacity (Bo of Units x<br>MW)KW25025010.3Peaking capacity during lean<br>period (MW)KW25025010.4Type of Turbine10.5Rated Head (M)  |       | b) Static excitation               |            | 1                 |                    |
| 7Auxiliary Consumption including<br>Transformation losses%1.00%1.00%8Normative Plant Availability<br>Factor (NAPAF)%9.1Maintenance Spares for WCRs.<br>Lakh9.2Receivable for WCR. Lakh9.3Base Rate of return on equity%14149.4Tax Rate%Not ApplicableNot Applicable9.5Prime lending Rate of SBI as on<br>April' 2017%13.80%12.90%10.1Type10.2Installed Capacity (Bo of Units x<br>MW)KW25025010.3Peaking capacity during lean<br>period (MW)KW25025010.4Type of Turbine10.5Rated Head (M)  | 6     | Design Energy (Annual)             | Mus        | 2.08              | 2.08               |
| Transformation losses   8   Normative Plant Availability   90  | 7     | Auxiliary Consumption including    | 0/         | 1.000/            | 1.000/             |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | /     | Transformation losses              | %0         | 1.00%             | 1.00%              |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0     | Normative Plant Availability       | 0/         |                   |                    |
| 9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 8     | Factor (NAPAF)                     | %0         |                   |                    |
| 9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0.1   | M. A. C. C. W.C.                   | Rs.        |                   |                    |
| 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 9.1   | Maintenance Spares for WC          | Lakh       |                   |                    |
| 9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90%  10.1 Type   | 9.2   | Receivable for WC                  | R. Lakh    |                   |                    |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.3   | Base Rate of return on equity      | %          | 14                | 14                 |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4   | Tax Rate                           | %          | Not Applicable    | Not Applicable     |
| 10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 9.5   | _                                  | %          | 13.80%            |                    |
| 10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.1  | <u> </u>                           |            |                   |                    |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  |       | T 11 1 5 1 /D ATT 1                | 1/337      | 250               | 250                |
| 10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2  | MW)                                | KW         | 250               | 250                |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | Peaking canacity during lean       |            |                   |                    |
| 10.4 Type of Turbine 10.5 Rated Head (M)   | 10.3  |                                    |            |                   |                    |
| 10.5 Rated Head (M)  | 10.4  | ± ` /                              |            |                   |                    |
|  |       | * 4                                |            |                   |                    |
|  |       | `                                  |            |                   |                    |

#### Name of the Hydro Generating Station : limeking MHS State/ Distt. Arunachal Pradesh/ Upper Subansiri District

| Solition   Description   Unit   2019-20   2020-21  |      | ls of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A   | vailability Factor |
|--|------|------------------------------------|------------|-------------------|--------------------|
| Sl. No.   Description   Unit   2019-20 (Estimated)   (Projected)   | (NAI |                                    | matama aam | sidonad for Torif | <u>c</u>           |
| No.   Description   Unit   (Estimated)   (Projected)   | G1   | & other normative para             | meters con |                   |                    |
| No.  |      | Description                        | Unit       |                   |                    |
| Pree Power to home state   |      | 1                                  |            |                   |                    |
| Date of commercial operation   |      |                                    |            |                   |                    |
| Unit - 1   |      |                                    | %          | NIL               | NIL                |
| Type of Station  | 3    |                                    |            |                   |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5  Type of excitation a) Rotating exciters on generator b) Static excitation 6  Design Energy (Annual)   |      |                                    |            |                   |                    |
| b) Purely ROR/ Pondage/ Storage   c) Peaking/ non-peaking   d) No of hours of peaking   e) Overload capacity (MW) & period   period (MW)   period   period (MW)   period (Packing of Data Normative Plant Availability   period (MW)   peri | 4    |                                    |            |                   |                    |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5  Type of excitation a) Rotating exciters on generator b) Static excitation 6  Design Energy (Annual) 7  Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1  Maintenance Spares for WC 9.2  Receivable for WC 9.3  Base Rate of return on equity 9.4  Tax Rate 9.5  Prime lending Rate of SBI as on April' 2017  10.1  Type 10.2  Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4  Type of Turbine 10.5  Rated Head (M)   |      | a) Surface/ underground            |            |                   |                    |
| d) No of hours of peaking   e) Overload capacity (MW) & period   |      | b) Purely ROR/ Pondage/ Storage    |            |                   |                    |
| e) Overload capacity (MW) & period   |      | c) Peaking/ non-peaking            |            |                   |                    |
| period   |      | d) No of hours of peaking          |            |                   |                    |
| 5 Type of excitation         a) Rotating exciters on generator           b) Static excitation         b) Static excitation           6 Design Energy (Annual)         Mus         0.25         0.25           7 Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8 Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1 Maintenance Spares for WC         Rs. Lakh         Lakh           9.2 Receivable for WC         R. Lakh         Not Applicable           9.3 Base Rate of return on equity         %         14         14           9.4 Tax Rate         % Not Applicable         Not Applicable           9.5 Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1 Type         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3 Peaking capacity during lean period (MW)         Reserved         Reserved         Reserved         Reserved           10.5 Rated Head (M)         Reserved         Reserved <td></td> <td>e) Overload capacity (MW) &amp;</td> <td></td> <td></td> <td></td>   |      | e) Overload capacity (MW) &        |            |                   |                    |
| a) Rotating exciters on generator   b) Static excitation   Compared to   |      | period                             |            |                   |                    |
| b) Static excitation   Comparison   Compar | 5    | Type of excitation                 |            |                   |                    |
| 6         Design Energy (Annual)         Mus         0.25         0.25           7         Auxiliary Consumption including Transformation losses         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %   |      | a) Rotating exciters on generator  |            |                   |                    |
| 7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1         Maintenance Spares for WC         Rs. Lakh           9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         Type         Type           10.2         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3         Peaking capacity during lean period (MW)         Type of Turbine         Type of Turbine           10.5         Rated Head (M)         Type of Turbine         Type of Turbine  |      | b) Static excitation               |            |                   |                    |
| Transformation losses  | 6    | Design Energy (Annual)             | Mus        | 0.25              | 0.25               |
| Transformation losses  | 7    | Auxiliary Consumption including    | 0/.        | 1.00%             | 1 00%              |
| Sector (NAPAF)   Sector (NAPAF)   Sector (NAPAF)   | ,    | Transformation losses              | 70         | 1.0070            | 1.0070             |
| 9.1       Maintenance Spares for WC       Rs. Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type         10.2       Installed Capacity (Bo of Units x MW)       KW       30       30         10.3       Peaking capacity during lean period (MW)       Feed the period (MW)       Type of Turbine       Type of Turbine         10.5       Rated Head (M)       Feed the period (MW)       Type of Turbine       Type of Turbine   | 0    | Normative Plant Availability       | 0/         |                   |                    |
| 9.1       Maintenance Spares for WC       Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type         10.2       Installed Capacity (Bo of Units x MW)       KW       30       30         10.3       Peaking capacity during lean period (MW)       Type of Turbine       Installed Head (M)  | 0    | Factor (NAPAF)                     | 70         |                   |                    |
| 9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type       Type         10.2       Installed Capacity (Bo of Units x MW)       KW       30       30         10.3       Peaking capacity during lean period (MW)       Type of Turbine       Type of Turbine         10.5       Rated Head (M)       Type of Turbine       Type of Turbine   | 9.1  | Maintenance Spares for WC          |            |                   |                    |
| 9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3         Peaking capacity during lean period (MW)         Peaking capacity during lean period (MW)         Installed Capacity (Bo of Units x MW)         Installed Capacity during lean period (MW)           10.4         Type of Turbine         Installed Capacity (Bo of Units x MW)   | 9.2  | Receivable for WC                  | R. Lakh    |                   |                    |
| 9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type  | 9.3  | Base Rate of return on equity      | %          | 14                | 14                 |
| 9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type  | 9.4  | Tax Rate                           | %          | Not Applicable    | Not Applicable     |
| Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 9.5  |                                    | %          | 13.80%            | 12.90%             |
| 10.2 MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.1 | Туре                               |            |                   |                    |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2 | MW)                                | KW         | 30                | 30                 |
| 10.5 Rated Head (M)  |      | period (MW)                        |            |                   |                    |
| 10.5 Rated Head (M)  | 10.4 | Type of Turbine                    |            |                   |                    |
| 10.6 Rated Discharge (Cumes)   |      |                                    |            |                   |                    |
| · · · · · · · · · · · · · · · · · · ·  | 10.6 | Rated Discharge (Cumes)            |            |                   |                    |

Name of the Hydro Generating Station : Kojin Nallah State/ Distt. Arunachal Pradesh/ Upper Subansiri District

| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | Detai | ls of Cod, Type of Hydro Stations,      | Normative  | Annual Plant, A   | vailability Factor |
|--|-------|---|------------|-------------------|--------------------|
| SI.   Description   Unit   (Estimated)   (Projected)   | (NAF  | PAF)                                    |            |                   |                    |
| No.   Description   Unit   (Estimated)   (Projected)   |       | & other normative para                  | meters con | sidered for Tarif | f                  |
| No.   (Estimated) (Projected)  | Sl.   | Description                             | I Init     | 2019-20           | 2020-21            |
| 2   Free Power to home state   %   NIL   NIL   | No.   | Description                             | Ullit      | (Estimated)       | (Projected)        |
| 3   Date of commercial operation   Unit - 1   Unit - 2   | 1     | Installed Capacity                      | KW         | 100               | 100                |
| Unit – 1 Unit – 2  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) | 2     | Free Power to home state                | %          | NIL               | NIL                |
| Unit - 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  e) Overload capacity (MW) & period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual)  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity % 14 14 14 14 14 14 14 14 14 14 14 14 14   | 3     | Date of commercial operation            |            |                   |                    |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses Normative Plant Availability % Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 MW) 10.3 Peaking capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M) |       | Unit – 1                                |            |                   |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability % Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 MW)  10.3 Peaking capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)           |       | Unit – 2                                |            |                   |                    |
| b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  Auxiliary Consumption including Transformation losses Normative Plant Availability % Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)                       | 4     | Type of Station                         |            |                   |                    |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | a) Surface/ underground                 |            |                   |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine 10.5 Rated Head (M)  |       | b) Purely ROR/ Pondage/ Storage         |            |                   |                    |
| e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation  6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | c) Peaking/ non-peaking                 |            |                   |                    |
| period  5 Type of excitation a) Rotating exciters on generator b) Static excitation  6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       |   |            |                   |                    |
| 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | e) Overload capacity (MW) &             |            |                   |                    |
| a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | period                                  |            |                   |                    |
| b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 5     | Type of excitation                      |            |                   |                    |
| 6 Design Energy (Annual)  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | a) Rotating exciters on generator       |            |                   |                    |
| 7Auxiliary Consumption including Transformation losses1.00%8Normative Plant Availability Factor (NAPAF)%9.1Maintenance Spares for WCRs. Lakh9.2Receivable for WCR. Lakh9.3Base Rate of return on equity%14149.4Tax Rate%Not ApplicableNot Applicable9.5Prime lending Rate of SBI as on April' 2017%13.80%12.90%10.1Type10.2Installed Capacity (Bo of Units x MW)KW10010010.3Peaking capacity during lean period (MW)10.4Type of Turbine10.5Rated Head (M)  |       | b) Static excitation                    |            | 1                 |                    |
| 7Auxiliary Consumption including Transformation losses1.00%8Normative Plant Availability Factor (NAPAF)%9.1Maintenance Spares for WCRs. Lakh9.2Receivable for WCR. Lakh9.3Base Rate of return on equity%14149.4Tax Rate%Not ApplicableNot Applicable9.5Prime lending Rate of SBI as on April' 2017%13.80%12.90%10.1Type10.2Installed Capacity (Bo of Units x MW)KW10010010.3Peaking capacity during lean period (MW)10.4Type of Turbine10.5Rated Head (M)  | 6     | Design Energy (Annual)                  | Mus        | 0.83              | 0.83               |
| Transformation losses  Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 7     | Auxiliary Consumption including         | 0/         | 1.000/            | 1 000/             |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | /     |   | %0         | 1.00%             | 1.00%              |
| Factor (NAPAF)  9.1 Maintenance Spares for WC  Rs. Lakh  9.2 Receivable for WC  R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0     | Normative Plant Availability            | 0/         |                   |                    |
| 9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 8     | Factor (NAPAF)                          | %0         |                   |                    |
| 9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0.1   | M · · · · · · · · · · · · · · · · · · · | Rs.        |                   |                    |
| 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 9.1   | Maintenance Spares for WC               | Lakh       |                   |                    |
| 9.4 Tax Rate   | 9.2   | Receivable for WC                       | R. Lakh    |                   |                    |
| 9.4 Tax Rate   | 9.3   | Base Rate of return on equity           | %          | 14                | 14                 |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4   |   | %          | Not Applicable    | Not Applicable     |
| 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0.5   | Prime lending Rate of SBI as on         | 0/         |                   |                    |
| 10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 9.5   | _                                       | <b>%</b> 0 | 13.80%            | 12.90%             |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine 10.5 Rated Head (M)   | 10.1  | Туре                                    |            |                   |                    |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine 10.5 Rated Head (M)   | 10.2  |   | VIII       | 100               | 100                |
| 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 10.2  |   | KW         | 100               | 100                |
| 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 10.2  | Peaking capacity during lean            |            |                   |                    |
| 10.4 Type of Turbine 10.5 Rated Head (M)   | 10.3  |   |            |                   |                    |
| 10.5 Rated Head (M)  | 10.4  | 1 \                                     |            |                   |                    |
|  |       | * 1                                     |            |                   |                    |
| 10.6 Rated Discharge (Cumes)   |       | `                                       |            |                   |                    |

Name of the Hydro Generating Station : Pagi (Basar) State/ Distt. Arunachal Pradesh/ West Siang District

| (NAPAF)  & other normative parameters considered for Tariff  S1. Description  Unit  Installed Capacity  Estimated)  Pree Power to home state  Unit - 1  Unit - 1  Unit - 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  e) Overload capacity (MW) &   |      |
|--|------|
| SI. No.         Description         Unit         2019-20 (Estimated)         2020-21 (Projected)           1 Installed Capacity         KW         100         100           2 Free Power to home state         %         NIL         NIL           3 Date of commercial operation         Unit - 1         Unit - 2           4 Type of Station         a) Surface/ underground         b) Purely ROR/ Pondage/ Storage           c) Peaking/ non-peaking         d) No of hours of peaking |      |
| No. Description Unit (Estimated) (Projected Installed Capacity KW 100 100  2 Free Power to home state % NIL NIL  3 Date of commercial operation Unit - 1 Unit - 2  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking   |      |
| No.   (Estimated) (Projected)  1 Installed Capacity   KW   100   100  2 Free Power to home state   %   NIL   NIL    3 Date of commercial operation   Unit - 1    Unit - 2    4 Type of Station   a) Surface/ underground    b) Purely ROR/ Pondage/ Storage   c) Peaking/ non-peaking   d) No of hours of peaking  | 1)   |
| 2 Free Power to home state  % NIL NIL 3 Date of commercial operation  Unit - 1  Unit - 2  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking  |      |
| 3 Date of commercial operation  Unit - 1  Unit - 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  |      |
| Unit – 1 Unit – 2  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking   |      |
| Unit – 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  |      |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking  |      |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking  |      |
| b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking  |      |
| c) Peaking/ non-peaking d) No of hours of peaking  |      |
| d) No of hours of peaking  |      |
|  |      |
| e) Overload capacity (MW) &  |      |
|  |      |
| period   |      |
| 5 Type of excitation   |      |
| a) Rotating exciters on generator  |      |
| b) Static excitation   |      |
| 6 Design Energy (Annual) Mus 0.83 0.83   |      |
| 7 Auxiliary Consumption including 7 Transformation losses 1.00% 1.00%  |      |
| 8 Normative Plant Availability Factor (NAPAF)  %   |      |
| Rs.  |      |
| 9.1 Maintenance Spares for WC Lakh   |      |
| 9.2 Receivable for WC R. Lakh  |      |
| 9.3 Base Rate of return on equity % 14 14  |      |
| 9.4 Tax Rate % Not Applicable Not Applica  | able |
| 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90%  |      |
| 10.1 Type  |      |
| 10.2 Installed Capacity (Bo of Units x KW 100 100  |      |
| 10.3 Peaking capacity during lean period (MW)  |      |
| 10.4 Type of Turbine   |      |
| 10.5 Rated Head (M)  |      |
| 10.6 Rated Discharge (Cumes)   |      |

Name of the Hydro Generating Station : Along State/ Distr. Arunachal Pradesh/ West Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW 400 400 NIL NIL 2 Free Power to home state % Date of commercial operation Unit – 1 Unit - 2Unit - 3Unit - 44 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 3.33 3.33 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 400 400 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station: Ego-Echi (Dali)
State/ Distt. Arunachal Pradesh/ West Siang District

Details of Cod. Type of Hydro Stations. Normative Appu

| Detai | ls of Cod, Type of Hydro Stations,          | Normative  | e Annual Plant, A  | vailability Factor |
|-------|---|------------|--------------------|--------------------|
| (NAF  | PAF)  |            |                    |                    |
|       | & other normative para                      | meters cor | nsidered for Tarif | f                  |
| Sl.   | Decemention                                 | I Init     | 2019-20            | 2020-21            |
| No.   | Description                                 | Unit       | (Estimated)        | (Projected)        |
| 1     | Installed Capacity                          | KW         | 400                | 400                |
| 2     | Free Power to home state                    | %          | NIL                | NIL                |
| 3     | Date of commercial operation                |            |                    |                    |
|       | Unit – 1                                    |            |                    |                    |
|       | Unit – 2                                    |            |                    |                    |
|       | Unit – 3                                    |            |                    |                    |
|       | Unit – 4                                    |            |                    |                    |
| 4     | Type of Station                             |            |                    |                    |
|       | a) Surface/ underground                     |            |                    |                    |
|       |   |            |                    |                    |
|       | b) Purely ROR/ Pondage/ Storage             |            |                    |                    |
|       | c) Peaking/ non-peaking                     |            |                    |                    |
|       | d) No of hours of peaking                   |            |                    |                    |
|       | e) Overload capacity (MW) &                 |            |                    |                    |
|       | period (MW)                                 |            |                    |                    |
| 5     | Type of excitation                          |            |                    |                    |
|       | a) Rotating exciters on generator           |            |                    |                    |
|       | b) Static excitation                        |            | -                  |                    |
| 6     | Design Energy (Annual)                      | Mus        | 3.33               | 3.33               |
| 0     | Auxiliary Consumption including             | Ivius      | 3.33               | 3.33               |
| 7     | Transformation losses                       | %          | 1.00%              | 1.00%              |
| 8     | Normative Plant Availability                | %          |                    |                    |
|       | Factor (NAPAF)                              | D          |                    |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.        |                    |                    |
| 0.2   | _   | Lakh       |                    |                    |
|       | Receivable for WC                           | R. Lakh    | 1.1                | 1.4                |
| 9.3   | Base Rate of return on equity               | %          | 14                 | 14                 |
| 9.4   | Tax Rate                                    | %          | Not Applicable     | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%             | 12.90%             |
| 10.1  | Туре  |            |                    |                    |
|       | Installed Capacity (Bo of Units x MW)       | KW         | 400                | 400                |
| 10.3  | Peaking capacity during lean                |            |                    |                    |
|       | period (MW)                                 |            |                    |                    |
|       | Type of Turbine                             |            |                    |                    |
|       | Rated Head (M)                              |            |                    |                    |
| 10.6  | Rated Discharge (Cumes)                     |            |                    |                    |

Name of the Hydro Generating Station : Mechuka State/ Distt. Arunachal Pradesh/ West Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| Installed Capacity   | (NAPAF) |                                       |            |                    |                |  |
|--|---------|---------------------------------------|------------|--------------------|----------------|--|
| No.   Description   Unit   (Estimated)   (Projected)   |         | & other normative para                | meters cor | nsidered for Tarif | f              |  |
| No.  | Sl.     | D                                     | TT '4      | 2019-20            | 2020-21        |  |
| 2   Free Power to home state   %   NIL   NIL     3   Date of commercial operation   Unit - 1   | No.     | Description                           | Unit       | (Estimated)        | (Projected)    |  |
| 3   Date of commercial operation   Unit - 1   Unit - 2   Unit - 3   Unit - 4   Unit - 5   Unit - 6   4   Type of Station   a) Surface/ underground   b) Purely ROR/ Pondage/ Storage   c) Peaking/ non-peaking   d) No of hours of peaking   e) Overload capacity (MW) & period   5   Type of excitation   a) Rotating exciters on generator   b) Static excitation   6   Design Energy (Annual)   Mus   1.25   1.25   1.25   7   Auxiliary Consumption including   Transformation losses   8   Normative Plant Availability   Factor (NAPAF)   Rs. Lakh   Lakh   9.1   Maintenance Spares for WC   R. Lakh   R. Lakh   9.2   Receivable for WC   R. Lakh   R. Lakh   9.4   Tax Rate   %   Not Applicable   Not Applical   9.5   April' 2017   10.1   Type   10.2   Installed Capacity (Bo of Units x   KW   150   | 1       | Installed Capacity                    | KW         | 150                | 150            |  |
| Unit - 1   | 2       | Free Power to home state              | %          | NIL                | NIL            |  |
| Unit - 2   | 3       | Date of commercial operation          |            |                    |                |  |
| Unit - 3   |         | Unit – 1                              |            |                    |                |  |
| Unit – 4 Unit – 5 Unit – 6  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x KW 150 150  |         | Unit – 2                              |            |                    |                |  |
| Unit – 5 Unit – 6  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 9% 14 14 14 150 150 150 150  |         | Unit – 3                              |            |                    |                |  |
| Unit – 6 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity 9 Mot Applicable 9.5 April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x) KW 150  150  |         | Unit – 4                              |            |                    |                |  |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x) 150  |         | Unit – 5                              |            |                    |                |  |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x) 150  |         | Unit – 6                              |            |                    |                |  |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applical 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x KW 150 150  | 4       | Type of Station                       |            |                    |                |  |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applical 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x KW 150 150   |         |                                       |            |                    |                |  |
| d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applical 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x KW 150 150  |         | b) Purely ROR/ Pondage/ Storage       |            |                    |                |  |
| d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.25 1.25 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applical 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x KW 150 150  |         | c) Peaking/ non-peaking               |            |                    |                |  |
| e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation  6 Design Energy (Annual) Mus 1.25 1.25  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x)  KW 150  1.00%  1.00%  1.00% 1.00 |         |                                       |            |                    |                |  |
| period   |         |                                       |            |                    |                |  |
| 5         Type of excitation           a) Rotating exciters on generator         b) Static excitation           6         Design Energy (Annual)         Mus         1.25         1.25           7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1         Maintenance Spares for WC         Rs. Lakh           9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applical           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         150         150  |         |                                       |            |                    |                |  |
| a) Rotating exciters on generator b) Static excitation  6 Design Energy (Annual) Mus 1.25 1.25  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicate Not Appl | 5       |                                       |            |                    |                |  |
| b) Static excitation  6 Design Energy (Annual) Mus 1.25 1.25  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicate Not Applicate Not Applicate Not Applicate Not April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x KW 150 150  |         |                                       |            |                    |                |  |
| 7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x)  KW  1.00%   |         |                                       |            | 1                  |                |  |
| 7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity 9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x)  1.00%  | 6       | Design Energy (Annual)                | Mus        | 1.25               | 1.25           |  |
| Transformation losses  | 7       |                                       | 0/         | 1.000/             | 1.000/         |  |
| Section (NAPAF)   Factor (NAPAF)   Parallel  | /       | Transformation losses                 | %0         | 1.00%              | 1.00%          |  |
| Section (NAPAF)   Factor (NAPAF)   Parallel  | 0       | Normative Plant Availability          | 0/         |                    |                |  |
| 9.1         Maintenance Spares for WC         Lakh           9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         150         150   | 8       |                                       | %0         |                    |                |  |
| 9.2   Receivable for WC   R. Lakh     9.3   Base Rate of return on equity   %   14   14   14   9.4   Tax Rate   %   Not Applicable   Not Applicable   Prime lending Rate of SBI as on April' 2017   10.1   Type   10.2   Installed Capacity (Bo of Units x   KW   150    | 0.1     | Maintananaa Snaraa far WC             | Rs.        |                    |                |  |
| 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applical 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type 10.2 Installed Capacity (Bo of Units x KW 150 150   | 9.1     | Maintenance Spares for WC             | Lakh       |                    |                |  |
| 9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         150         150   |         |                                       | R. Lakh    |                    |                |  |
| 9.5 Prime lending Rate of SBI as on April' 2017  | 9.3     | Base Rate of return on equity         | %          | 14                 | 14             |  |
| 9.5   April' 2017   %   13.80%   12.90%   10.1   Type  | 9.4     |                                       | %          | Not Applicable     | Not Applicable |  |
| 10.2 Installed Capacity (Bo of Units x KW 150 150  | 9.5     | _                                     | %          | 13.80%             | 12.90%         |  |
| 11071 1 KW 1 150 1 150   | 10.1    | Туре                                  |            |                    |                |  |
| <del>                           </del>   | 10.2    | Installed Capacity (Bo of Units x MW) | KW         | 150                | 150            |  |
| 10.3 Peaking capacity during lean period (MW)  | 10.3    |                                       |            |                    |                |  |
| 10.4 Type of Turbine   | 10.4    | •                                     |            |                    |                |  |
| 10.5 Rated Head (M)  |         | * *                                   |            |                    |                |  |
| 10.6 Rated Discharge (Cumes)   |         | 1 /                                   |            |                    |                |  |

Name of the Hydro Generating Station : Yomcha State/ Distt. Arunachal Pradesh/ West Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW 50 50 NIL 2 Free Power to home state NIL % Date of commercial operation Unit - 1Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation Design Energy (Annual) 0.42 0.42 Mus **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % 8 Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW50 50 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Beye State/ Distt. Arunachal Pradesh/ West Siang District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |             |                   |                |  |
|-------|---|-------------|-------------------|----------------|--|
| (NAI  | (NAPAF)   |             |                   |                |  |
|       | & other normative para  | meters con  | sidered for Tarif | f              |  |
| Sl.   | Dogarintian   | Unit        | 2019-20           | 2020-21        |  |
| No.   | Description   | Ullit       | (Estimated)       | (Projected)    |  |
| 1     | Installed Capacity  | KW          | 30                | 30             |  |
| 2     | Free Power to home state  | %           | NIL               | NIL            |  |
| 3     | Date of commercial operation  |             |                   |                |  |
|       | Unit – 1  |             |                   |                |  |
| 4     | Type of Station   |             |                   |                |  |
|       | a) Surface/ underground   |             |                   |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |             |                   |                |  |
|       | c) Peaking/ non-peaking   |             |                   |                |  |
|       | d) No of hours of peaking   |             |                   |                |  |
|       | e) Overload capacity (MW) &   |             |                   |                |  |
|       | period  |             |                   |                |  |
| 5     | Type of excitation  |             |                   |                |  |
|       | a) Rotating exciters on generator   |             |                   |                |  |
|       | b) Static excitation  |             |                   |                |  |
| 6     | Design Energy (Annual)  | Mus         | 0.25              | 0.25           |  |
| 7     | Auxiliary Consumption including   | %           | 1.00%             | 1.00%          |  |
|       | Transformation losses   | /0          | 1.0070            | 1.0070         |  |
| 8     | Normative Plant Availability  | %           |                   |                |  |
| 0     | Factor (NAPAF)  |             |                   |                |  |
| 9.1   | Maintenance Spares for WC   | Rs.<br>Lakh |                   |                |  |
| 9.2   | Receivable for WC   | R. Lakh     |                   |                |  |
| 9.3   | Base Rate of return on equity   | %           | 14                | 14             |  |
|       | Tax Rate  | %           | Not Applicable    | Not Applicable |  |
| 9.5   | Prime lending Rate of SBI as on April' 2017   | %           | 13.80%            | 12.90%         |  |
| 10.1  | Type  |             |                   |                |  |
| 10.2  | Installed Capacity (Bo of Units x MW)   | KW          | 30                | 30             |  |
| 10.3  | Peaking capacity during lean period (MW)  |             |                   |                |  |
| 10.4  | Type of Turbine   |             |                   |                |  |
|       | Rated Head (M)  |             |                   |                |  |
| 10.6  | Rated Discharge (Cumes)   |             |                   |                |  |

Name of the Hydro Generating Station : Kambang State/ Distt. Arunachal Pradesh/ West Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2020-21 2019-20 Unit Description (Estimated) (Projected) No. Installed Capacity KW 6000 6000 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit – 2 Unit - 3Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 49.93 49.93 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 14 % 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 6000 6000 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Liromoba State/ Distt. Arunachal Pradesh/ West Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2020-21 2019-20 Unit Description (Estimated) (Projected) No. Installed Capacity KW 2000 2000 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit - 2Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation Design Energy (Annual) Mus 16.64 16.64 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 2000 2000 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Yingko Sikong at Rapum State/ Distt. Arunachal Pradesh/ West Siang District

|        | ils of Cod, Type of Hydro Stations,         |             |                   | vailability Factor |
|--------|---|-------------|-------------------|--------------------|
| (NAF   |   | Normany     | Aimuai i iait, A  | vanaomity i actor  |
| (11/11 | & other normative para                      | meters cor  | sidered for Tarif | f                  |
| Sl.    | _   |             | 2019-20           | 2020-21            |
| No.    | Description                                 | Unit        | (Estimated)       | (Projected)        |
| 1      | Installed Capacity                          | KW          | 50                | 50                 |
| 2      | Free Power to home state                    | %           | NIL               | NIL                |
| 3      | Date of commercial operation                |             |                   |                    |
|        | Unit – 1                                    |             |                   |                    |
| 4      | Type of Station                             |             |                   |                    |
|        | a) Surface/ underground                     |             |                   |                    |
|        | b) Purely ROR/ Pondage/ Storage             |             |                   |                    |
|        | c) Peaking/ non-peaking                     |             |                   |                    |
|        | d) No of hours of peaking                   |             |                   |                    |
|        | e) Overload capacity (MW) &                 |             |                   |                    |
|        | period                                      |             |                   |                    |
| 5      | Type of excitation                          |             |                   |                    |
|        | a) Rotating exciters on generator           |             |                   |                    |
|        | b) Static excitation                        |             | 1                 |                    |
| 6      | Design Energy (Annual)                      | Mus         | 0.42              | 0.42               |
| 7      | Auxiliary Consumption including             | %           | 1.00%             | 1.00%              |
| /      | Transformation losses                       | %0          | 1.00%             | 1.00%              |
| 8      | Normative Plant Availability                | %           |                   |                    |
| 0      | Factor (NAPAF)                              | 70          |                   |                    |
| 9.1    | Maintenance Spares for WC                   | Rs.<br>Lakh |                   |                    |
| 9.2    | Receivable for WC                           | R. Lakh     |                   |                    |
| 9.3    | Base Rate of return on equity               | %           | 14                | 14                 |
| 9.4    | Tax Rate                                    | %           | Not Applicable    | Not Applicable     |
| 9.5    | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%            | 12.90%             |
| 10.1   | Туре  |             |                   |                    |
| 10.2   | Installed Capacity (Bo of Units x MW)       | KW          | 50                | 50                 |
| 10.3   | Peaking capacity during lean period (MW)    |             |                   |                    |
| 10.4   | Type of Turbine                             |             |                   |                    |
|        | Rated Head (M)                              |             |                   |                    |
|        | Rated Discharge (Cumes)                     |             |                   |                    |

Name of the Hydro Generating Station : Angu State/ Distt. Arunachal Pradesh/ West Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW Free Power to home state NIL NIL % Date of commercial operation Unit - 1 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation Design Energy (Annual) 0.42 0.42 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on % 12.90% 13.80% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 50 50 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Solegomang MHS State/ Distr. Arunachal Pradesh/ West Siang District

| Detai | ls of Cod, Type of Hydro Stations,          | Normative   | Annual Plant, A | vailability Factor |
|-------|---|-------------|-----------------|--------------------|
| (NAF  |   |             |                 |                    |
|       | & other normative para                      | meters con  |                 |                    |
| Sl.   | Description                                 | Unit        | 2019-20         | 2020-21            |
| No.   | Description                                 | Ullit       | (Estimated)     | (Projected)        |
| 1     | Installed Capacity                          | KW          | 50              | 50                 |
| 2     | Free Power to home state                    | %           | NIL             | NIL                |
| 3     | Date of commercial operation                |             |                 |                    |
|       | Unit – 1                                    |             |                 |                    |
| 4     | Type of Station                             |             |                 |                    |
|       | a) Surface/ underground                     |             |                 |                    |
|       | b) Purely ROR/ Pondage/ Storage             |             |                 |                    |
|       | c) Peaking/ non-peaking                     |             |                 |                    |
|       | d) No of hours of peaking                   |             |                 |                    |
|       | e) Overload capacity (MW) &                 |             |                 |                    |
|       | period                                      |             |                 |                    |
| 5     | Type of excitation                          |             |                 |                    |
|       | a) Rotating exciters on generator           |             |                 |                    |
|       | b) Static excitation                        |             | 1               |                    |
| 6     | Design Energy (Annual)                      | Mus         | 0.42            | 0.42               |
| 7     | Auxiliary Consumption including             | %           | 1.00%           | 1.00%              |
| /     | Transformation losses                       | 70          | 1.00%           | 1.00%              |
| 8     | Normative Plant Availability                | %           |                 |                    |
| 0     | Factor (NAPAF)                              | 70          |                 |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.<br>Lakh |                 |                    |
| 9.2   | Receivable for WC                           | R. Lakh     |                 |                    |
| 9.3   | Base Rate of return on equity               | %           | 14              | 14                 |
|       | Tax Rate                                    | %           | Not Applicable  | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%          | 12.90%             |
| 10.1  | Туре  |             |                 |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)       | KW          | 50              | 50                 |
| 10.3  | Peaking capacity during lean period (MW)    |             |                 |                    |
| 10.4  | Type of Turbine                             |             |                 |                    |
|       | Rated Head (M)                              |             |                 |                    |
| 10.6  | Rated Discharge (Cumes)                     |             |                 |                    |

# Name of the Hydro Generating Station : Borung MHS State/ Distt. Arunachal Pradesh/ West Siang District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                   |                |  |
|-------|---|------------|-------------------|----------------|--|
| (NAF  | (NAPAF)   |            |                   |                |  |
|       | & other normative para  | meters con | sidered for Tarif | f              |  |
| Sl.   | Description   | Unit       | 2019-20           | 2020-21        |  |
| No.   | L + 11 1 C - '  | IZW        | (Estimated)       | (Projected) 50 |  |
| 1     | Installed Capacity  | KW         | 50                |                |  |
| 2     | Free Power to home state  | %          | NIL               | NIL            |  |
| 3     | Date of commercial operation  |            |                   |                |  |
|       | Unit – 1  |            |                   |                |  |
| 4     | Type of Station   |            |                   |                |  |
|       | a) Surface/ underground   |            |                   |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |            |                   |                |  |
|       | c) Peaking/ non-peaking   |            |                   |                |  |
|       | d) No of hours of peaking   |            |                   |                |  |
|       | e) Overload capacity (MW) &   |            |                   |                |  |
|       | period  |            |                   |                |  |
| 5     | Type of excitation  |            |                   |                |  |
|       | a) Rotating exciters on generator   |            |                   |                |  |
|       | b) Static excitation  |            |                   |                |  |
| 6     | Design Energy (Annual)  | Mus        | 0.42              | 0.42           |  |
| 7     | Auxiliary Consumption including   | 0/         | 1.000/            | 1.000/         |  |
| 7     | Transformation losses   | %          | 1.00%             | 1.00%          |  |
| 0     | Normative Plant Availability  | 0/         |                   |                |  |
| 8     | Factor (NAPAF)  | %          |                   |                |  |
| 0.1   | , ,   | Rs.        |                   |                |  |
| 9.1   | Maintenance Spares for WC   | Lakh       |                   |                |  |
| 9.2   | Receivable for WC   | R. Lakh    |                   |                |  |
| 9.3   | Base Rate of return on equity   | %          | 14                | 14             |  |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable |  |
| 9.5   | Prime lending Rate of SBI as on April' 2017   | %          | 13.80%            | 12.90%         |  |
| 10.1  | Туре  |            |                   |                |  |
| 10.2  | Installed Capacity (Bo of Units x   | KW         | 50                | 50             |  |
|       | MW)   | **         | - *               | - 4            |  |
| 10.3  | Peaking capacity during lean period (MW)  |            |                   |                |  |
| 10.4  | Type of Turbine   |            |                   |                |  |
|       | Rated Head (M)  |            |                   |                |  |
|       | Rated Discharge (Cumes)   |            |                   |                |  |
| 10.0  | Raica Discharge (Culles)  |            |                   |                |  |

Name of the Hydro Generating Station : Sirikorang MHS State/ Distr. Arunachal Pradesh/ West Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description No. (Estimated) (Projected) Installed Capacity 1 KW 500 500 2 Free Power to home state NIL NIL % Date of commercial operation Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 4.16 4.16 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 500 500 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station: Yingkiong Ph-I State/ Dist. Arunachal Pradesh/ Upper Siang District

Details of Cod. Type of Hydro Stations, Normative Apple

| (NAPAF)                                     |          |
|---|----------|
| & other normative parameters considered for | Tariff   |
| SI. 2019-20                                 |          |
| No. Description Unit Estimate               |          |
| 1 Installed Capacity KW 150                 | 150      |
| 2 Free Power to home state % NIL            | NIL      |
|   | NIL      |
| <u> </u>                                    |          |
| Unit – 1                                    |          |
| Unit – 2                                    |          |
| Unit – 3                                    |          |
| 4 Type of Station                           |          |
| a) Surface/ underground                     |          |
| b) Purely ROR/ Pondage/ Storage             |          |
| c) Peaking/ non-peaking                     |          |
| d) No of hours of peaking                   |          |
| e) Overload capacity (MW) &                 |          |
| period                                      |          |
| 5 Type of excitation                        |          |
| a) Rotating exciters on generator           | •        |
| b) Static excitation                        |          |
| 6 Design Energy (Annual) Mus 1.25           | 1.25     |
| Auxiliary Consumption including             | 1.000/   |
| 7 Transformation losses 1.00%               | 1.00%    |
| Normative Plant Availability                |          |
| 8 Factor (NAPAF) %                          |          |
| Rs  |          |
| 9.1 Maintenance Spares for WC Lakh          |          |
| 9.2 Receivable for WC R. Lakh               |          |
| 9.3 Base Rate of return on equity % 14      | 14       |
| 9.4 Tax Rate % Not Applic                   |          |
| Prime lending Rate of SRI as on             |          |
| 9.5 April' 2017 % 13.80%                    | 6 12.90% |
| 10.1 Type                                   |          |
| Installed Capacity (Bo of Units x           |          |
| 10.2 MW) KW 130                             | 150      |
| 10.3 Peaking capacity during lean           |          |
| period (MW)                                 |          |
| 10.4 Type of Turbine                        |          |
| 10.5 Rated Head (M)                         |          |
| 10.6 Rated Discharge (Cumes)                |          |

Name of the Hydro Generating Station : Yingkiong Ph-II State/ Distt. Arunachal Pradesh/ Upper Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description No. (Estimated) (Projected) Installed Capacity 1 KW 200 200 2 Free Power to home state NIL NIL % Date of commercial operation Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.66 1.66 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 200 200 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Sikut/ Tuting State/ Distt. Arunachal Pradesh/ Upper Siang District

|            | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                        |                        |  |
|------------|---|------------|------------------------|------------------------|--|
| (NAF       | (NAPAF) & other normative parameters considered for Tariff                          |            |                        |                        |  |
| ~1         | & other normative para  | meters con | 1                      |                        |  |
| Sl.<br>No. | Description   | Unit       | 2019-20<br>(Estimated) | 2020-21<br>(Projected) |  |
| 1          | Installed Capacity  | KW         | 100                    | 100                    |  |
| 2          | Free Power to home state  | %<br>%     | NIL                    | NIL                    |  |
| 3          | Date of commercial operation  | 70         | NIL                    | IVIL                   |  |
| 3          | Unit – 1  |            |                        |                        |  |
|            | Unit – 2  |            |                        |                        |  |
| 4          | Type of Station   |            |                        |                        |  |
|            | a) Surface/ underground   |            |                        |                        |  |
|            | b) Purely ROR/ Pondage/ Storage   |            |                        |                        |  |
|            | c) Peaking/ non-peaking   |            |                        |                        |  |
|            | d) No of hours of peaking   |            |                        |                        |  |
|            | e) Overload capacity (MW) &   |            |                        |                        |  |
|            | period  |            |                        |                        |  |
| 5          | Type of excitation  |            |                        |                        |  |
|            | a) Rotating exciters on generator   |            |                        |                        |  |
|            | b) Static excitation  |            | 1                      |                        |  |
| 6          | Design Energy (Annual)  | Mus        | 0.83                   | 0.83                   |  |
| 7          | Auxiliary Consumption including Transformation losses                               | %          | 1.00%                  | 1.00%                  |  |
| 8          | Normative Plant Availability<br>Factor (NAPAF)                                      | %          |                        |                        |  |
| 0.1        | Maintananaa Snanaa fan W.C.   | Rs.        |                        |                        |  |
| 9.1        | Maintenance Spares for WC   | Lakh       |                        |                        |  |
| 9.2        | Receivable for WC   | R. Lakh    |                        |                        |  |
| 9.3        | Base Rate of return on equity   | %          | 14                     | 14                     |  |
| 9.4        | Tax Rate  | %          | Not Applicable         | Not Applicable         |  |
| 9.5        | Prime lending Rate of SBI as on April' 2017   | %          | 13.80%                 | 12.90%                 |  |
| 10.1       | Туре  |            |                        |                        |  |
| 10.2       | Installed Capacity (Bo of Units x MW)   | KW         | 100                    | 100                    |  |
| 10.3       | Peaking capacity during lean period (MW)  |            |                        |                        |  |
| 10.4       | Type of Turbine   |            |                        |                        |  |
|            | Rated Head (M)  |            |                        |                        |  |
| 10.6       | Rated Discharge (Cumes)   |            |                        |                        |  |

Name of the Hydro Generating Station : Selli at Geku State/ Distt. Arunachal Pradesh/ Upper Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAF | PAF)   |             |                   |                |
|------|--|-------------|-------------------|----------------|
|      | & other normative para                         | meters cor  | sidered for Tarif | f              |
| Sl.  | Decemention                                    | Unit        | 2019-20           | 2020-21        |
| No.  | Description                                    | Unit        | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                             | KW          | 500               | 500            |
| 2    | Free Power to home state                       | %           | NIL               | NIL            |
| 3    | Date of commercial operation                   |             |                   |                |
|      | Unit – 1                                       |             |                   |                |
|      | Unit – 2                                       |             |                   |                |
| 4    | Type of Station                                |             |                   |                |
|      | a) Surface/ underground                        |             |                   |                |
|      | b) Purely ROR/ Pondage/ Storage                |             |                   |                |
|      | c) Peaking/ non-peaking                        |             |                   |                |
|      | d) No of hours of peaking                      |             |                   |                |
|      | e) Overload capacity (MW) &                    |             |                   |                |
|      | period   |             |                   |                |
| 5    | Type of excitation                             |             |                   |                |
|      | a) Rotating exciters on generator              |             |                   |                |
|      | b) Static excitation                           |             |                   |                |
| 6    | Design Energy (Annual)                         | Mus         | 4.16              | 4.16           |
| 7    | Auxiliary Consumption including                | %           | 1.00%             | 1.00%          |
| ,    | Transformation losses                          | 70          | 1.0070            | 1.0070         |
| 8    | Normative Plant Availability                   | %           |                   |                |
| 0    | Factor (NAPAF)                                 | /0          |                   |                |
| 9.1  | Maintenance Spares for WC                      | Rs.<br>Lakh |                   |                |
| 9.2  | Receivable for WC                              | R. Lakh     |                   |                |
| 9.3  | Base Rate of return on equity                  | %           | 14                | 14             |
| 9.4  | Tax Rate                                       | %           | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on<br>April' 2017 | %           | 13.80%            | 12.90%         |
| 10.1 | Туре   |             |                   |                |
| 10.2 | Installed Capacity (Bo of Units x MW)          | KW          | 500               | 500            |
| 10.3 | Peaking capacity during lean period (MW)       |             |                   |                |
|      | Type of Turbine                                |             |                   |                |
|      | Rated Head (M)                                 |             |                   |                |
| 10.6 | Rated Discharge (Cumes)                        |             |                   |                |

Name of the Hydro Generating Station : Sirnyuk State/ Distt. Arunachal Pradesh/ Upper Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW 2000 2000 2 Free Power to home state NIL NIL % Date of commercial operation Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 16.64 16.64 Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 2000 2000 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station: Kopu at Tuting State/ Dist. Arunachal Pradesh/ Upper Siang District

Details of Cod. Type of Hydro Stations, Normative Apple

| Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |  |         |                |                |  |  |
|---|--|---------|----------------|----------------|--|--|
| (NAF  | ,  |         |                |                |  |  |
|   | & other normative parameters considered for Tariff |         |                |                |  |  |
| Sl.   | Description  | Unit    | 2019-20        | 2020-21        |  |  |
| No.   | Description  | Om      | (Estimated)    | (Projected)    |  |  |
| 1   | Installed Capacity                                 | KW      | 250            | 250            |  |  |
| 2   | Free Power to home state                           | %       | NIL            | NIL            |  |  |
| 3   | Date of commercial operation                       |         |                |                |  |  |
|   | Unit – 1   |         |                |                |  |  |
| 4   | Type of Station                                    |         |                |                |  |  |
|   | a) Surface/ underground                            |         |                |                |  |  |
|   | b) Purely ROR/ Pondage/ Storage                    |         |                |                |  |  |
|   | c) Peaking/ non-peaking                            |         |                |                |  |  |
|   | d) No of hours of peaking                          |         |                |                |  |  |
|   | e) Overload capacity (MW) &                        |         |                |                |  |  |
|   | period   |         |                |                |  |  |
| 5   | Type of excitation                                 |         |                |                |  |  |
|   | a) Rotating exciters on generator                  |         |                |                |  |  |
|   | b) Static excitation                               |         |                |                |  |  |
| 6   | Design Energy (Annual)                             | Mus     | 2.08           | 2.08           |  |  |
| 7   | Auxiliary Consumption including                    | %       | 1.00%          | 1.00%          |  |  |
| /   | Transformation losses                              | 70      | 1.0070         | 1.0070         |  |  |
| 8   | Normative Plant Availability                       | %       |                |                |  |  |
| 0   | Factor (NAPAF)                                     | 70      |                |                |  |  |
| 9.1   | Maintenance Spares for WC                          | Rs.     |                |                |  |  |
| 9.1   | Maintenance Spares for WC                          | Lakh    |                |                |  |  |
| 9.2   | Receivable for WC                                  | R. Lakh |                |                |  |  |
| 9.3   | Base Rate of return on equity                      | %       | 14             | 14             |  |  |
| 9.4   | Tax Rate   | %       | Not Applicable | Not Applicable |  |  |
| 9.5   | Prime lending Rate of SBI as on April' 2017        | %       | 13.80%         | 12.90%         |  |  |
| 10.1  | Туре   |         |                |                |  |  |
|   | Installed Capacity (Bo of Units x                  |         |                |                |  |  |
| 10.2  | MW)  | KW      | 250            | 250            |  |  |
|   | Peaking capacity during lean                       |         |                |                |  |  |
| 10.3  | period (MW)  |         |                |                |  |  |
| 10.4  | Type of Turbine                                    |         |                |                |  |  |
| -   | Rated Head (M)                                     |         |                |                |  |  |
|   | Rated Discharge (Cumes)                            |         |                |                |  |  |
| 10.0  | Raica Discharge (Cumes)                            |         |                |                |  |  |

Name of the Hydro Generating Station : Silingri State/ Distt. Arunachal Pradesh/ Upper Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff 2020-21 Sl. 2019-20 Description Unit (Estimated) (Projected) No. Installed Capacity KW 50 50 Free Power to home state % NIL NIL 3 Date of commercial operation Unit - 1Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation 0.42 0.42 6 Design Energy (Annual) Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 % Not Applicable Not Applicable 9.4 Tax Rate Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 50 50 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Singa State/ Distt. Arunachal Pradesh/ Upper Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor

| (NAI       | PAF)  | 1 (01111441) | 7 11111441 1 14114, 7 1 | variatinity i actor    |
|------------|---|--------------|-------------------------|------------------------|
|            | & other normative para                                | meters cor   | sidered for Tarif       | f                      |
| Sl.<br>No. | Description   | Unit         | 2019-20<br>(Estimated)  | 2020-21<br>(Projected) |
| 1          | Installed Capacity                                    | KW           | 30                      | 30                     |
| 2          | Free Power to home state                              | %            | NIL                     | NIL                    |
| 3          | Date of commercial operation                          |              |                         |                        |
|            | Unit – 1  |              |                         |                        |
| 4          | Type of Station                                       |              |                         |                        |
|            | a) Surface/ underground                               |              |                         |                        |
|            | b) Purely ROR/ Pondage/ Storage                       |              |                         |                        |
|            | c) Peaking/ non-peaking                               |              |                         |                        |
|            | d) No of hours of peaking                             |              |                         |                        |
|            | e) Overload capacity (MW) &                           |              |                         |                        |
|            | period  |              |                         |                        |
| 5          | Type of excitation                                    |              |                         |                        |
|            | a) Rotating exciters on generator                     |              |                         |                        |
|            | b) Static excitation                                  |              |                         |                        |
| 6          | Design Energy (Annual)                                | Mus          | 0.25                    | 0.25                   |
| 7          | Auxiliary Consumption including Transformation losses | %            | 1.00%                   | 1.00%                  |
| 8          | Normative Plant Availability Factor (NAPAF)           | %            |                         |                        |
| 9.1        | Maintenance Spares for WC                             | Rs.<br>Lakh  |                         |                        |
| 9.2        | Receivable for WC                                     | R. Lakh      |                         |                        |
| 9.3        | Base Rate of return on equity                         | %            | 14                      | 14                     |
| 9.4        | Tax Rate  | %            | Not Applicable          | Not Applicable         |
| 9.5        | Prime lending Rate of SBI as on April' 2017           | %            | 13.80%                  | 12.90%                 |
| 10.1       | Туре  |              |                         |                        |
| 10.2       | Installed Capacity (Bo of Units x MW)                 | KW           | 30                      | 30                     |
| 10.3       | Peaking capacity during lean period (MW)              |              |                         |                        |
|            | Type of Turbine                                       |              |                         |                        |
| 10.5       | Rated Head (M)  |              |                         |                        |
| 10.6       | Rated Discharge (Cumes)                               |              |                         |                        |

### Name of the Hydro Generating Station : Ngaming State/ Distt. Arunachal Pradesh/ Upper Siang District

| Detai | ils of Cod, Type of Hydro Stations,         | Normative  | Annual Plant, A | vailability Factor |
|-------|---|------------|-----------------|--------------------|
| (NAF  |   |            |                 |                    |
|       | & other normative para                      | meters con |                 |                    |
| Sl.   | Description                                 | Unit       | 2019-20         | 2020-21            |
| No.   | •   |            | (Estimated)     | (Projected)        |
|       | Installed Capacity                          | KW         | 50              | 50                 |
|       | Free Power to home state                    | %          | NIL             | NIL                |
| 3     | Date of commercial operation                |            |                 |                    |
|       | Unit – 1                                    |            |                 |                    |
| 4     | Type of Station                             |            |                 |                    |
|       | a) Surface/ underground                     |            |                 |                    |
|       | b) Purely ROR/ Pondage/ Storage             |            |                 |                    |
|       | c) Peaking/ non-peaking                     |            |                 |                    |
|       | d) No of hours of peaking                   |            |                 |                    |
|       | e) Overload capacity (MW) &                 |            |                 |                    |
|       | period                                      |            |                 |                    |
| 5     | Type of excitation                          |            |                 |                    |
|       | a) Rotating exciters on generator           |            |                 |                    |
|       | b) Static excitation                        |            |                 |                    |
| 6     | Design Energy (Annual)                      | Mus        | 0.42            | 0.42               |
| 7     | Auxiliary Consumption including             | %          | 1.00%           | 1.00%              |
| /     | Transformation losses                       | 70         | 1.00%           | 1.00%              |
| 8     | Normative Plant Availability                | %          |                 |                    |
| 0     | Factor (NAPAF)                              | 70         |                 |                    |
| 9.1   | Maintenance Spares for WC                   | Rs.        |                 |                    |
| 9.1   | Maintenance Spares for WC                   | Lakh       |                 |                    |
|       | Receivable for WC                           | R. Lakh    |                 |                    |
| 9.3   | Base Rate of return on equity               | %          | 14              | 14                 |
|       | Tax Rate                                    | %          | Not Applicable  | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%          | 12.90%             |
| 10.1  | Туре  |            |                 |                    |
|       | Installed Capacity (Bo of Units x MW)       | KW         | 50              | 50                 |
| 10.3  | Peaking capacity during lean period (MW)    |            |                 |                    |
| 10.4  | Type of Turbine                             |            |                 |                    |
| 10.5  | Rated Head (M)                              |            |                 |                    |
| 10.6  | Rated Discharge (Cumes)                     |            |                 |                    |

Name of the Hydro Generating Station : Sika

State/ Distt. Arunachal Pradesh/ Upper Siang District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |             |                |                |  |
|-------|---|-------------|----------------|----------------|--|
| (NAF  | (NAPAF)   |             |                |                |  |
|       | & other normative para  | meters con  |                |                |  |
| Sl.   | Description   | Unit        | 2019-20        | 2020-21        |  |
| No.   | Description   | Ollit       | (Estimated)    | (Projected)    |  |
| 1     | Installed Capacity  | KW          | 15             | 15             |  |
| 2     | Free Power to home state  | %           | NIL            | NIL            |  |
| 3     | Date of commercial operation  |             |                |                |  |
|       | Unit – 1  |             |                |                |  |
| 4     | Type of Station   |             |                |                |  |
|       | a) Surface/ underground   |             |                |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |             |                |                |  |
|       | c) Peaking/ non-peaking   |             |                |                |  |
|       | d) No of hours of peaking   |             |                |                |  |
|       | e) Overload capacity (MW) &   |             |                |                |  |
|       | period  |             |                |                |  |
| 5     | Type of excitation  |             |                |                |  |
|       | a) Rotating exciters on generator   |             |                |                |  |
|       | b) Static excitation  |             |                |                |  |
| 6     | Design Energy (Annual)  | Mus         | 0.12           | 0.12           |  |
| 7     | Auxiliary Consumption including   | %           | 1.00%          | 1.00%          |  |
| /     | Transformation losses   | 70          | 1.00%          | 1.00%          |  |
| 8     | Normative Plant Availability  | %           |                |                |  |
| 0     | Factor (NAPAF)  | 70          |                |                |  |
| 9.1   | Maintenance Spares for WC   | Rs.<br>Lakh |                |                |  |
| 9.2   | Receivable for WC   | R. Lakh     |                |                |  |
| 9.3   | Base Rate of return on equity   | %           | 14             | 14             |  |
| 9.4   | Tax Rate  | %           | Not Applicable | Not Applicable |  |
| 9.5   | Prime lending Rate of SBI as on April' 2017   | %           | 13.80%         | 12.90%         |  |
| 10.1  | Туре  |             |                |                |  |
| 10.2  | Installed Capacity (Bo of Units x MW)   | KW          | 15             | 15             |  |
| 10.3  | Peaking capacity during lean period (MW)  |             |                |                |  |
|       | Type of Turbine   |             |                |                |  |
|       | Rated Head (M)  |             |                |                |  |
| 10.6  | Rated Discharge (Cumes)   |             |                |                |  |

Name of the Hydro Generating Station : Mayung State/ Distt. Arunachal Pradesh/ Upper Siang District

| Details  | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |             |                |                |  |  |  |
|--|---|-------------|----------------|----------------|--|--|--|
| (NAPA  |   |             |                |                |  |  |  |
| & other normative parameters considered for Tariff |   |             |                |                |  |  |  |
| Sl.  | Description   | Unit        | 2019-20        | 2020-21        |  |  |  |
| No.  |   |             | (Estimated)    | (Projected)    |  |  |  |
|  | Installed Capacity  | KW          | 5              | 5              |  |  |  |
|  | Free Power to home state  | %           | NIL            | NIL            |  |  |  |
| 3 I  | Date of commercial operation  |             |                |                |  |  |  |
| $\sqcup$   | Unit – 1  |             |                |                |  |  |  |
|  | Type of Station   |             |                |                |  |  |  |
| а  | a) Surface/ underground   |             |                |                |  |  |  |
| l l  | b) Purely ROR/ Pondage/ Storage   |             |                |                |  |  |  |
| C  | c) Peaking/ non-peaking   |             |                |                |  |  |  |
| Ċ  | d) No of hours of peaking   |             |                |                |  |  |  |
| e  | e) Overload capacity (MW) &   |             |                |                |  |  |  |
| F  | period  |             |                |                |  |  |  |
| 5 7  | Type of excitation  |             |                |                |  |  |  |
| а  | a) Rotating exciters on generator   |             |                |                |  |  |  |
| ŀ  | b) Static excitation  |             |                |                |  |  |  |
| 6 I  | Design Energy (Annual)  | Mus         | 0.04           | 0.04           |  |  |  |
| 7  | Auxiliary Consumption including   | %           | 1.00%          | 1.00%          |  |  |  |
| / 7  | Transformation losses   |             |                |                |  |  |  |
| 8  | Normative Plant Availability  | %           |                |                |  |  |  |
| o I  | Factor (NAPAF)  |             |                |                |  |  |  |
| 9.1 N  | Maintenance Spares for WC   | Rs.<br>Lakh |                |                |  |  |  |
| 9.2 I  | Receivable for WC   | R. Lakh     |                |                |  |  |  |
| 9.3 I  | Base Rate of return on equity   | %           | 14             | 14             |  |  |  |
|  | Tax Rate  | %           | Not Applicable | Not Applicable |  |  |  |
| 1 4 7 1  | Prime lending Rate of SBI as on<br>April' 2017                                      | %           | 13.80%         | 12.90%         |  |  |  |
|  | Гуре  |             |                |                |  |  |  |
| 10.2 I   | Installed Capacity (Bo of Units x MW)   | KW          | 5              | 5              |  |  |  |
| 10.3   | Peaking capacity during lean period (MW)  |             |                |                |  |  |  |
| 10.4   | Type of Turbine   |             |                |                |  |  |  |
|  | Rated Head (M)  |             |                |                |  |  |  |
| 40 6 7   | Rated Discharge (Cumes)   |             |                |                |  |  |  |

Name of the Hydro Generating Station : Gosang State/ Distt. Arunachal Pradesh/ Upper Siang District

| Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |   |         |                |                |  |  |  |
|---|---|---------|----------------|----------------|--|--|--|
| (NAPAF)   |   |         |                |                |  |  |  |
| & other normative parameters considered for Tariff                                  |   |         |                |                |  |  |  |
| Sl.   | Description                                 | Unit    | 2019-20        | 2020-21        |  |  |  |
| No.   |   |         | (Estimated)    | (Projected)    |  |  |  |
| 1   | Installed Capacity                          | KW      | 500            | 500            |  |  |  |
| 2   | Free Power to home state                    | %       | NIL            | NIL            |  |  |  |
| 3   | Date of commercial operation                |         |                |                |  |  |  |
|   | Unit – 1                                    |         |                |                |  |  |  |
|   | Unit – 2                                    |         |                |                |  |  |  |
| 4   | Type of Station                             |         |                |                |  |  |  |
|   | a) Surface/ underground                     |         |                |                |  |  |  |
|   | b) Purely ROR/ Pondage/ Storage             |         |                |                |  |  |  |
|   | c) Peaking/ non-peaking                     |         |                |                |  |  |  |
|   | d) No of hours of peaking                   |         |                |                |  |  |  |
|   | e) Overload capacity (MW) &                 |         |                |                |  |  |  |
|   | period                                      |         |                |                |  |  |  |
| 5   | Type of excitation                          |         |                |                |  |  |  |
|   | a) Rotating exciters on generator           |         |                |                |  |  |  |
|   | b) Static excitation                        |         |                |                |  |  |  |
| 6   | Design Energy (Annual)                      | Mus     | 4.16           | 4.16           |  |  |  |
| 7   | Auxiliary Consumption including             | %       | 1.00%          | 1.00%          |  |  |  |
| /   | Transformation losses                       |         |                |                |  |  |  |
| 8   | Normative Plant Availability                | %       |                |                |  |  |  |
| 0   | Factor (NAPAF)                              |         |                |                |  |  |  |
| 0.1   | Maintananaa Snaraa far WC                   | Rs.     |                |                |  |  |  |
| 9.1   | Maintenance Spares for WC                   | Lakh    |                |                |  |  |  |
| 9.2   | Receivable for WC                           | R. Lakh |                |                |  |  |  |
| 9.3   | Base Rate of return on equity               | %       | 14             | 14             |  |  |  |
| 9.4   | Tax Rate                                    | %       | Not Applicable | Not Applicable |  |  |  |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %       | 13.80%         | 12.90%         |  |  |  |
| 10.1  | Туре  |         |                |                |  |  |  |
|   | Installed Capacity (Ro of Units v           |         |                |                |  |  |  |
| 10.2  | MW)   | KW      | 500            | 500            |  |  |  |
| 10.3  | Peaking capacity during lean                |         |                |                |  |  |  |
|   | period (MW)                                 |         |                |                |  |  |  |
| 10.4  | Type of Turbine                             |         |                |                |  |  |  |
|   | Rated Head (M)                              |         |                |                |  |  |  |
|   | Rated Discharge (Cumes)                     |         |                |                |  |  |  |
|   | <i>6</i> ( <i>)</i>                         |         | 1              |                |  |  |  |

Name of the Hydro Generating Station : Kote MHS State/ Distt. Arunachal Pradesh/ Upper Siang District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |         |                |                |  |
|-------|---|---------|----------------|----------------|--|
| (NAF  | (NAPAF)   |         |                |                |  |
|       | & other normative parameters considered for Tariff                                  |         |                |                |  |
| Sl.   | Description   | Unit    | 2019-20        | 2020-21        |  |
| No.   | Description   |         | (Estimated)    | (Projected)    |  |
| 1     | Installed Capacity  | KW      | 50             | 50             |  |
| 2     | Free Power to home state  | %       | NIL            | NIL            |  |
| 3     | Date of commercial operation  |         |                |                |  |
|       | Unit – 1  |         |                |                |  |
| 4     | Type of Station   |         |                |                |  |
|       | a) Surface/ underground   |         |                |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |         |                |                |  |
|       | c) Peaking/ non-peaking   |         |                |                |  |
|       | d) No of hours of peaking   |         |                |                |  |
|       | e) Overload capacity (MW) &   |         |                |                |  |
|       | period  |         |                |                |  |
| 5     | Type of excitation  |         |                |                |  |
|       | a) Rotating exciters on generator   |         |                |                |  |
|       | b) Static excitation  |         |                |                |  |
| 6     | Design Energy (Annual)  | Mus     | 0.42           | 0.42           |  |
| 7     | Auxiliary Consumption including   | %       | 1.00%          | 1.00%          |  |
| /     | Transformation losses   | 70      | 1.0070         | 1.0070         |  |
| 8     | Normative Plant Availability  | %       |                |                |  |
| 0     | Factor (NAPAF)  | 70      |                |                |  |
| 9.1   | Maintenance Spares for WC   | Rs.     |                |                |  |
|       | -   | Lakh    |                |                |  |
|       | Receivable for WC   | R. Lakh |                |                |  |
|       | Base Rate of return on equity   | %       | 14             | 14             |  |
| 9.4   | Tax Rate  | %       | Not Applicable | Not Applicable |  |
| 9.5   | Prime lending Rate of SBI as on<br>April' 2017                                      | %       | 13.80%         | 12.90%         |  |
| 10.1  | Туре  |         |                |                |  |
| 10.2  | Installed Capacity (Bo of Units x   | KW      | 50             | 50             |  |
| 10.2  | MW)   | IX VV   | 30             | 30             |  |
| 10.3  | Peaking capacity during lean  |         |                |                |  |
| 10.3  | period (MW)   |         |                |                |  |
| 10.4  | Type of Turbine   |         |                |                |  |
| 10.5  | Rated Head (M)  |         |                |                |  |
| 10.6  | Rated Discharge (Cumes)   |         |                |                |  |

Name of the Hydro Generating Station : Sijen MHS at Adi pasi State/ Distt. Arunachal Pradesh/ Upper Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor

| (NAI       | PAF)  |             |                        |                        |
|------------|---|-------------|------------------------|------------------------|
|            | & other normative para                                | meters cor  | nsidered for Tarif     | f                      |
| Sl.<br>No. | Description   | Unit        | 2019-20<br>(Estimated) | 2020-21<br>(Projected) |
| 1          | Installed Capacity                                    | KW          | 50                     | 50                     |
| 2          | Free Power to home state                              | %           | NIL                    | NIL                    |
| 3          | Date of commercial operation                          |             |                        |                        |
|            | Unit – 1  |             |                        |                        |
| 4          | Type of Station                                       |             |                        |                        |
|            | a) Surface/ underground                               |             |                        |                        |
|            | b) Purely ROR/ Pondage/ Storage                       |             |                        |                        |
|            | c) Peaking/ non-peaking                               |             |                        |                        |
|            | d) No of hours of peaking                             |             |                        |                        |
|            | e) Overload capacity (MW) &                           |             |                        |                        |
|            | period  |             |                        |                        |
| 5          | Type of excitation                                    |             |                        |                        |
|            | a) Rotating exciters on generator                     |             |                        |                        |
|            | b) Static excitation                                  |             |                        |                        |
| 6          | Design Energy (Annual)                                | Mus         | 0.42                   | 0.42                   |
| 7          | Auxiliary Consumption including Transformation losses | %           | 1.00%                  | 1.00%                  |
| 8          | Normative Plant Availability<br>Factor (NAPAF)        | %           |                        |                        |
| 9.1        | Maintenance Spares for WC                             | Rs.<br>Lakh |                        |                        |
| 9.2        | Receivable for WC                                     | R. Lakh     |                        |                        |
| 9.3        | Base Rate of return on equity                         | %           | 14                     | 14                     |
| 9.4        | Tax Rate  | %           | Not Applicable         | Not Applicable         |
| 9.5        | Prime lending Rate of SBI as on April' 2017           | %           | 13.80%                 | 12.90%                 |
| 10.1       | Туре  |             |                        |                        |
| 10.2       | Installed Capacity (Bo of Units x MW)                 | KW          | 50                     | 50                     |
| 10.3       | Peaking capacity during lean period (MW)              |             |                        |                        |
| 10.4       | Type of Turbine                                       |             |                        |                        |
| 10.5       | Rated Head (M)  |             |                        |                        |
| 10.6       | Rated Discharge (Cumes)                               |             |                        |                        |

## Name of the Hydro Generating Station : Pyabung MHS State/ Distt. Arunachal Pradesh/ Upper Siang District

|      | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |             |                |                |
|------|---|-------------|----------------|----------------|
| (NAF | (NAPAF)   |             |                |                |
|      | & other normative para  | meters con  |                |                |
| Sl.  | Description   | Unit        | 2019-20        | 2020-21        |
| No.  | •   |             | (Estimated)    | (Projected)    |
| 1    | Installed Capacity  | KW          | 25             | 25             |
| 2    | Free Power to home state  | %           | NIL            | NIL            |
| 3    | Date of commercial operation  |             |                |                |
|      | Unit – 1  |             |                |                |
| 4    | Type of Station   |             |                |                |
|      | a) Surface/ underground   |             |                |                |
|      | b) Purely ROR/ Pondage/ Storage   |             |                |                |
|      | c) Peaking/ non-peaking   |             |                |                |
|      | d) No of hours of peaking   |             |                |                |
|      | e) Overload capacity (MW) &   |             |                |                |
|      | period  |             |                |                |
| 5    | Type of excitation  |             |                |                |
|      | a) Rotating exciters on generator   |             |                |                |
|      | b) Static excitation  |             |                |                |
| 6    | Design Energy (Annual)  | Mus         | 0.21           | 0.21           |
| 7    | Auxiliary Consumption including   | %           | 1.00%          | 1.00%          |
| /    | Transformation losses   | 70          | 1.0070         | 1.0070         |
| 8    | Normative Plant Availability  | %           |                |                |
| 0    | Factor (NAPAF)  | 70          |                |                |
| 9.1  | Maintenance Spares for WC   | Rs.<br>Lakh |                |                |
| 9.2  | Receivable for WC   | R. Lakh     |                |                |
| 9.3  | Base Rate of return on equity   | %           | 14             | 14             |
| 9.4  | Tax Rate  | %           | Not Applicable | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on April' 2017   | %           | 13.80%         | 12.90%         |
| 10.1 | Туре  |             |                |                |
|      | Installed Capacity (Bo of Units x   | VW/         | 25             | 25             |
| 10.2 | MW)   | KW          | 25             | 25             |
| 10.3 | Peaking capacity during lean  |             |                |                |
|      | period (MW)   |             |                |                |
| 10.4 | Type of Turbine   |             |                |                |
|      | Rated Head (M)  |             |                |                |
| 10.6 | Rated Discharge (Cumes)   |             |                |                |

Name of the Hydro Generating Station : Yembung State/ Distt. Arunachal Pradesh/ East Siang District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                   |                |  |
|-------|---|------------|-------------------|----------------|--|
|       | (NAPAF)   |            |                   |                |  |
|       | & other normative para  | meters con | sidered for Tarif | f              |  |
| Sl.   | Б:  | TT 1.      | 2019-20           | 2020-21        |  |
| No.   | Description   | Unit       | (Estimated)       | (Projected)    |  |
| 1     | Installed Capacity  | KW         | 2000              | 2000           |  |
| 2     | Free Power to home state  | %          | NIL               | NIL            |  |
| 3     | Date of commercial operation  |            |                   |                |  |
|       | Unit – 1  |            |                   |                |  |
|       | Unit – 2  |            |                   |                |  |
|       | Unit – 3  |            |                   |                |  |
|       | Unit – 4  |            |                   |                |  |
| 4     | Type of Station   |            |                   |                |  |
|       | a) Surface/ underground   |            |                   |                |  |
|       |   |            |                   |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |            |                   |                |  |
|       | c) Peaking/ non-peaking   |            |                   |                |  |
|       | d) No of hours of peaking   |            |                   |                |  |
|       | e) Overload capacity (MW) &   |            |                   |                |  |
|       | period  |            |                   |                |  |
| 5     | Type of excitation  |            |                   |                |  |
|       | a) Rotating exciters on generator   |            |                   |                |  |
|       | b) Static excitation  |            |                   |                |  |
| 6     | Design Energy (Annual)  | Mus        | 16.64             | 16.64          |  |
| 7     | Auxiliary Consumption including   | %          | 1.00%             | 1.00%          |  |
| /     | Transformation losses   | /0         | 1.0070            | 1.0070         |  |
| 8     | Normative Plant Availability  | %          |                   |                |  |
| 0     | Factor (NAPAF)  | 70         |                   |                |  |
| 9.1   | Maintenance Spares for WC   | Rs.        |                   |                |  |
| 9.1   | Maintenance Spares for WC   | Lakh       |                   |                |  |
| 9.2   | Receivable for WC   | R. Lakh    |                   |                |  |
| 9.3   | Base Rate of return on equity   | %          | 14                | 14             |  |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable |  |
| 9.5   | Prime lending Rate of SBI as on   | %          | 13.80%            | 12.90%         |  |
|       | April' 2017   | 70         | 13.0070           | 12.7070        |  |
|       | Туре  |            |                   |                |  |
| 10.2  | Installed Capacity (Bo of Units x   | KW         | 2000              | 2000           |  |
| 10.2  | MW)   | 17. 11     | 2000              | 2000           |  |
| 10.3  | Peaking capacity during lean  |            |                   |                |  |
| 10.5  | period (MW)   |            |                   |                |  |
|       | Type of Turbine   |            |                   |                |  |
|       | Rated Head (M)  |            |                   |                |  |
| 10.6  | Rated Discharge (Cumes)   |            |                   |                |  |

Name of the Hydro Generating Station : Subbung State/ Distt. Arunachal Pradesh/ Siang District

| Detai | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAF  | ,   |            |                   |                    |
|       | & other normative para                                | meters con | sidered for Tarif | f                  |
| Sl.   | Description   | Unit       | 2019-20           | 2020-21            |
| No.   | T + 11 1 C  | 77337      | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                                    | KW         | 3000              | 3000               |
| 2     | Free Power to home state                              | %          | NIL               | NIL                |
| 3     | Date of commercial operation                          |            |                   |                    |
|       | Unit – 1  |            |                   |                    |
|       | Unit – 2  |            | 1                 |                    |
| 4     | Type of Station                                       |            |                   |                    |
|       | a) Surface/ underground                               |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage                       |            |                   |                    |
|       | c) Peaking/ non-peaking                               |            |                   |                    |
|       | d) No of hours of peaking                             |            |                   |                    |
|       | e) Overload capacity (MW) &                           |            |                   |                    |
|       | period  |            |                   |                    |
| 5     | Type of excitation                                    |            |                   |                    |
|       | a) Rotating exciters on generator                     |            |                   |                    |
|       | b) Static excitation                                  |            |                   |                    |
| 6     | Design Energy (Annual)                                | Mus        | 24.97             | 24.97              |
| 7     | Auxiliary Consumption including Transformation losses | %          | 1.00%             | 1.00%              |
| 8     | Normative Plant Availability<br>Factor (NAPAF)        | %          |                   |                    |
| 0.1   | ·   | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                   |                    |
| 9.2   | Receivable for WC                                     | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity                         | %          | 14                | 14                 |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%            | 12.90%             |
| 10.1  | Туре  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)                 | KW         | 3000              | 3000               |
| 10.3  | Peaking capacity during lean period (MW)              |            |                   |                    |
|       | Type of Turbine                                       |            |                   |                    |
|       | Rated Head (M)  |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                               | -          |                   |                    |

Name of the Hydro Generating Station : Pasighat State/ Distt. Arunachal Pradesh/ East Siang District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                   |                |  |
|-------|---|------------|-------------------|----------------|--|
| (NAI  | (NAPAF)   |            |                   |                |  |
|       | & other normative para  | meters cor | sidered for Tarif | f              |  |
| Sl.   | Description   | Unit       | 2019-20           | 2020-21        |  |
| No.   | Description   | Omi        | (Estimated)       | (Projected)    |  |
| 1     | Installed Capacity  | KW         | 200               | 200            |  |
| 2     | Free Power to home state  | %          | NIL               | NIL            |  |
| 3     | Date of commercial operation  |            |                   |                |  |
|       | Unit – 1  |            |                   |                |  |
|       | Unit – 2  |            |                   |                |  |
| 4     | Type of Station   |            |                   |                |  |
|       | a) Surface/ underground   |            |                   |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |            |                   |                |  |
|       | c) Peaking/ non-peaking   |            |                   |                |  |
|       | d) No of hours of peaking   |            |                   |                |  |
|       | e) Overload capacity (MW) &   |            |                   |                |  |
|       | period  |            |                   |                |  |
| 5     | Type of excitation  |            |                   |                |  |
|       | a) Rotating exciters on generator   |            |                   |                |  |
|       | b) Static excitation  |            |                   |                |  |
| 6     | Design Energy (Annual)  | Mus        | 1.66              | 1.66           |  |
| 7     | Auxiliary Consumption including Transformation losses                               | %          | 1.00%             | 1.00%          |  |
| 8     | Normative Plant Availability<br>Factor (NAPAF)                                      | %          |                   |                |  |
| 0.1   | M. C. C. W.C.   | Rs.        |                   |                |  |
| 9.1   | Maintenance Spares for WC   | Lakh       |                   |                |  |
| 9.2   | Receivable for WC   | R. Lakh    |                   |                |  |
| 9.3   | Base Rate of return on equity   | %          | 14                | 14             |  |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable |  |
| 9.5   | Prime lending Rate of SBI as on April' 2017   | %          | 13.80%            | 12.90%         |  |
| 10.1  | Type  |            |                   |                |  |
| 10.2  | Installed Capacity (Bo of Units x MW)   | KW         | 200               | 200            |  |
| 10.3  | Peaking capacity during lean period (MW)  |            |                   |                |  |
|       | Type of Turbine   |            |                   |                |  |
|       | Rated Head (M)  |            |                   |                |  |
| 10.6  | Rated Discharge (Cumes)   |            |                   |                |  |

Name of the Hydro Generating Station : Silli State/ Distr. Arunachal Pradesh/ East Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAI | PAF)  |             |                   |                |
|------|---|-------------|-------------------|----------------|
|      | & other normative para                                | meters cor  | sidered for Tarif | f              |
| Sl.  | D   | TT '4       | 2019-20           | 2020-21        |
| No.  | Description   | Unit        | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                                    | KW          | 30                | 30             |
| 2    | Free Power to home state                              | %           | NIL               | NIL            |
| 3    | Date of commercial operation                          |             |                   |                |
|      | Unit – 1  |             |                   |                |
| 4    | Type of Station                                       |             |                   |                |
|      | a) Surface/ underground                               |             |                   |                |
|      | b) Purely ROR/ Pondage/ Storage                       |             |                   |                |
|      | c) Peaking/ non-peaking                               |             |                   |                |
|      | d) No of hours of peaking                             |             |                   |                |
|      | e) Overload capacity (MW) &                           |             |                   |                |
|      | period  |             |                   |                |
| 5    | Type of excitation                                    |             |                   |                |
|      | a) Rotating exciters on generator                     |             |                   |                |
|      | b) Static excitation                                  |             | 1                 |                |
| 6    | Design Energy (Annual)                                | Mus         | 0.25              | 0.25           |
| 7    | Auxiliary Consumption including Transformation losses | %           | 1.00%             | 1.00%          |
| 8    | Normative Plant Availability<br>Factor (NAPAF)        | %           |                   |                |
| 9.1  | Maintenance Spares for WC                             | Rs.<br>Lakh |                   |                |
| 9.2  | Receivable for WC                                     | R. Lakh     |                   |                |
| 9.3  | Base Rate of return on equity                         | %           | 14                | 14             |
| 9.4  | Tax Rate  | %           | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on April' 2017           | %           | 13.80%            | 12.90%         |
| 10.1 | Туре  |             |                   |                |
| 10.2 | Installed Capacity (Bo of Units x MW)                 | KW          | 50                | 50             |
| 10.3 | Peaking capacity during lean period (MW)              |             |                   |                |
| 10.4 | Type of Turbine                                       |             |                   |                |
|      | Rated Head (M)  |             |                   |                |
| 10.6 | Rated Discharge (Cumes)                               |             |                   |                |

Name of the Hydro Generating Station : Rina State/ Distt. Arunachal Pradesh/ East Siang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW 2000 2000 NIL NIL Free Power to home state % Date of commercial operation Unit - 1 Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation Design Energy (Annual) Mus 16.64 16.64 Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on % 12.90% 13.80% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 2000 2000 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station: Deopani Ph-I

State/ Distt. Arunachal Pradesh/ Lower Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor

| Detai | ils of Cod, Type of Hydro Stations, | Normative  | e Annual Plant, A | vailability Factor |
|-------|-------------------------------------|------------|-------------------|--------------------|
| (NAI  | PAF)                                |            |                   |                    |
|       | & other normative para              | meters cor | sidered for Tarif | f                  |
| Sl.   | Description                         | T T :4     | 2019-20           | 2020-21            |
| No.   | Description                         | Unit       | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                  | KW         | 750               | 750                |
| 2     | Free Power to home state            | %          | NIL               | NIL                |
| 3     | Date of commercial operation        |            |                   |                    |
|       | Unit – 1                            |            |                   |                    |
|       | Unit – 2                            |            |                   |                    |
|       | Unit – 3                            |            |                   |                    |
| 4     | Type of Station                     |            |                   |                    |
|       | a) Surface/ underground             |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage     |            |                   |                    |
|       | c) Peaking/ non-peaking             |            |                   |                    |
|       | d) No of hours of peaking           |            |                   |                    |
|       | e) Overload capacity (MW) &         |            |                   |                    |
|       | period                              |            |                   |                    |
| 5     | Type of excitation                  |            |                   |                    |
|       | a) Rotating exciters on generator   |            |                   |                    |
|       | b) Static excitation                |            | 1                 |                    |
| 6     | Design Energy (Annual)              | Mus        | 6.24              | 6.24               |
| -     | Auxiliary Consumption including     | 0./        |                   |                    |
| 7     | Transformation losses               | %          | 1.00%             | 1.00%              |
|       | Normative Plant Availability        | 0./        |                   |                    |
| 8     | Factor (NAPAF)                      | %          |                   |                    |
| 0.1   | , ,                                 | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC           | Lakh       |                   |                    |
| 9.2   | Receivable for WC                   | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity       | %          | 14                | 14                 |
| 9.4   | Tax Rate                            | %          |                   | Not Applicable     |
| 0.5   | Prime lending Rate of SBI as on     |            |                   |                    |
| 9.5   | April' 2017                         | %          | 13.80%            | 12.90%             |
| 10.1  | Туре                                |            |                   |                    |
|       | Installed Capacity (Bo of Units x   | IZW.       | 750               | 750                |
| 10.2  | MW)                                 | KW         | 750               | 750                |
| 10.2  | Peaking capacity during lean        |            |                   |                    |
| 10.3  | period (MW)                         |            |                   |                    |
| 10.4  | Type of Turbine                     |            |                   |                    |
|       | Rated Head (M)                      |            |                   |                    |
|       | Rated Discharge (Cumes)             |            |                   |                    |
| ,,,,  | <u>B</u> - ( <del></del> )          |            |                   |                    |

Name of the Hydro Generating Station : Deopani Ph-II State/ Distr. Arunachal Pradesh/ Lower Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit No. (Estimated) (Projected) Installed Capacity 750 KW 750 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit – 2 Unit - 34 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 6.24 6.24 Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 14 % 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 750 750 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine

10.5 Rated Head (M)

10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Abhapani

State/ Distt. Arunachal Pradesh/ Lower Dibang Valley District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                   |                |  |
|-------|---|------------|-------------------|----------------|--|
| (NAF  | (NAPAF)   |            |                   |                |  |
|       | & other normative para  | meters cor | sidered for Tarif | f              |  |
| Sl.   | Description   | T T :4     | 2019-20           | 2020-21        |  |
| No.   | Description   | Unit       | (Estimated)       | (Projected)    |  |
| 1     | Installed Capacity  | KW         | 450               | 450            |  |
| 2     | Free Power to home state  | %          | NIL               | NIL            |  |
| 3     | Date of commercial operation  |            |                   |                |  |
|       | Unit – 1  |            |                   |                |  |
|       | Unit – 2  |            |                   |                |  |
|       | Unit – 3  |            |                   |                |  |
| 4     | Type of Station   |            |                   |                |  |
|       | a) Surface/ underground   |            |                   |                |  |
|       | -   |            |                   |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |            |                   |                |  |
|       | c) Peaking/ non-peaking   |            |                   |                |  |
|       | d) No of hours of peaking   |            |                   |                |  |
|       | e) Overload capacity (MW) &   |            |                   |                |  |
|       | period  |            |                   |                |  |
| 5     | Type of excitation  |            |                   |                |  |
|       | a) Rotating exciters on generator   |            |                   |                |  |
|       | b) Static excitation  |            |                   |                |  |
| 6     | Design Energy (Annual)  | Mus        | 3.74              | 3.74           |  |
|       | Auxiliary Consumption including   |            |                   |                |  |
| 7     | Transformation losses   | %          | 1.00%             | 1.00%          |  |
|       | Normative Plant Availability  |            |                   |                |  |
| 8     | Factor (NAPAF)  | %          |                   |                |  |
|       | ,   | Rs.        |                   |                |  |
| 9.1   | Maintenance Spares for WC   | Lakh       |                   |                |  |
| 9.2   | Receivable for WC   | R. Lakh    |                   |                |  |
| 9.3   | Base Rate of return on equity   | %          | 14                | 14             |  |
| 9.4   | Tax Rate  | %          | Not Applicable    | Not Applicable |  |
|       | Prime lending Rate of SBI as on   |            |                   |                |  |
| 9.5   | April' 2017   | %          | 13.80%            | 12.90%         |  |
| 10.1  | Туре  |            |                   |                |  |
|       | Installed Capacity (Bo of Units x   |            |                   |                |  |
| 10.2  | MW)   | KW         | 450               | 450            |  |
|       | Peaking capacity during lean  |            |                   |                |  |
| 10.3  | period (MW)   |            |                   |                |  |
| 10.4  | Type of Turbine   |            |                   |                |  |
|       | Rated Head (M)  |            |                   |                |  |
|       | Rated Discharge (Cumes)   |            |                   |                |  |
| 10.0  | Nated Discharge (Cumes)   |            |                   |                |  |

Name of the Hydro Generating Station : Anini/ awapani Ph-I State/ Distt. Arunachal Pradesh/ Dibang Valley District

| Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |                                   |            |                   |                |  |
|---|-----------------------------------|------------|-------------------|----------------|--|
| (NAF  | (NAPAF)                           |            |                   |                |  |
|   | & other normative para            | meters cor | sidered for Tarif | f              |  |
| Sl.   | D                                 | TT '4      | 2019-20           | 2020-21        |  |
| No.   | Description                       | Unit       | (Estimated)       | (Projected)    |  |
| 1   | Installed Capacity                | KW         | 150               | 150            |  |
| 2   | Free Power to home state          | %          | NIL               | NIL            |  |
| 3   | Date of commercial operation      |            |                   |                |  |
|   | Unit – 1                          |            |                   |                |  |
|   | Unit – 2                          |            |                   |                |  |
|   | Unit – 3                          |            |                   |                |  |
| 4   | Type of Station                   |            |                   |                |  |
|   | a) Surface/ underground           |            |                   |                |  |
|   | -                                 |            |                   |                |  |
|   | b) Purely ROR/ Pondage/ Storage   |            |                   |                |  |
|   | c) Peaking/ non-peaking           |            |                   |                |  |
|   | d) No of hours of peaking         |            |                   |                |  |
|   | e) Overload capacity (MW) &       |            |                   |                |  |
|   | period                            |            |                   |                |  |
| 5   | Type of excitation                |            |                   |                |  |
|   | a) Rotating exciters on generator |            |                   |                |  |
|   | b) Static excitation              |            | 1                 |                |  |
| 6   | Design Energy (Annual)            | Mus        | 1.25              | 1.25           |  |
|   | Auxiliary Consumption including   |            | 1.000/            | 1.000/         |  |
| 7   | Transformation losses             | %          | 1.00%             | 1.00%          |  |
|   | Normative Plant Availability      | 0.4        |                   |                |  |
| 8   | Factor (NAPAF)                    | %          |                   |                |  |
|   | , ,                               | Rs.        |                   |                |  |
| 9.1   | Maintenance Spares for WC         | Lakh       |                   |                |  |
| 9.2   | Receivable for WC                 | R. Lakh    |                   |                |  |
| 9.3   | Base Rate of return on equity     | %          | 14                | 14             |  |
| 9.4   | Tax Rate                          | %          | Not Applicable    | Not Applicable |  |
|   | Prime lending Rate of SBI as on   |            |                   |                |  |
| 9.5   | April' 2017                       | %          | 13.80%            | 12.90%         |  |
| 10.1  | Туре                              |            |                   |                |  |
|   | Installed Capacity (Bo of Units x | 17337      | 1.50              | 150            |  |
| 10.2  | MW)                               | KW         | 150               | 150            |  |
| 10.0  | Peaking capacity during lean      |            |                   |                |  |
| 10.3  | period (MW)                       |            |                   |                |  |
| 10.4  | Type of Turbine                   |            |                   |                |  |
|   | Rated Head (M)                    |            |                   |                |  |
|   | Rated Discharge (Cumes)           |            |                   |                |  |
| - 5.5   | ( · · · · · · · · )               |            | <u> </u>          |                |  |

Name of the Hydro Generating Station : Awapani Ph-II State/ Distr. Arunachal Pradesh/ Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAI | PAF)  |             |                   | •              |
|------|---|-------------|-------------------|----------------|
|      | & other normative para                      | meters cor  | sidered for Tarif | f              |
| Sl.  | D   | TT. '4      | 2019-20           | 2020-21        |
| No.  | Description                                 | Unit        | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                          | KW          | 500               | 500            |
| 2    | Free Power to home state                    | %           | NIL               | NIL            |
| 3    | Date of commercial operation                |             |                   |                |
|      | Unit – 1                                    |             |                   |                |
|      | Unit – 2                                    |             |                   |                |
| 4    | Type of Station                             |             |                   |                |
|      | a) Surface/ underground                     |             |                   |                |
|      | b) Purely ROR/ Pondage/ Storage             |             |                   |                |
|      | c) Peaking/ non-peaking                     |             |                   |                |
|      | d) No of hours of peaking                   |             |                   |                |
|      | e) Overload capacity (MW) &                 |             |                   |                |
|      | period                                      |             |                   |                |
| 5    | Type of excitation                          |             |                   |                |
|      | a) Rotating exciters on generator           |             |                   |                |
|      | b) Static excitation                        |             | 1                 |                |
| 6    | Design Energy (Annual)                      | Mus         | 4.16              | 4.16           |
| 7    | Auxiliary Consumption including             | 0/          | 1.00%             | 1.00%          |
| /    | Transformation losses                       | %           | 1.00%             | 1.00%          |
| 8    | Normative Plant Availability                | %           |                   |                |
| 0    | Factor (NAPAF)                              | 70          |                   |                |
| 9.1  | Maintenance Spares for WC                   | Rs.<br>Lakh |                   |                |
| 9.2  | Receivable for WC                           | R. Lakh     |                   |                |
| 9.3  | Base Rate of return on equity               | %           | 14                | 14             |
| 9.4  | Tax Rate                                    | %           | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%            | 12.90%         |
| 10.1 | Туре  |             |                   |                |
| 10.2 | Installed Capacity (Bo of Units x MW)       | KW          | 500               | 500            |
| 10.3 | Peaking capacity during lean period (MW)    |             |                   |                |
|      | Type of Turbine                             |             |                   |                |
|      | Rated Head (M)                              |             |                   |                |
| 10.6 | Rated Discharge (Cumes)                     |             |                   |                |

Name of the Hydro Generating Station : Awapani at Gepuline State/ Distr. Arunachal Pradesh/ Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) 1 Installed Capacity KW 500 500 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit-2Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 4.16 4.16 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 14 % 14 9.3 Base Rate of return on equity % 9.4 Tax Rate Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 12.90% % 13.80% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 500 500 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)

10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Tah Ahfra Ph-I & Ph-II State/ Distt. Arunachal Pradesh/ Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit No. (Estimated) (Projected) 1 Installed Capacity KW 100 100 NIL Free Power to home state % NIL Date of commercial operation Unit – 1 Unit - 2Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 0.83 0.83 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 14 % 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 100 100 MW) Peaking capacity during lean 10.3 period (MW)

10.4 Type of Turbine 10.5 Rated Head (M)

10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Chini Afra State/ Distt. Arunachal Pradesh/ Dibang Valley District

|        | ls of Cod, Type of Hydro Stations,          |             |                   | vailability Factor  |
|--------|---|-------------|-------------------|---------------------|
| (NAF   |   | Normany     | Aimuai i iait, A  | variability I actor |
| (11711 | & other normative para                      | meters cor  | sidered for Tarif | f                   |
| Sl.    | _   |             | 2019-20           | 2020-21             |
| No.    | Description                                 | Unit        | (Estimated)       | (Projected)         |
| 1      | Installed Capacity                          | KW          | 250               | 250                 |
| 2      | Free Power to home state                    | %           | NIL               | NIL                 |
| 3      | Date of commercial operation                |             |                   |                     |
|        | Unit – 1                                    |             |                   |                     |
| 4      | Type of Station                             |             |                   |                     |
|        | a) Surface/ underground                     |             |                   |                     |
|        | b) Purely ROR/ Pondage/ Storage             |             |                   |                     |
|        | c) Peaking/ non-peaking                     |             |                   |                     |
|        | d) No of hours of peaking                   |             |                   |                     |
|        | e) Overload capacity (MW) &                 |             |                   |                     |
|        | period                                      |             |                   |                     |
| 5      | Type of excitation                          |             |                   |                     |
|        | a) Rotating exciters on generator           |             |                   |                     |
|        | b) Static excitation                        |             |                   |                     |
| 6      | Design Energy (Annual)                      | Mus         | 2.08              | 2.08                |
| 7      | Auxiliary Consumption including             | %           | 1.000/            | 1.000/              |
| /      | Transformation losses                       | %0          | 1.00%             | 1.00%               |
| 8      | Normative Plant Availability                | %           |                   |                     |
| 0      | Factor (NAPAF)                              | 70          |                   |                     |
| 9.1    | Maintenance Spares for WC                   | Rs.<br>Lakh |                   |                     |
| 9.2    | Receivable for WC                           | R. Lakh     |                   |                     |
| 9.3    | Base Rate of return on equity               | %           | 14                | 14                  |
| 9.4    | Tax Rate                                    | %           | Not Applicable    | Not Applicable      |
| 9.5    | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%            | 12.90%              |
| 10.1   | Туре  |             |                   |                     |
|        | Installed Capacity (Bo of Units x MW)       | KW          | 250               | 250                 |
|        | Peaking capacity during lean                |             |                   |                     |
| 10.3   | period (MW)                                 |             |                   |                     |
| 104    | Type of Turbine                             |             |                   |                     |
|        | Rated Head (M)                              |             |                   |                     |
|        | Rated Discharge (Cumes)                     |             |                   |                     |
| 10.0   | Ratea Discharge (Cumes)                     |             | <u> </u>          |                     |

Name of the Hydro Generating Station : Echi Ahfra State/ Distr. Arunachal Pradesh/ Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description No. (Estimated) (Projected) Installed Capacity 1 KW 400 400 NIL NIL 2 Free Power to home state % Date of commercial operation Unit – 2 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 400 400 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Echito Nallah State/ Distr. Arunachal Pradesh/ Dibang Valley District

| Detai      | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A        | vailability Factor |
|------------|---|------------|------------------------|--------------------|
| (NAF       | ,   |            |                        |                    |
|            | & other normative para                                | meters cor | sidered for Tarif      | f                  |
| Sl.<br>No. | Description   | Unit       | 2019-20<br>(Estimated) | 2020-21            |
| 1          | Installed Consoity                                    | KW         | (Estimated)<br>40      | (Projected)<br>40  |
| 2          | Installed Capacity Free Power to home state           | %          | NIL                    | NIL                |
| 3          |   | 70         | NIL                    | NIL                |
| 3          | Date of commercial operation                          |            |                        |                    |
|            | Unit – 1<br>Unit – 2                                  |            |                        |                    |
| 4          |   |            |                        |                    |
| 4          | Type of Station                                       |            |                        |                    |
|            | a) Surface/ underground                               |            |                        |                    |
|            | b) Purely ROR/ Pondage/ Storage                       |            |                        |                    |
|            | c) Peaking/ non-peaking                               |            |                        |                    |
|            | d) No of hours of peaking                             |            |                        |                    |
|            | e) Overload capacity (MW) &                           |            |                        |                    |
|            | period  |            |                        |                    |
| 5          | Type of excitation                                    |            |                        |                    |
|            | a) Rotating exciters on generator                     |            |                        |                    |
|            | b) Static excitation                                  |            |                        |                    |
| 6          | Design Energy (Annual)                                | Mus        | 0.33                   | 0.33               |
| 7          | Auxiliary Consumption including Transformation losses | %          | 1.00%                  | 1.00%              |
| 8          | Normative Plant Availability<br>Factor (NAPAF)        | %          |                        |                    |
| 0.1        | ·   | Rs.        |                        |                    |
| 9.1        | Maintenance Spares for WC                             | Lakh       |                        |                    |
| 9.2        | Receivable for WC                                     | R. Lakh    |                        |                    |
| 9.3        | Base Rate of return on equity                         | %          | 14                     | 14                 |
| 9.4        | Tax Rate  | %          | Not Applicable         | Not Applicable     |
| 9.5        | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%                 | 12.90%             |
| 10.1       | Type  |            |                        |                    |
| 10.2       | Installed Capacity (Bo of Units x MW)                 | KW         | 40                     | 40                 |
| 10.3       | Peaking capacity during lean period (MW)              |            |                        |                    |
| 10.4       | Type of Turbine                                       |            |                        |                    |
| 10.5       | Rated Head (M)  |            |                        |                    |
| 10.6       | Rated Discharge (Cumes)                               |            |                        |                    |

Name of the Hydro Generating Station : Rupapani State/ Distr. Arunachal Pradesh/ Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW 40 40 NIL NIL 2 Free Power to home state % Date of commercial operation Unit – 2 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.33 0.33 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 40 KW 40 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Chu Nallah State/ Distr. Arunachal Pradesh/ Dibang Valley District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description (Estimated) No. (Projected) Installed Capacity 1 KW 30 30 NIL 2 Free Power to home state NIL % Date of commercial operation Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.25 0.25 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 30 30 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

## Name of the Hydro Generating Station : Dura Nallah State/ Distr. Arunachal Pradesh/ Lohit District

| Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |                                   |            |                   |                |  |
|---|-----------------------------------|------------|-------------------|----------------|--|
|   | (NAPAF)                           |            |                   |                |  |
| (   | & other normative para            | meters con | sidered for Tarif | f              |  |
| Sl.   | •                                 |            | 2019-20           | 2020-21        |  |
| No.   | Description                       | Unit       | (Estimated)       | (Projected)    |  |
| 1   | Installed Capacity                | KW         | 500               | 500            |  |
| 2   | Free Power to home state          | %          | NIL               | NIL            |  |
| 3   | Date of commercial operation      | 70         | 1112              | 1112           |  |
|   | Unit – 1                          |            |                   |                |  |
|   | Unit – 2                          |            |                   |                |  |
|   | Unit – 3                          |            |                   |                |  |
|   | Unit – 4                          |            |                   |                |  |
|   | Unit – 5                          |            |                   |                |  |
| 4   | Type of Station                   |            |                   |                |  |
|   | a) Surface/ underground           |            |                   |                |  |
|   | ,                                 |            |                   |                |  |
|   | b) Purely ROR/ Pondage/ Storage   |            |                   |                |  |
|   | c) Peaking/ non-peaking           |            |                   |                |  |
|   | d) No of hours of peaking         |            |                   |                |  |
|   | e) Overload capacity (MW) &       |            |                   |                |  |
|   | period                            |            |                   |                |  |
| 5   | Type of excitation                |            |                   |                |  |
|   | a) Rotating exciters on generator |            |                   |                |  |
|   | b) Static excitation              |            | 1                 |                |  |
| 6   | Design Energy (Annual)            | Mus        | 4.16              | 4.16           |  |
| 7   | Auxiliary Consumption including   | 0/         | 1.000/            | 1.000/         |  |
| 7   | Transformation losses             | %          | 1.00%             | 1.00%          |  |
| 0   | Normative Plant Availability      | 0/         |                   |                |  |
| 8   | Factor (NAPAF)                    | %          |                   |                |  |
| 0.1   | ,                                 | Rs.        |                   |                |  |
| 9.1   | Maintenance Spares for WC         | Lakh       |                   |                |  |
| 9.2   | Receivable for WC                 | R. Lakh    |                   |                |  |
| 9.3   | Base Rate of return on equity     | %          | 14                | 14             |  |
| 9.4   | Tax Rate                          | %          | Not Applicable    | Not Applicable |  |
| 0.5   | Prime lending Rate of SBI as on   | 0/         |                   |                |  |
| 9.5   | April' 2017                       | %          | 13.80%            | 12.90%         |  |
| 10.1  | Туре                              |            |                   |                |  |
|   | Installed Capacity (Bo of Units x | 17337      | 400               | 400            |  |
| 10.2  | MW)                               | KW         | 400               | 400            |  |
| 10.2  | Peaking capacity during lean      |            |                   |                |  |
| 10.3  | period (MW)                       |            |                   |                |  |
| 10.4  | Type of Turbine                   |            |                   |                |  |
|   | Rated Head (M)                    |            |                   |                |  |
|   | Rated Discharge (Cumes)           |            |                   |                |  |
|   | <u> </u>                          |            |                   |                |  |

Name of the Hydro Generating Station : Tafragram State/ Distr. Arunachal Pradesh/ Lohit District

| Soliton  |      | ls of Cod, Type of Hydro Stations, | Normative  | e Annual Plant, A | vailability Factor |
|--|------|------------------------------------|------------|-------------------|--------------------|
| Si. No.   Description   Unit   2019-20 (Estimated)   (Projected)   | (NAF |                                    |            | :1 1C T :C        | c                  |
| No.   Description   Unit   (Estimated)   (Projected)   | ~-   | & other normative para             | meters cor |                   |                    |
| No.   (Estimated) (Projected)  |      | Description                        | Unit       |                   |                    |
| 2   Free Power to home state   %   NIL   NIL   |      | -                                  |            |                   |                    |
| Date of commercial operation   | 1    | * *                                |            |                   |                    |
| Unit - 1   |      |                                    | %          | NIL               | NIL                |
| Type of Station  | 3    |                                    |            |                   |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      |                                    |            |                   |                    |
| b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 4    |                                    |            |                   |                    |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | a) Surface/ underground            |            |                   |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | b) Purely ROR/ Pondage/ Storage    |            |                   |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 2.08 2.08  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW)  Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |      | c) Peaking/ non-peaking            |            |                   |                    |
| e) Overload capacity (MW) & period  5  |      |                                    |            |                   |                    |
| period   |      |                                    |            |                   |                    |
| a) Rotating exciters on generator   b) Static excitation   6   Design Energy (Annual)   Mus   2.08   2.08     7  |      | 2                                  |            |                   |                    |
| b) Static excitation   Comparison   Compar | 5    | Type of excitation                 |            |                   |                    |
| 6         Design Energy (Annual)         Mus         2.08         2.08           7         Auxiliary Consumption including Transformation losses         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         8           9.1         Maintenance Spares for WC         Rs. Lakh         Lakh           9.2         Receivable for WC         R. Lakh         Not Applicable           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         250         250           10.3         Peaking capacity (Bo of Units x MW)         KW         250         250           10.4         Type of Turbine         Type of Turbine         10.5         Rated Head (M)         Type of Turbine         Type of   |      | a) Rotating exciters on generator  |            |                   |                    |
| 7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1         Maintenance Spares for WC         Rs. Lakh           9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         Type         250         250           10.3         Peaking capacity (Bo of Units x MW)         KW         250         250           10.4         Type of Turbine         Type of Turbine         Type of Turbine         Type of Turbine           10.5         Rated Head (M)         Res. Lakh         1.00%         1.00%         1.00%  |      | b) Static excitation               |            | 1                 |                    |
| Transformation losses  | 6    | Design Energy (Annual)             | Mus        | 2.08              | 2.08               |
| Transformation losses  | 7    | Auxiliary Consumption including    | 0/         | 1.000/            | 1 000/             |
| Factor (NAPAF)   | /    | Transformation losses              | %0         | 1.00%             | 1.00%              |
| Factor (NAPAF)   | 0    | Normative Plant Availability       | 0/         |                   |                    |
| 9.1       Maintenance Spares for WC       Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type         10.2       Installed Capacity (Bo of Units x MW)       KW       250       250         10.3       Peaking capacity during lean period (MW)       Peaking capacity during lean period (MW)       Type of Turbine       Installed Head (M)   | 8    | =                                  | %0         |                   |                    |
| 9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         Type         Type           10.2         Installed Capacity (Bo of Units x MW)         KW         250         250           10.3         Peaking capacity during lean period (MW)         Type of Turbine         Type of Turbine           10.5         Rated Head (M)         Type of Turbine         Type of Turbine  | 0.1  | Maintanana Suana fan WC            | Rs.        |                   |                    |
| 9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         KW         250         250           10.2         MW)         KW         250         250           10.3         Peaking capacity during lean period (MW)         Fraging Capacity  | 9.1  | Maintenance Spares for WC          |            |                   |                    |
| 9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90%  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.2  | Receivable for WC                  | R. Lakh    |                   |                    |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.3  | Base Rate of return on equity      |            |                   |                    |
| 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4  | Tax Rate                           | %          | Not Applicable    | Not Applicable     |
| April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 0.5  | Prime lending Rate of SBI as on    | 0/2        | 12 20%            | 12 00%             |
| Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 9.5  | April' 2017                        | /0         | 13.8070           | 12.90/0            |
| 10.2 MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.1 |                                    |            |                   |                    |
| 10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2 | - · ·                              | KW         | 250               | 250                |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2 | MW)                                | IX VV      | 230               | 230                |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2 | Peaking capacity during lean       |            |                   |                    |
| 10.5 Rated Head (M)  | 10.3 | period (MW)                        |            |                   |                    |
|  |      | * 4                                |            |                   |                    |
| 10.6 Rated Discharge (Cumes)   | 10.5 | Rated Head (M)                     |            |                   |                    |
|  | 10.6 | Rated Discharge (Cumes)            |            |                   |                    |

Name of the Hydro Generating Station : Tissue State/ Distt. Arunachal Pradesh/ Changlang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) Installed Capacity 1 KW 400 400 NIL NIL 2 Free Power to home state % Date of commercial operation Unit -1Unit - 2Unit - 3Unit - 44 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 3.33 3.33 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 400 400 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station: Jongkey Nallah State/ Distr. Arunachal Pradesh/ Changlang District

Details of Cod. Type of Hydro Stations. Normative Annual Processing Stations.

|            | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |              |                |                        |  |
|------------|---|--------------|----------------|------------------------|--|
| (NAI       | (NAPAF) & other normative parameters considered for Tariff                          |              |                |                        |  |
| C1         | & other normative para  | illeters cor | 2019-20        |                        |  |
| Sl.<br>No. | Description   | Unit         | (Estimated)    | 2020-21<br>(Projected) |  |
| 1          | Installed Capacity  | KW           | 25             | 25                     |  |
| 2          | Free Power to home state  | %            | NIL            | NIL                    |  |
| 3          | Date of commercial operation  | 70           | TVIE           | TVIL                   |  |
|            | Unit – 1  |              |                |                        |  |
| 4          | Type of Station   |              |                |                        |  |
|            | a) Surface/ underground   |              |                |                        |  |
|            | b) Purely ROR/ Pondage/ Storage   |              |                |                        |  |
|            | c) Peaking/ non-peaking   |              |                |                        |  |
|            | d) No of hours of peaking   |              |                |                        |  |
|            | e) Overload capacity (MW) &   |              |                |                        |  |
|            | period  |              |                |                        |  |
| 5          | Type of excitation  |              |                |                        |  |
|            | a) Rotating exciters on generator   |              |                |                        |  |
|            | b) Static excitation  |              |                |                        |  |
| 6          | Design Energy (Annual)  | Mus          | 0.21           | 0.21                   |  |
| 7          | Auxiliary Consumption including   | %            | 1.00%          | 1.00%                  |  |
|            | Transformation losses   | 70           |                | 1.0070                 |  |
| 8          | Normative Plant Availability  | %            |                |                        |  |
|            | Factor (NAPAF)  |              |                |                        |  |
| 9.1        | Maintenance Spares for WC   | Rs.          |                |                        |  |
|            | -   | Lakh         |                |                        |  |
| 9.2        | Receivable for WC   | R. Lakh      |                |                        |  |
| 9.3        | Base Rate of return on equity   | %            | 14             | 14                     |  |
| 9.4        | Tax Rate  | %            | Not Applicable | Not Applicable         |  |
| 9.5        | Prime lending Rate of SBI as on April' 2017   | %            | 13.80%         | 12.90%                 |  |
| 10.1       | Туре  |              |                |                        |  |
| 10.2       | Installed Capacity (Bo of Units x   | KW           | 25             | 25                     |  |
|            | MW)   |              |                |                        |  |
| 10.3       | Peaking capacity during lean  |              |                |                        |  |
| 10.4       | period (MW)   |              | <br>           |                        |  |
|            | Type of Turbine   |              |                |                        |  |
|            | Rated Head (M)  |              |                |                        |  |
| 10.6       | Rated Discharge (Cumes)   |              |                |                        |  |

Name of the Hydro Generating Station : Ngonalo at Vijaynagar

State/ Distt. Arunachal Pradesh/ Changlang District

|        | ils of Cod, Type of Hydro Stations,     |            |                   | vailability Factor  |
|--------|---|------------|-------------------|---------------------|
| (NAI   |   | Normany    | Amuai i iani, A   | valiability 1 actor |
| (11/11 | & other normative para                  | meters cor | sidered for Tarif | f                   |
| Sl.    |   | meters con | 2019-20           | 2020-21             |
| No.    | Description                             | Unit       | (Estimated)       | (Projected)         |
| 1      | Installed Capacity                      | KW         | 100               | 100                 |
| 2      | Free Power to home state                | %<br>%     | NIL               | NIL                 |
| 3      | Date of commercial operation            | /0         | NIL               | NIL                 |
|        | Unit – 1                                |            |                   |                     |
|        | Unit – 2                                |            |                   |                     |
| 4      |   |            |                   |                     |
| 4      | Type of Station                         |            |                   |                     |
|        | a) Surface/ underground                 |            |                   |                     |
|        | b) Purely ROR/ Pondage/ Storage         |            |                   |                     |
|        | c) Peaking/ non-peaking                 |            |                   |                     |
|        | d) No of hours of peaking               |            |                   |                     |
|        | e) Overload capacity (MW) &             |            |                   |                     |
|        | period                                  |            |                   |                     |
| 5      | Type of excitation                      |            |                   |                     |
|        | a) Rotating exciters on generator       |            |                   |                     |
|        | b) Static excitation                    |            |                   |                     |
| 6      | Design Energy (Annual)                  | Mus        | 0.83              | 0.83                |
| 7      | Auxiliary Consumption including         | 0/         | 1.000/            | 1.000/              |
| /      | Transformation losses                   | %          | 1.00%             | 1.00%               |
| 0      | Normative Plant Availability            | 0/         |                   |                     |
| 8      | Factor (NAPAF)                          | %          |                   |                     |
| 0.1    | M · · · · · · · · · · · · · · · · · · · | Rs.        |                   |                     |
| 9.1    | Maintenance Spares for WC               | Lakh       |                   |                     |
| 9.2    | Receivable for WC                       | R. Lakh    |                   |                     |
| 9.3    | Base Rate of return on equity           | %          | 14                | 14                  |
| 9.4    | Tax Rate                                | %          | Not Applicable    | Not Applicable      |
| 9.5    | Prime lending Rate of SBI as on         | %          | 13.80%            | 12.90%              |
|        | April' 2017                             | 70         | 13.0070           | 12.7070             |
| 10.1   | Туре                                    |            |                   |                     |
| 10.2   | Installed Capacity (Bo of Units x       | KW         | 100               | 100                 |
| 10.2   | MW)                                     | 17.11      | 100               | 100                 |
| 10.3   | Peaking capacity during lean            |            |                   |                     |
|        | period (MW)                             |            |                   |                     |
| 10.4   | Type of Turbine                         |            |                   |                     |
|        | Rated Head (M)                          |            |                   |                     |
|        | Rated Discharge (Cumes)                 |            |                   |                     |
|        | - ` ,                                   |            |                   |                     |

Name of the Hydro Generating Station : Tinning State/ Distt. Arunachal Pradesh/ Changlang District

| Detai      | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A        | vailability Factor     |
|------------|---|------------|------------------------|------------------------|
| (NAF       | PAF)  |            |                        |                        |
|            | & other normative para                                | meters cor | sidered for Tarif      | f                      |
| Sl.<br>No. | Description   | Unit       | 2019-20<br>(Estimated) | 2020-21<br>(Projected) |
| 1          | Installed Capacity                                    | KW         | 60                     | 60                     |
| 2          | Free Power to home state                              | %          | NIL                    | NIL                    |
| 3          | Date of commercial operation                          | /0         | IVIL                   | NIL                    |
|            | Unit – 1  |            |                        |                        |
|            | Unit – 2  |            |                        |                        |
| 4          | Type of Station                                       |            |                        |                        |
| -+         |   |            |                        |                        |
|            | a) Surface/ underground                               |            |                        |                        |
|            | b) Purely ROR/ Pondage/ Storage                       |            |                        |                        |
|            | c) Peaking/ non-peaking                               |            |                        |                        |
|            | d) No of hours of peaking                             |            |                        |                        |
|            | e) Overload capacity (MW) &                           |            |                        |                        |
|            | period  |            |                        |                        |
| 5          | Type of excitation                                    |            |                        |                        |
|            | a) Rotating exciters on generator                     |            |                        |                        |
|            | b) Static excitation                                  |            |                        |                        |
| 6          | Design Energy (Annual)                                | Mus        | 0.50                   | 0.50                   |
| 7          | Auxiliary Consumption including Transformation losses | %          | 1.00%                  | 1.00%                  |
| 8          | Normative Plant Availability<br>Factor (NAPAF)        | %          |                        |                        |
| 9.1        | Maintenance Spares for WC                             | Rs.        |                        |                        |
| 0.0        | _   | Lakh       |                        |                        |
| 9.2        | Receivable for WC                                     | R. Lakh    |                        |                        |
| 9.3        | Base Rate of return on equity                         | %          | 14                     | 14                     |
| 9.4        | Tax Rate  | %          | Not Applicable         | Not Applicable         |
| 9.5        | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%                 | 12.90%                 |
| 10.1       | Туре  | ·          |                        |                        |
| 10.2       | Installed Capacity (Bo of Units x MW)                 | KW         | 60                     | 60                     |
| 10.3       | Peaking capacity during lean period (MW)              |            |                        |                        |
| 10.4       | Type of Turbine                                       |            |                        |                        |
| 10.5       | Rated Head (M)  |            |                        |                        |
| 10.6       | Rated Discharge (Cumes)                               |            |                        |                        |

Name of the Hydro Generating Station : Chicklong State/ Distt. Arunachal Pradesh/ Changlang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) 1 Installed Capacity KW 150 150 Free Power to home state NIL NIL % Date of commercial operation Unit - 1Unit - 2Unit - 3Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 1.25 1.25 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 12.90% 13.80% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 150 150 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Thiratju State/ Distt. Arunachal Pradesh/ Tirap District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff S1. 2019-20 2020-21 Unit Description (Estimated) (Projected) No. KW Installed Capacity 1000 1000 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit – 2 Unit - 3Unit – 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 8.32 8.32 Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability 8 % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % % Not Applicable 9.4 Tax Rate Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x KW 1000 1000 MW) 10.3 Peaking capacity during lean period (MW)

10.4 Type of Turbine 10.5 Rated Head (M)

10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Charju State/ Distt. Arunachal Pradesh/ Tirap District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAI | PAF)                              |            |                   |                |
|------|-----------------------------------|------------|-------------------|----------------|
|      | & other normative para            | meters cor | sidered for Tarif | f              |
| Sl.  | D                                 | TT '4      | 2019-20           | 2020-21        |
| No.  | Description                       | Unit       | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                | KW         | 600               | 600            |
| 2    | Free Power to home state          | %          | NIL               | NIL            |
| 3    | Date of commercial operation      |            |                   |                |
|      | Unit – 1                          |            |                   |                |
|      | Unit – 2                          |            |                   |                |
|      | Unit – 3                          |            |                   |                |
| 4    | Type of Station                   |            |                   |                |
|      | a) Surface/ underground           |            |                   |                |
|      | b) Purely ROR/ Pondage/ Storage   |            |                   |                |
|      | c) Peaking/ non-peaking           |            |                   |                |
|      | d) No of hours of peaking         |            |                   |                |
|      | e) Overload capacity (MW) &       |            |                   |                |
|      | period                            |            |                   |                |
| 5    | Type of excitation                |            |                   |                |
|      | a) Rotating exciters on generator |            |                   |                |
|      | b) Static excitation              |            |                   |                |
| 6    | Design Energy (Annual)            | Mus        | 4.99              | 4.99           |
| 7    | Auxiliary Consumption including   | %          | 1.000/            | 1.00%          |
| /    | Transformation losses             | 70         | 1.00%             | 1.00%          |
| 8    | Normative Plant Availability      | %          |                   |                |
| 0    | Factor (NAPAF)                    | 70         |                   |                |
| 9.1  | Maintenance Spares for WC         | Rs.        |                   |                |
| 9.1  | Maintenance Spares for w.C.       | Lakh       |                   |                |
| 9.2  | Receivable for WC                 | R. Lakh    |                   |                |
| 9.3  | Base Rate of return on equity     | %          | 14                | 14             |
| 9.4  | Tax Rate                          | %          | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on   | %          | 13.80%            | 12.90%         |
|      | April' 2017                       | 70         | 13.8070           | 12.9070        |
| 10.1 | Туре                              |            |                   |                |
| 10.2 | Installed Capacity (Bo of Units x | KW         | 600               | 600            |
| 10.2 | MW)                               | 17.11      | 000               | 000            |
| 10.3 | Peaking capacity during lean      |            |                   |                |
|      | period (MW)                       |            |                   |                |
|      | Type of Turbine                   |            |                   |                |
|      | Rated Head (M)                    |            |                   |                |
| 10.6 | Rated Discharge (Cumes)           |            |                   |                |

Name of the Hydro Generating Station: Sumhok Nallah

State/ Distt. Arunachal Pradesh/ Tirap District

Details of Cod. Type of Hydro Stations, Norma

| Solition   | Detai | ls of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A   | vailability Factor |
|--|-------|------------------------------------|------------|-------------------|--------------------|
| Si.   Description  | (NAF  | PAF)                               |            |                   |                    |
| No.   Description   Unit   (Estimated)   (Projected)   |       | & other normative para             | meters con | sidered for Tarif | f                  |
| No.   (Estimated) (Projected)  | Sl.   | Description                        | I Init     | 2019-20           | 2020-21            |
| 2   Free Power to home state   %   NIL   NIL   | No.   | Description                        | Unit       | (Estimated)       | (Projected)        |
| Date of commercial operation   | 1     | Installed Capacity                 | KW         | 100               | 100                |
| Unit - 1   | 2     | Free Power to home state           | %          | NIL               | NIL                |
| Unit - 2   | 3     | Date of commercial operation       |            |                   |                    |
| Type of Station  |       | Unit – 1                           |            |                   |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | Unit – 2                           |            |                   |                    |
| b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 4     |                                    |            |                   |                    |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | a) Surface/ underground            |            |                   |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | b) Purely ROR/ Pondage/ Storage    |            |                   |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83  7 Auxiliary Consumption including Transformation losses  8 Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC Rs. Lakh  9.2 Receivable for WC R. Lakh  9.3 Base Rate of return on equity % 14 14  9.4 Tax Rate % Not Applicable Not Applicable  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       | c) Peaking/ non-peaking            |            |                   |                    |
| period   |       |                                    |            |                   |                    |
| Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 MW) Peaking capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   |       | e) Overload capacity (MW) &        |            |                   |                    |
| a) Rotating exciters on generator   b) Static excitation   6   Design Energy (Annual)   Mus   0.83   0.83     7  |       | period                             |            |                   |                    |
| b) Static excitation   Comparison   Compar | 5     | Type of excitation                 |            |                   |                    |
| 6         Design Energy (Annual)         Mus         0.83         0.83           7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         8         8           9.1         Maintenance Spares for WC         Rs. Lakh         Lakh         9.2         Receivable for WC         R. Lakh         9.3         Base Rate of return on equity         %         14         14         14         14         14         9.4         7.2         12.90%         12.90%         12.90%         12.90%         12.90%         10.0   |       | a) Rotating exciters on generator  |            |                   |                    |
| 7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         Rs.         Lakh           9.1         Maintenance Spares for WC         Rs. Lakh         Lakh         Rs. Lakh           9.2         Receivable for WC         R. Lakh         Not Applicable         Not Applicable           9.3         Base Rate of return on equity         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         Type         Type           10.2         Installed Capacity (Bo of Units x MW)         KW         100         100           10.3         Peaking capacity during lean period (MW)         Type of Turbine         Type of Turbine         Type of Turbine           10.5         Rated Head (M)         Type of Turbine         Type of Turbine         Type of Turbine         Type of Turbine   |       | b) Static excitation               |            |                   |                    |
| Transformation losses  | 6     | Design Energy (Annual)             | Mus        | 0.83              | 0.83               |
| Factor (NAPAF)   | 7     |                                    | %          | 1.00%             | 1.00%              |
| 9.1       Maintenance Spares for WC       Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type         10.2       Installed Capacity (Bo of Units x MW)       KW       100       100         10.3       Peaking capacity during lean period (MW)       Type of Turbine       10.5       Rated Head (M)   | 8     | •                                  | %          |                   |                    |
| 9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Installed Capacity (Bo of Units x MW)         KW         100         100           10.3         Peaking capacity during lean period (MW)         Peaking capacity during lean period (MW)         Installed Head (M)         Installed Head (M)   | 0.1   | , , ,                              | Rs.        |                   |                    |
| 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  | 9.1   | Maintenance Spares for WC          | Lakh       |                   |                    |
| 9.4 Tax Rate   | 9.2   | Receivable for WC                  | R. Lakh    |                   |                    |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.3   | Base Rate of return on equity      | %          | 14                | 14                 |
| April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4   | Tax Rate                           | %          | Not Applicable    | Not Applicable     |
| 10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 9.5   |                                    | %          | 13.80%            | 12.90%             |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 10.1  | Type                               |            |                   |                    |
| 10.3 period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 10.2  | MW)                                | KW         | 100               | 100                |
| 10.5 Rated Head (M)  |       | period (MW)                        |            |                   |                    |
| 10.5 Rated Head (M)  | 10.4  | Type of Turbine                    |            |                   |                    |
| 10.6 Rated Discharge (Cumes)   | 10.5  | Rated Head (M)                     |            |                   |                    |
|  | 10.6  | Rated Discharge (Cumes)            |            |                   |                    |

Name of the Hydro Generating Station : Tahin Nallah State/ Distr. Arunachal Pradesh/ Tirap District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit (Estimated) No. (Projected) 1 Installed Capacity KW 100 100 Free Power to home state NIL NIL % Date of commercial operation Unit - 1 Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 100 100 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Namchik II MHS State/ Distr. Arunachal Pradesh/ Tirap District

| Detai | ls of Cod, Type of Hydro Stations,                    | Normative  | Annual Plant, A | vailability Factor |
|-------|---|------------|-----------------|--------------------|
| (NAF  | ,   |            |                 |                    |
|       | & other normative para                                | meters con |                 |                    |
| Sl.   | Description   | Unit       | 2019-20         | 2020-21            |
| No.   | •   |            | (Estimated)     | (Projected)        |
| 1     | Installed Capacity                                    | KW         | 300             | 300                |
| 2     | Free Power to home state                              | %          | NIL             | NIL                |
| 3     | Date of commercial operation                          |            |                 |                    |
|       | Unit – 1  |            |                 |                    |
|       | Unit – 2  |            |                 |                    |
| 4     | Type of Station                                       |            |                 |                    |
|       | a) Surface/ underground                               |            |                 |                    |
|       | b) Purely ROR/ Pondage/ Storage                       |            |                 |                    |
|       | c) Peaking/ non-peaking                               |            |                 |                    |
|       | d) No of hours of peaking                             |            |                 |                    |
|       | e) Overload capacity (MW) &                           |            |                 |                    |
|       | period  |            |                 |                    |
| 5     | Type of excitation                                    |            |                 |                    |
|       | a) Rotating exciters on generator                     |            |                 |                    |
|       | b) Static excitation                                  |            |                 |                    |
| 6     | Design Energy (Annual)                                | Mus        | 2.50            | 2.50               |
| 7     | Auxiliary Consumption including Transformation losses | %          | 1.00%           | 1.00%              |
| 8     | Normative Plant Availability<br>Factor (NAPAF)        | %          |                 |                    |
| 0.1   | ·   | Rs.        |                 |                    |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                 |                    |
| 9.2   | Receivable for WC                                     | R. Lakh    |                 |                    |
| 9.3   | Base Rate of return on equity                         | %          | 14              | 14                 |
| 9.4   | Tax Rate  | %          | Not Applicable  | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%          | 12.90%             |
| 10.1  | Type  |            |                 |                    |
|       | Installed Capacity (Bo of Units x MW)                 | KW         | 100             | 100                |
| 10.3  | Peaking capacity during lean period (MW)              |            |                 |                    |
|       | Type of Turbine                                       |            |                 |                    |
| 10.5  | Rated Head (M)  |            |                 |                    |
| 10.6  | Rated Discharge (Cumes)                               |            |                 |                    |

Name of the Hydro Generating Station : Kaho State/ Distt. Arunachal Pradesh/ Anjaw District

| Detai | ls of Cod, Type of Hydro Stations,          | Normative  | Annual Plant, A   | vailability Factor |
|-------|---|------------|-------------------|--------------------|
| (NAF  | ,   |            |                   |                    |
|       | & other normative para                      | meters con | sidered for Tarif | f                  |
| Sl.   | Description                                 | Unit       | 2019-20           | 2020-21            |
| No.   | -   |            | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                          | KW         | 10                | 10                 |
| 2     | Free Power to home state                    | %          | NIL               | NIL                |
| 3     | Date of commercial operation                |            |                   |                    |
|       | Unit – 1                                    |            |                   |                    |
| 4     | Type of Station                             |            |                   |                    |
|       | a) Surface/ underground                     |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage             |            |                   |                    |
|       | c) Peaking/ non-peaking                     |            |                   |                    |
|       | d) No of hours of peaking                   |            |                   |                    |
|       | e) Overload capacity (MW) &                 |            |                   |                    |
|       | period                                      |            |                   |                    |
| 5     | Type of excitation                          |            |                   |                    |
|       | a) Rotating exciters on generator           |            |                   |                    |
|       | b) Static excitation                        |            |                   |                    |
| 6     | Design Energy (Annual)                      | Mus        | 0.08              | 0.08               |
| 7     | Auxiliary Consumption including             | 0/         | 1.00%             | 1.00%              |
| /     | Transformation losses                       | %          | 1.00%             | 1.00%              |
| 0     | Normative Plant Availability                | 0/         |                   |                    |
| 8     | Factor (NAPAF)                              | %          |                   |                    |
| 0.1   | Maintananaa Snanaa fan W.C.                 | Rs.        |                   |                    |
| 9.1   | Maintenance Spares for WC                   | Lakh       |                   |                    |
| 9.2   | Receivable for WC                           | R. Lakh    |                   |                    |
| 9.3   | Base Rate of return on equity               | %          | 14                | 14                 |
| 9.4   | Tax Rate                                    | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on April' 2017 | %          | 13.80%            | 12.90%             |
| 10.1  | Type  |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)       | KW         | 10                | 10                 |
| 10.3  | Peaking capacity during lean period (MW)    |            |                   |                    |
| 10.4  | Type of Turbine                             |            |                   |                    |
|       | Rated Head (M)                              |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                     |            |                   |                    |

Name of the Hydro Generating Station : Kebitho State/ Distt. Arunachal Pradesh/ Anjaw District

| Station  | Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                |                |  |
|--|-------|---|------------|----------------|----------------|--|
| SI   | (NAF  | ,   |            |                |                |  |
| No.  |       | & other normative para  | meters con |                |                |  |
| No.   Cestimated   (Projected)   |       | Description   | I Init     |                |                |  |
| Pree Power to home state   | No.   | 1   |            |                | (Projected)    |  |
| 3   Date of commercial operation   Unit - 1  | 1     |   |            |                |                |  |
| Unit - 1   |       |   | %          | NIL            | NIL            |  |
| Type of Station  | 3     |   |            |                |                |  |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.25 0.25 Auxiliary Consumption including Transformation losses  Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity Mot Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       |   |            |                |                |  |
| b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.25 0.25 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)  9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)   | 4     | **  |            |                |                |  |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)  |       | a) Surface/ underground   |            |                |                |  |
| d) No of hours of peaking   e) Overload capacity (MW) & period       5   |       | b) Purely ROR/ Pondage/ Storage   |            |                |                |  |
| e) Overload capacity (MW) & period  5  |       | c) Peaking/ non-peaking   |            |                |                |  |
| period   |       | d) No of hours of peaking   |            |                |                |  |
| 5 Type of excitation         a) Rotating exciters on generator           b) Static excitation         b) Static excitation           6 Design Energy (Annual)         Mus         0.25         0.25           7 Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8 Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1 Maintenance Spares for WC         Rs. Lakh         Lakh           9.2 Receivable for WC         R. Lakh         Not Applicable           9.3 Base Rate of return on equity         %         14         14           9.4 Tax Rate         % Not Applicable         Not Applicable           9.5 Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1 Type         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3 Peaking capacity during lean period (MW)         Reserved         Reserved         Reserved         Reserved           10.5 Rated Head (M)         Reserved         Reserved <td></td> <td>e) Overload capacity (MW) &amp;</td> <td></td> <td></td> <td></td> |       | e) Overload capacity (MW) &   |            |                |                |  |
| a) Rotating exciters on generator   b) Static excitation   Compared to   |       | period  |            |                |                |  |
| b) Static excitation   6   Design Energy (Annual)   Mus   0.25   0.25     7  | 5     | Type of excitation  |            |                |                |  |
| 6         Design Energy (Annual)         Mus         0.25         0.25           7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         Rs. Lakh           9.1         Maintenance Spares for WC         Rs. Lakh           9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         Type         Type           10.2         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3         Peaking capacity during lean period (MW)         Type of Turbine         Type of Turbine         Type of Turbine           10.5         Rated Head (M)         Type of Turbine         Type of Turbine         Type of Turbine   |       | a) Rotating exciters on generator   |            |                |                |  |
| 7         Auxiliary Consumption including Transformation losses         %         1.00%         1.00%           8         Normative Plant Availability Factor (NAPAF)         %         Rs.           9.1         Maintenance Spares for WC         Rs.         Lakh           9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         Type         Type           10.2         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3         Peaking capacity during lean period (MW)         Type of Turbine         Type of Turbine         Type of Turbine           10.5         Rated Head (M)         Type of Turbine         Type of Turbine         Type of Turbine   |       | b) Static excitation  |            |                |                |  |
| Transformation losses  | 6     | Design Energy (Annual)  | Mus        | 0.25           | 0.25           |  |
| 1  | 7     | Auxiliary Consumption including   | 0/.        | 1.00%          | 1 000/         |  |
| Factor (NAPAF)   | /     |   | 70         | 1.00%          | 1.00%          |  |
| 9.1 Maintenance Spares for WC  9.2 Receivable for WC  9.3 Base Rate of return on equity  9.4 Tax Rate  9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 0     | Normative Plant Availability  | 0/         |                |                |  |
| 9.1       Maintenance Spares for WC       Lakh         9.2       Receivable for WC       R. Lakh         9.3       Base Rate of return on equity       %       14       14         9.4       Tax Rate       %       Not Applicable       Not Applicable         9.5       Prime lending Rate of SBI as on April' 2017       %       13.80%       12.90%         10.1       Type       Type       Type         10.2       Installed Capacity (Bo of Units x MW)       KW       30       30         10.3       Peaking capacity during lean period (MW)       Type of Turbine       Type of Turbine         10.5       Rated Head (M)       K       Type of Turbine       Type of Turbine  | 0     | Factor (NAPAF)  | 70         |                |                |  |
| 9.2         Receivable for WC         R. Lakh           9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         Type         Type         Type           10.2         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3         Peaking capacity during lean period (MW)         Type of Turbine         Type of Turbine           10.5         Rated Head (M)         Type of Turbine         Type of Turbine  | 9.1   | Maintenance Spares for WC   |            |                |                |  |
| 9.3         Base Rate of return on equity         %         14         14           9.4         Tax Rate         %         Not Applicable         Not Applicable           9.5         Prime lending Rate of SBI as on April' 2017         %         13.80%         12.90%           10.1         Type         KW         30         30           10.2         Installed Capacity (Bo of Units x MW)         KW         30         30           10.3         Peaking capacity during lean period (MW)         Feed the period (MW)         Feed the period (MW)           10.4         Type of Turbine         Feed the period (MW)         Feed the period (MW)   |       | -   |            |                |                |  |
| 9.4 Tax Rate   |       |   |            |                |                |  |
| 9.5 Prime lending Rate of SBI as on April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   |       |   |            |                |                |  |
| 9.5 April' 2017  10.1 Type  10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.4   |   | %          | Not Applicable | Not Applicable |  |
| 10.2 Installed Capacity (Bo of Units x MW)  10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 9.5   |   | %          | 13.80%         | 12.90%         |  |
| MW) Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)  | 10.1  | Туре  |            |                |                |  |
| 10.3 Peaking capacity during lean period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2  | Installed Capacity (Bo of Units x   | VW/        | 30             | 30             |  |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2  | MW)   | IV.W       | 30             | 30             |  |
| period (MW)  10.4 Type of Turbine  10.5 Rated Head (M)   | 10.2  | Peaking capacity during lean  |            |                |                |  |
| 10.5 Rated Head (M)  | 10.3  | period (MW)   |            |                |                |  |
| 10.5 Rated Head (M)  | 10.4  | Type of Turbine   |            |                |                |  |
|  |       |   |            |                |                |  |
| 10.6 Rated Discharge (Cumes)   |       | ` ′   |            |                |                |  |

Name of the Hydro Generating Station : Mati Nallah State/ Distt. Arunachal Pradesh/ Anjaw District

| Detai | Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |            |                |                |  |
|-------|---|------------|----------------|----------------|--|
| (NAI  | ,   |            |                |                |  |
|       | & other normative para  | meters con |                |                |  |
| Sl.   | Description   | Unit       | 2019-20        | 2020-21        |  |
| No.   | Description   | Omi        | (Estimated)    | (Projected)    |  |
| 1     | Installed Capacity  | KW         | 500            | 500            |  |
| 2     | Free Power to home state  | %          | NIL            | NIL            |  |
| 3     | Date of commercial operation  |            |                |                |  |
|       | Unit – 1  |            |                |                |  |
|       | Unit – 2  |            |                |                |  |
| 4     | Type of Station   |            |                |                |  |
|       | a) Surface/ underground   |            |                |                |  |
|       | b) Purely ROR/ Pondage/ Storage   |            |                |                |  |
|       | c) Peaking/ non-peaking   |            |                |                |  |
|       | d) No of hours of peaking   |            |                |                |  |
|       | e) Overload capacity (MW) &   |            |                |                |  |
|       | period  |            |                |                |  |
| 5     | Type of excitation  |            |                |                |  |
|       | a) Rotating exciters on generator   |            |                |                |  |
|       | b) Static excitation  |            |                |                |  |
| 6     | Design Energy (Annual)  | Mus        | 4.16           | 4.16           |  |
| 7     | Auxiliary Consumption including Transformation losses                               | %          | 1.00%          | 1.00%          |  |
| 8     | Normative Plant Availability<br>Factor (NAPAF)                                      | %          |                |                |  |
| 0.1   | M · 4 C C WC  | Rs.        |                |                |  |
| 9.1   | Maintenance Spares for WC   | Lakh       |                |                |  |
| 9.2   | Receivable for WC   | R. Lakh    |                |                |  |
| 9.3   | Base Rate of return on equity   | %          | 14             | 14             |  |
| 9.4   | Tax Rate  | %          | Not Applicable | Not Applicable |  |
| 9.5   | Prime lending Rate of SBI as on April' 2017   | %          | 13.80%         | 12.90%         |  |
| 10.1  | Туре  |            |                |                |  |
| 10.2  | Installed Capacity (Bo of Units x MW)   | KW         | 500            | 500            |  |
| 10.3  | Peaking capacity during lean period (MW)  |            |                |                |  |
|       | Type of Turbine   |            |                |                |  |
|       | Rated Head (M)  |            |                |                |  |
| 10.6  | Rated Discharge (Cumes)   |            |                |                |  |

Name of the Hydro Generating Station : Yapak Nallah State/ Distt. Arunachal Pradesh/ Anjaw District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Description Unit No. (Estimated) (Projected) Installed Capacity 1 KW 200 200 2 Free Power to home state NIL NIL % Date of commercial operation Unit - 24 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 1.66 1.66 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 200 200 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Teepani State/ Distt. Arunachal Pradesh/ Anjaw District

| Detail | s of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A | vailability Factor |
|--------|-----------------------------------|------------|-----------------|--------------------|
| (NAP   | /                                 |            |                 |                    |
|        | & other normative para            | meters con |                 | f                  |
| Sl.    | Description                       | Unit       | 2019-20         | 2020-21            |
| No.    |                                   | Omi        | (Estimated)     | (Projected)        |
|        | Installed Capacity                | KW         | 500             | 500                |
|        | Free Power to home state          | %          | NIL             | NIL                |
| 3 1    | Date of commercial operation      |            |                 |                    |
|        | Unit – 1                          |            |                 |                    |
|        | Unit – 2                          |            |                 |                    |
| 4      | Type of Station                   |            |                 |                    |
| í      | a) Surface/ underground           |            |                 |                    |
| 1      | b) Purely ROR/ Pondage/ Storage   |            |                 |                    |
| C      | c) Peaking/ non-peaking           |            |                 |                    |
| (      | d) No of hours of peaking         |            |                 |                    |
| •      | e) Overload capacity (MW) &       |            |                 |                    |
| l l    | period                            |            |                 |                    |
| 5      | Type of excitation                |            |                 |                    |
| í      | a) Rotating exciters on generator |            |                 |                    |
| 1      | b) Static excitation              |            |                 |                    |
| 6 ]    | Design Energy (Annual)            | Mus        | 4.16            | 4.16               |
| 7      | Auxiliary Consumption including   | %          | 1.00%           | 1.00%              |
|        | Transformation losses             | 70         | 1.0070          | 1.0070             |
| 8 ]    | Normative Plant Availability      | %          |                 |                    |
| _ ° ]  | Factor (NAPAF)                    | 70         |                 |                    |
| 9.1    | Maintenance Spares for WC         | Rs.        |                 |                    |
| 9.1    | Wantenance Spares for WC          | Lakh       |                 |                    |
| 9.2    | Receivable for WC                 | R. Lakh    |                 |                    |
| 9.3    | Base Rate of return on equity     | %          | 14              | 14                 |
| 9.4    | Tax Rate                          | %          | Not Applicable  | Not Applicable     |
| 9.5    | Prime lending Rate of SBI as on   | %          | 13.80%          | 12.90%             |
| 9.5    | April' 2017                       | 70         | 13.8070         | 12.9070            |
|        | Туре                              |            |                 |                    |
|        | Installed Capacity (Bo of Units x | KW         | 500             | 500                |
| 1      | MW)                               | IX VV      | 300             | 300                |
| 10.3   | Peaking capacity during lean      |            |                 |                    |
| 10.5   | period (MW)                       |            |                 |                    |
| 10.4   | Type of Turbine                   |            |                 |                    |
| 10.5   | Rated Head (M)                    |            |                 |                    |
|        | Rated Discharge (Cumes)           |            |                 |                    |

Name of the Hydro Generating Station : Krawti Nallah State/ Distt. Arunachal Pradesh/ Anjaw District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description (Estimated) (Projected) No. Installed Capacity KW 100 100 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit - 2Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period Type of excitation a) Rotating exciters on generator b) Static excitation Design Energy (Annual) Mus 0.83 0.83 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 100 100 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Hathipani State/ Distt. Arunachal Pradesh/ Anjaw District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description No. (Estimated) (Projected) Installed Capacity 1 KW 100 100 2 Free Power to home state NIL NIL % Date of commercial operation Unit – 2 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 Not Applicable 9.4 Tax Rate % Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 100 100 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Tah Nallah State/ Distt. Arunachal Pradesh/ Anjaw District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

| (NAF | PAF)  |             | ,                 | ,              |
|------|---|-------------|-------------------|----------------|
|      | & other normative para                      | meters con  | sidered for Tarif | f              |
| Sl.  | Description                                 | T T 14      | 2019-20           | 2020-21        |
| No.  | Description                                 | Unit        | (Estimated)       | (Projected)    |
| 1    | Installed Capacity                          | KW          | 100               | 100            |
| 2    | Free Power to home state                    | %           | NIL               | NIL            |
| 3    | Date of commercial operation                |             |                   |                |
|      | Unit – 1                                    |             |                   |                |
|      | Unit – 2                                    |             |                   |                |
| 4    | Type of Station                             |             |                   |                |
|      | a) Surface/ underground                     |             |                   |                |
|      | b) Purely ROR/ Pondage/ Storage             |             |                   |                |
|      | c) Peaking/ non-peaking                     |             |                   |                |
|      | d) No of hours of peaking                   |             |                   |                |
|      | e) Overload capacity (MW) &                 |             |                   |                |
|      | period                                      |             |                   |                |
| 5    | Type of excitation                          |             |                   |                |
|      | a) Rotating exciters on generator           |             |                   |                |
|      | b) Static excitation                        |             |                   |                |
| 6    | Design Energy (Annual)                      | Mus         | 0.83              | 0.83           |
| 7    | Auxiliary Consumption including             | %           | 1.00%             | 1.00%          |
| /    | Transformation losses                       | 70          | 1.0070            | 1.0070         |
| 8    | Normative Plant Availability                | %           |                   |                |
| 0    | Factor (NAPAF)                              | /0          |                   |                |
| 9.1  | Maintenance Spares for WC                   | Rs.<br>Lakh |                   |                |
|      | Receivable for WC                           | R. Lakh     |                   |                |
| 9.3  | Base Rate of return on equity               | %           | 14                | 14             |
| 9.4  | Tax Rate                                    | %           | Not Applicable    | Not Applicable |
| 9.5  | Prime lending Rate of SBI as on April' 2017 | %           | 13.80%            | 12.90%         |
| 10.1 | Туре  |             |                   |                |
| 10.2 | Installed Capacity (Bo of Units x MW)       | KW          | 100               | 100            |
| 10.3 | Peaking capacity during lean period (MW)    |             |                   |                |
| 10.4 | Type of Turbine                             |             |                   |                |
| 10.5 | Rated Head (M)                              |             |                   |                |
| 10.6 | Rated Discharge (Cumes)                     |             |                   |                |

Name of the Hydro Generating Station : Maipani State/ Distt. Arunachal Pradesh/ Anjaw District

| Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor |   |            |                        |                        |
|---|---|------------|------------------------|------------------------|
| (NAF  | ,   | 4          | -: 1 1 £ T:£           | C                      |
| CI  | & other normative para                                | meters con |                        |                        |
| Sl.<br>No.  | Description   | Unit       | 2019-20<br>(Estimated) | 2020-21<br>(Projected) |
| 1   | Installed Capacity                                    | KW         | 60                     | 60                     |
| 2   | Free Power to home state                              | %          | NIL                    | NIL                    |
| 3   | Date of commercial operation                          | , ,        |                        |                        |
|   | Unit – 1  |            |                        |                        |
|   | Unit – 2  |            |                        |                        |
| 4   | Type of Station                                       |            |                        |                        |
|   | a) Surface/ underground                               |            |                        |                        |
|   | b) Purely ROR/ Pondage/ Storage                       |            |                        |                        |
|   | c) Peaking/ non-peaking                               |            |                        |                        |
|   | d) No of hours of peaking                             |            |                        |                        |
|   | e) Overload capacity (MW) &                           |            |                        |                        |
|   | period  |            |                        |                        |
| 5   | Type of excitation                                    |            |                        |                        |
|   | a) Rotating exciters on generator                     |            |                        |                        |
|   | b) Static excitation                                  |            |                        |                        |
| 6   | Design Energy (Annual)                                | Mus        | 0.50                   | 0.50                   |
| 7   | Auxiliary Consumption including Transformation losses | %          | 1.00%                  | 1.00%                  |
| 8   | Normative Plant Availability<br>Factor (NAPAF)        | %          |                        |                        |
| 9.1   | Maintananaa Sparas for WC                             | Rs.        |                        |                        |
| 9.1   | Maintenance Spares for WC                             | Lakh       |                        |                        |
| 9.2   | Receivable for WC                                     | R. Lakh    |                        |                        |
| 9.3   | Base Rate of return on equity                         | %          | 14                     | 14                     |
| 9.4   | Tax Rate  | %          | Not Applicable         | Not Applicable         |
| 9.5   | Prime lending Rate of SBI as on April' 2017           | %          | 13.80%                 | 12.90%                 |
| 10.1  | Туре  |            |                        |                        |
| 10.2  | Installed Capacity (Bo of Units x MW)                 | KW         | 60                     | 60                     |
| 10.3  | Peaking capacity during lean period (MW)              |            |                        |                        |
| 10.4  | Type of Turbine                                       |            |                        |                        |
|   | Rated Head (M)  |            |                        |                        |
| 10.6  | Rated Discharge (Cumes)                               |            |                        |                        |

Name of the Hydro Generating Station : Ashapani State/ Distt. Arunachal Pradesh/ Anjaw District

| Detai      | ls of Cod, Type of Hydro Stations,                       | Normative   | Annual Plant, A        | vailability Factor     |
|------------|--|-------------|------------------------|------------------------|
| (NAF       | ,  |             |                        |                        |
|            | & other normative para                                   | meters cor  | sidered for Tarif      |                        |
| Sl.<br>No. | Description  | Unit        | 2019-20<br>(Estimated) | 2020-21<br>(Projected) |
| 1          | Installed Capacity                                       | KW          | 60                     | 60                     |
| 2          | Free Power to home state                                 | %           | NIL                    | NIL                    |
| 3          | Date of commercial operation                             | 70          | TVIL                   | TVIL                   |
|            | Unit – 1   |             |                        |                        |
|            | Unit – 2   |             |                        |                        |
| 4          | Type of Station  |             |                        |                        |
|            | a) Surface/ underground                                  |             |                        |                        |
|            | b) Purely ROR/ Pondage/ Storage                          |             |                        |                        |
|            | c) Peaking/ non-peaking                                  |             |                        |                        |
|            | d) No of hours of peaking                                |             |                        |                        |
|            | e) Overload capacity (MW) &                              |             |                        |                        |
|            | period   |             |                        |                        |
| 5          | Type of excitation                                       |             |                        |                        |
|            | a) Rotating exciters on generator                        |             |                        |                        |
|            | b) Static excitation                                     |             | 1                      |                        |
| 6          | Design Energy (Annual)                                   | Mus         | 0.50                   | 0.50                   |
| 7          | Auxiliary Consumption including<br>Transformation losses | %           | 1.00%                  | 1.00%                  |
| 8          | Normative Plant Availability Factor (NAPAF)              | %           |                        |                        |
| 9.1        | Maintenance Spares for WC                                | Rs.<br>Lakh |                        |                        |
| 9.2        | Receivable for WC  | R. Lakh     |                        |                        |
| 9.3        | Base Rate of return on equity                            | %           | 14                     | 14                     |
| 9.4        | Tax Rate   | %           | Not Applicable         | Not Applicable         |
| 9.5        | Prime lending Rate of SBI as on<br>April' 2017           | %           | 13.80%                 | 12.90%                 |
| 10.1       | Туре   |             |                        |                        |
| 10.2       | Installed Capacity (Bo of Units x MW)                    | KW          | 60                     | 60                     |
| 10.3       | Peaking capacity during lean period (MW)                 |             |                        |                        |
|            | Type of Turbine  |             |                        |                        |
|            | Rated Head (M)   |             |                        |                        |
| 10.6       | Rated Discharge (Cumes)                                  |             |                        |                        |

Name of the Hydro Generating Station : Langpani State/ Distt. Arunachal Pradesh/ Anjaw District

| (NAPAF)  | Deta | ils of Cod, Type of Hydro Stations, | Normative  | Annual Plant, A | vailability Factor |
|--|------|-------------------------------------|------------|-----------------|--------------------|
| SI.   Description   Unit   2019-20 (Estimated) (Projected)     Installed Capacity   KW   400   400     2 Free Power to home state   %   NIL   NIL     3 Date of commercial operation   Unit - 1     Unit - 2   | (NAI | /                                   |            |                 |                    |
| No. Description Unit (Estimated) (Projected)  1 Installed Capacity KW 400 400  2 Free Power to home state % NIL NIL  3 Date of commercial operation  Unit - 1  Unit - 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  e) Overload capacity (MW) & period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual) Mus 3.33 3.33  7 Auxiliary Consumption including |      | & other normative para              | meters cor |                 |                    |
| No.   (Estimated) (Projected)  1 Installed Capacity   KW   400   400  2 Free Power to home state   %   NIL   NIL    3 Date of commercial operation   Unit - 1  |      | Description                         | ∐nit       |                 |                    |
| 2 Free Power to home state  % NIL NIL 3 Date of commercial operation  Unit - 1  Unit - 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  e) Overload capacity (MW) & period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual)  Mus  3.33  3.33  Auxiliary Consumption including   | No.  | Description                         | Omi        | (Estimated)     | (Projected)        |
| 3 Date of commercial operation  Unit - 1  Unit - 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  e) Overload capacity (MW) & period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual)  Mus  3.33  3.33  Auxiliary Consumption including   | 1    | Installed Capacity                  | KW         | 400             | 400                |
| Unit – 1 Unit – 2  4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including  | 2    | Free Power to home state            | %          | NIL             | NIL                |
| Unit – 2  4 Type of Station  a) Surface/ underground  b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking  d) No of hours of peaking  e) Overload capacity (MW) & period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual)  Mus  3.33  3.33  Auxiliary Consumption including   | 3    | Date of commercial operation        |            |                 |                    |
| 4 Type of Station a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including  |      | Unit – 1                            |            |                 |                    |
| a) Surface/ underground b) Purely ROR/ Pondage/ Storage c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including   |      | Unit – 2                            |            |                 |                    |
| b) Purely ROR/ Pondage/ Storage  c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including  | 4    | Type of Station                     |            |                 |                    |
| c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including   |      | a) Surface/ underground             |            |                 |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including   |      | b) Purely ROR/ Pondage/ Storage     |            |                 |                    |
| d) No of hours of peaking e) Overload capacity (MW) & period  5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including   |      | c) Peaking/ non-peaking             |            |                 |                    |
| period  5 Type of excitation  a) Rotating exciters on generator  b) Static excitation  6 Design Energy (Annual)  Auxiliary Consumption including  y/2 1,00%  1,00%   |      | d) No of hours of peaking           |            |                 |                    |
| 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including 9/2 1,00% 1,00%   |      | e) Overload capacity (MW) &         |            |                 |                    |
| a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 3.33 3.33 7 Auxiliary Consumption including  |      | period                              |            |                 |                    |
| b) Static excitation  6 Design Energy (Annual)  7 Auxiliary Consumption including  9/2 1,00%  1,00%  | 5    | Type of excitation                  |            |                 |                    |
| b) Static excitation  6 Design Energy (Annual)  7 Auxiliary Consumption including  9/2 1,00%  1,00%  |      | a) Rotating exciters on generator   |            |                 |                    |
| 7 Auxiliary Consumption including % 1 00% 1 00%  |      | b) Static excitation                |            | 1               |                    |
|  | 6    | Design Energy (Annual)              | Mus        | 3.33            | 3.33               |
| / Transformation losses   %   1.00%   1.00%  | 7    | Auxiliary Consumption including     | 0/         | 1.000/          | 1 000/             |
| 11411510111441011 105505   | /    | Transformation losses               | %0         | 1.00%           | 1.00%              |
| 8 Normative Plant Availability %   | 0    | Normative Plant Availability        | 0/         |                 |                    |
| Factor (NAPAF)   | 8    | Factor (NAPAF)                      | %0         |                 |                    |
| Rs.  | 0.1  | Maintanana Suama fan WC             | Rs.        |                 |                    |
| 9.1 Maintenance Spares for WC Lakh   | 9.1  | Wallienance Spares for WC           | Lakh       |                 |                    |
| 9.2 Receivable for WC R. Lakh  | 9.2  | Receivable for WC                   | R. Lakh    |                 |                    |
| 9.3 Base Rate of return on equity % 14 14  | 9.3  | Base Rate of return on equity       | %          | 14              | 14                 |
| 9.4 Tax Rate % Not Applicable Not Applicable   | 9.4  | Tax Rate                            | %          | Not Applicable  | Not Applicable     |
| 9.5 Prime lending Rate of SBI as on % 13.80% 12.90%  | 0.5  | Prime lending Rate of SBI as on     | 0/-        | 12 900/         | 12 000/            |
| 9.5 April' 2017 % 13.80% 12.90%  | 9.3  | April' 2017                         | 70         | 13.8070         | 12.7070            |
| 10.1 Type  | 10.1 | * 1                                 |            |                 |                    |
| 10.2 Installed Capacity (Bo of Units x KW 400 400  | 10.2 | ž ,                                 | KW         | 400             | 400                |
| MW)  | 10.2 | MW)                                 | 17.44      | 700             | 700                |
| 10.3 Peaking capacity during lean  | 10.2 |                                     |            |                 |                    |
| period (MW)  |      | period (MW)                         |            |                 |                    |
| 10.4 Type of Turbine   | 10.4 | Type of Turbine                     |            |                 |                    |
| 10.5 Rated Head (M)  | 10.5 | Rated Head (M)                      |            |                 |                    |
| 10.6 Rated Discharge (Cumes)   | 10.6 | Rated Discharge (Cumes)             |            |                 |                    |

Name of the Hydro Generating Station: Kachopani MHS State/ Distt. Arunachal Pradesh/ Anjaw District

Details of Cod. Type of Hydro Stations. Normative Appua

| Detai | ls of Cod, Type of Hydro Stations,             | Normative  | Annual Plant, A   | vailability Factor |
|-------|--|------------|-------------------|--------------------|
| (NAF  | PAF)   |            |                   |                    |
|       | & other normative para                         | meters con | sidered for Tarif | f                  |
| Sl.   | Description                                    | T T 14     | 2019-20           | 2020-21            |
| No.   | Description                                    | Unit       | (Estimated)       | (Projected)        |
| 1     | Installed Capacity                             | KW         | 200               | 200                |
| 2     | Free Power to home state                       | %          | NIL               | NIL                |
| 3     | Date of commercial operation                   |            |                   |                    |
|       | Unit – 1                                       |            |                   |                    |
|       | Unit – 2                                       |            |                   |                    |
| 4     | Type of Station                                |            |                   |                    |
|       | a) Surface/ underground                        |            |                   |                    |
|       | b) Purely ROR/ Pondage/ Storage                |            |                   |                    |
|       | c) Peaking/ non-peaking                        |            |                   |                    |
|       | d) No of hours of peaking                      |            |                   |                    |
|       | e) Overload capacity (MW) &                    |            |                   |                    |
|       | period   |            |                   |                    |
| 5     | Type of excitation                             |            |                   |                    |
|       | a) Rotating exciters on generator              |            |                   |                    |
|       | b) Static excitation                           |            |                   |                    |
| 6     | Design Energy (Annual)                         | Mus        | 1.66              | 1.66               |
| 7     | Auxiliary Consumption including                | 0/         | 1.000/            | 1.000/             |
| 7     | Transformation losses                          | %          | 1.00%             | 1.00%              |
| 8     | Normative Plant Availability                   | %          |                   |                    |
|       | Factor (NAPAF)                                 | D          |                   |                    |
| 9.1   | Maintenance Spares for WC                      | Rs.        |                   |                    |
| 0.0   |  | Lakh       |                   |                    |
|       | Receivable for WC                              | R. Lakh    | 1.4               | 1.4                |
| 9.3   | Base Rate of return on equity                  | %          | 14                | 14                 |
| 9.4   | Tax Rate                                       | %          | Not Applicable    | Not Applicable     |
| 9.5   | Prime lending Rate of SBI as on<br>April' 2017 | %          | 13.80%            | 12.90%             |
| 10.1  | Туре   |            |                   |                    |
| 10.2  | Installed Capacity (Bo of Units x MW)          | KW         | 200               | 200                |
| 10.3  | Peaking capacity during lean                   |            |                   |                    |
|       | period (MW)                                    |            |                   |                    |
|       | Type of Turbine                                |            |                   |                    |
|       | Rated Head (M)                                 |            |                   |                    |
| 10.6  | Rated Discharge (Cumes)                        |            |                   |                    |

## Name of the Hydro Generation Station: Chellengkang Ph-I DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

## Name of the Hydro Generation Station: Chellengkang Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

### Name of the Hydro Generation Station: Shakti Nallah

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

#### Name of the Hydro Generation Station: Thimbu

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

#### Name of the Hydro Generation Station: Khet

## DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Tsechu Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

#### Name of the Hydro Generation Station: Mago MHS

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

#### Name of the Hydro Generation Station: Nuranang

## DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 6000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 4.10                |               |
| 2      | May       | 4.24                |               |
| 3      | June      | 4.10                |               |
| 4      | July      | 4.24                |               |
| 5      | August    | 4.24                |               |
| 6      | September | 4.10                |               |
| 7      | October   | 4.24                |               |
| 8      | November  | 4.10                |               |
| 9      | December  | 4.24                |               |
| 10     | January   | 4.24                |               |
| 11     | February  | 3.83                |               |
| 12     | March     | 4.24                |               |

#### Name of the Hydro Generation Station: Kitpi Ph-I

## DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 1500

| S. No. | Month     | Design Energy (Mus) | KW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.03                |               |
| 2      | May       | 1.06                |               |
| 3      | June      | 1.03                |               |
| 4      | July      | 1.06                |               |
| 5      | August    | 1.06                |               |
| 6      | September | 1.03                |               |
| 7      | October   | 1.06                |               |
| 8      | November  | 1.03                |               |
| 9      | December  | 1.06                |               |
| 10     | January   | 1.06                |               |
| 11     | February  | 0.96                |               |
| 12     | March     | 1.06                |               |

## Name of the Hydro Generation Station: Kitpi MHS Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 3000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 2.05                |               |
| 2      | May       | 2.12                |               |
| 3      | June      | 2.05                |               |
| 4      | July      | 2.12                |               |
| 5      | August    | 2.12                |               |
| 6      | September | 2.05                |               |
| 7      | October   | 2.12                |               |
| 8      | November  | 2.05                |               |
| 9      | December  | 2.12                |               |
| 10     | January   | 2.12                |               |
| 11     | February  | 1.92                |               |
| 12     | March     | 2.12                |               |

#### Name of the Hydro Generation Station: T. Gompa

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

#### Name of the Hydro Generation Station: Bongleng

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Bramdhongchung DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Bramdhongchung Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

# Name of the Hydro Generation Station: Mukto MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 6000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 4.10                |               |
| 2      | May       | 4.24                |               |
| 3      | June      | 4.10                |               |
| 4      | July      | 4.24                |               |
| 5      | August    | 4.24                |               |
| 6      | September | 4.10                |               |
| 7      | October   | 4.24                |               |
| 8      | November  | 4.10                |               |
| 9      | December  | 4.24                |               |
| 10     | January   | 4.24                |               |
| 11     | February  | 3.83                |               |
| 12     | March     | 4.24                |               |

# Name of the Hydro Generation Station: Nuranang Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 1000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.68                |               |
| 2      | May       | 0.71                |               |
| 3      | June      | 0.68                |               |
| 4      | July      | 0.71                |               |
| 5      | August    | 0.71                |               |
| 6      | September | 0.68                |               |
| 7      | October   | 0.71                |               |
| 8      | November  | 0.68                |               |
| 9      | December  | 0.71                |               |
| 10     | January   | 0.71                |               |
| 11     | February  | 0.64                |               |
| 12     | March     | 0.71                |               |

#### Name of the Hydro Generation Station: Rahung

## DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 750

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.51                |               |
| 2      | May       | 0.53                |               |
| 3      | June      | 0.51                |               |
| 4      | July      | 0.53                |               |
| 5      | August    | 0.53                |               |
| 6      | September | 0.51                |               |
| 7      | October   | 0.53                |               |
| 8      | November  | 0.51                |               |
| 9      | December  | 0.53                |               |
| 10     | January   | 0.53                |               |
| 11     | February  | 0.48                |               |
| 12     | March     | 0.53                |               |

#### Name of the Hydro Generation Station: Dirang

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 2000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.37                |               |
| 2      | May       | 1.41                |               |
| 3      | June      | 1.37                |               |
| 4      | July      | 1.41                |               |
| 5      | August    | 1.41                |               |
| 6      | September | 1.37                |               |
| 7      | October   | 1.41                |               |
| 8      | November  | 1.37                |               |
| 9      | December  | 1.41                |               |
| 10     | January   | 1.41                |               |
| 11     | February  | 1.28                |               |
| 12     | March     | 1.41                |               |

# Name of the Hydro Generation Station: Saktangrong MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 300

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.21                |               |
| 2      | May       | 0.21                |               |
| 3      | June      | 0.21                |               |
| 4      | July      | 0.21                |               |
| 5      | August    | 0.21                |               |
| 6      | September | 0.21                |               |
| 7      | October   | 0.21                |               |
| 8      | November  | 0.21                |               |
| 9      | December  | 0.21                |               |
| 10     | January   | 0.21                |               |
| 11     | February  | 0.19                |               |
| 12     | March     | 0.21                |               |

## Name of the Hydro Generation Station: Zhongdongrong DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 1000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.68                |               |
| 2      | May       | 0.71                |               |
| 3      | June      | 0.68                |               |
| 4      | July      | 0.71                |               |
| 5      | August    | 0.71                |               |
| 6      | September | 0.68                |               |
| 7      | October   | 0.71                |               |
| 8      | November  | 0.68                |               |
| 9      | December  | 0.71                |               |
| 10     | January   | 0.71                |               |
| 11     | February  | 0.64                |               |
| 12     | March     | 0.71                |               |

#### Name of the Hydro Generation Station: Sessa

## DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 1500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.03                |               |
| 2      | May       | 1.06                |               |
| 3      | June      | 1.03                |               |
| 4      | July      | 1.06                |               |
| 5      | August    | 1.06                |               |
| 6      | September | 1.03                |               |
| 7      | October   | 1.06                |               |
| 8      | November  | 1.03                |               |
| 9      | December  | 1.06                |               |
| 10     | January   | 1.06                | •             |
| 11     | February  | 0.96                | •             |
| 12     | March     | 1.06                | •             |

#### Name of the Hydro Generation Station: Rupa

## DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 200

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.14                |               |
| 2      | May       | 0.14                |               |
| 3      | June      | 0.14                |               |
| 4      | July      | 0.14                |               |
| 5      | August    | 0.14                |               |
| 6      | September | 0.14                |               |
| 7      | October   | 0.14                |               |
| 8      | November  | 0.14                |               |
| 9      | December  | 0.14                |               |
| 10     | January   | 0.14                |               |
| 11     | February  | 0.13                |               |
| 12     | March     | 0.14                |               |

### Name of the Hydro Generation Station: Dokumpani

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

#### Name of the Hydro Generation Station: Domkhrong

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 2000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.37                |               |
| 2      | May       | 1.41                |               |
| 3      | June      | 1.37                |               |
| 4      | July      | 1.41                |               |
| 5      | August    | 1.41                |               |
| 6      | September | 1.37                |               |
| 7      | October   | 1.41                |               |
| 8      | November  | 1.37                |               |
| 9      | December  | 1.41                |               |
| 10     | January   | 1.41                |               |
| 11     | February  | 1.28                |               |
| 12     | March     | 1.41                |               |

#### Name of the Hydro Generation Station: Sinchung

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

#### Name of the Hydro Generation Station: Ankaling

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

#### Name of the Hydro Generation Station: Dikshi

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                | •             |
| 11     | February  | 0.02                | •             |
| 12     | March     | 0.02                | •             |

#### Name of the Hydro Generation Station: Khadiyabey

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 200

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.14                |               |
| 2      | May       | 0.14                |               |
| 3      | June      | 0.14                |               |
| 4      | July      | 0.14                |               |
| 5      | August    | 0.14                |               |
| 6      | September | 0.14                |               |
| 7      | October   | 0.14                |               |
| 8      | November  | 0.14                |               |
| 9      | December  | 0.14                |               |
| 10     | January   | 0.14                |               |
| 11     | February  | 0.13                |               |
| 12     | March     | 0.14                |               |

### Name of the Hydro Generation Station: Jigaon

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Seppa

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 300

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.21                |               |
| 2      | May       | 0.21                |               |
| 3      | June      | 0.21                |               |
| 4      | July      | 0.21                |               |
| 5      | August    | 0.21                |               |
| 6      | September | 0.21                |               |
| 7      | October   | 0.21                |               |
| 8      | November  | 0.21                |               |
| 9      | December  | 0.21                |               |
| 10     | January   | 0.21                |               |
| 11     | February  | 0.19                |               |
| 12     | March     | 0.21                |               |

## Name of the Hydro Generation Station: Pakke Kessang DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

# Name of the Hydro Generation Station: Pacha MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 3000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 2.05                |               |
| 2      | May       | 2.12                |               |
| 3      | June      | 2.05                |               |
| 4      | July      | 2.12                |               |
| 5      | August    | 2.12                |               |
| 6      | September | 2.05                |               |
| 7      | October   | 2.12                |               |
| 8      | November  | 2.05                |               |
| 9      | December  | 2.12                |               |
| 10     | January   | 2.12                |               |
| 11     | February  | 1.92                |               |
| 12     | March     | 2.12                |               |

### Name of the Hydro Generation Station: Pakoti

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Patta Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE

#### **STATIONS**

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Watte Mame DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                | ·             |
| 11     | February  | 0.03                | ·             |
| 12     | March     | 0.04                |               |

## Name of the Hydro Generation Station: Kade Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE

**STATIONS** 

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

### Name of the Hydro Generation Station: Koye

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

## Name of the Hydro Generation Station: Paya MHS at Hiya DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Kidding MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

### Name of the Hydro Generation Station: Dumi Dutte

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                | ·             |
| 11     | February  | 0.02                | ·             |
| 12     | March     | 0.02                | •             |

# Name of the Hydro Generation Station: Payu MHS at Koloriang DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 1000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.68                |               |
| 2      | May       | 0.71                |               |
| 3      | June      | 0.68                |               |
| 4      | July      | 0.71                |               |
| 5      | August    | 0.71                |               |
| 6      | September | 0.68                |               |
| 7      | October   | 0.71                |               |
| 8      | November  | 0.68                |               |
| 9      | December  | 0.71                |               |
| 10     | January   | 0.71                |               |
| 11     | February  | 0.64                |               |
| 12     | March     | 0.71                |               |

## Name of the Hydro Generation Station: Patte MHS at Tali DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

### Name of the Hydro Generation Station: Chambang

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                | ·             |
| 11     | February  | 0.02                | •             |
| 12     | March     | 0.02                | •             |

### Name of the Hydro Generation Station: Mai PH-I

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 2000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.37                |               |
| 2      | May       | 1.41                |               |
| 3      | June      | 1.37                |               |
| 4      | July      | 1.41                |               |
| 5      | August    | 1.41                |               |
| 6      | September | 1.37                |               |
| 7      | October   | 1.41                |               |
| 8      | November  | 1.37                |               |
| 9      | December  | 1.41                |               |
| 10     | January   | 1.41                |               |
| 11     | February  | 1.28                |               |
| 12     | March     | 1.41                |               |

### Name of the Hydro Generation Station: Mai PH-II

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 1000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.68                |               |
| 2      | May       | 0.71                |               |
| 3      | June      | 0.68                |               |
| 4      | July      | 0.71                |               |
| 5      | August    | 0.71                |               |
| 6      | September | 0.68                |               |
| 7      | October   | 0.71                |               |
| 8      | November  | 0.68                |               |
| 9      | December  | 0.71                |               |
| 10     | January   | 0.71                |               |
| 11     | February  | 0.64                |               |
| 12     | March     | 0.71                |               |

### Name of the Hydro Generation Station: Tago

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 4500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 3.08                |               |
| 2      | May       | 3.18                |               |
| 3      | June      | 3.08                |               |
| 4      | July      | 3.18                |               |
| 5      | August    | 3.18                |               |
| 6      | September | 3.08                |               |
| 7      | October   | 3.18                |               |
| 8      | November  | 3.08                |               |
| 9      | December  | 3.18                |               |
| 10     | January   | 3.18                |               |
| 11     | February  | 2.87                |               |
| 12     | March     | 3.18                |               |

### Name of the Hydro Generation Station: Maro

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

### Name of the Hydro Generation Station: Sippi

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 4000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 2.74                |               |
| 2      | May       | 2.83                |               |
| 3      | June      | 2.74                |               |
| 4      | July      | 2.83                |               |
| 5      | August    | 2.83                |               |
| 6      | September | 2.74                |               |
| 7      | October   | 2.83                |               |
| 8      | November  | 2.74                |               |
| 9      | December  | 2.83                |               |
| 10     | January   | 2.83                | •             |
| 11     | February  | 2.55                | •             |
| 12     | March     | 2.83                |               |

## Name of the Hydro Generation Station: Pinto Karo MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 25

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

### Name of the Hydro Generation Station: Sikin Koro

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 200

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.14                |               |
| 2      | May       | 0.14                |               |
| 3      | June      | 0.14                |               |
| 4      | July      | 0.14                |               |
| 5      | August    | 0.14                |               |
| 6      | September | 0.14                |               |
| 7      | October   | 0.14                |               |
| 8      | November  | 0.14                |               |
| 9      | December  | 0.14                |               |
| 10     | January   | 0.14                |               |
| 11     | February  | 0.13                |               |
| 12     | March     | 0.14                |               |

## Name of the Hydro Generation Station: Sinyum Koro DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Dulom (Daporijo)

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 400

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.27                |               |
| 2      | May       | 0.28                |               |
| 3      | June      | 0.27                |               |
| 4      | July      | 0.28                |               |
| 5      | August    | 0.28                |               |
| 6      | September | 0.27                |               |
| 7      | October   | 0.28                |               |
| 8      | November  | 0.27                |               |
| 9      | December  | 0.28                |               |
| 10     | January   | 0.28                |               |
| 11     | February  | 0.26                |               |
| 12     | March     | 0.28                |               |

## Name of the Hydro Generation Station: Ayingmuri MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 250

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.17                |               |
| 2      | May       | 0.18                |               |
| 3      | June      | 0.17                |               |
| 4      | July      | 0.18                |               |
| 5      | August    | 0.18                |               |
| 6      | September | 0.17                |               |
| 7      | October   | 0.18                |               |
| 8      | November  | 0.17                |               |
| 9      | December  | 0.18                |               |
| 10     | January   | 0.18                |               |
| 11     | February  | 0.16                |               |
| 12     | March     | 0.18                |               |

## Name of the Hydro Generation Station: Limeking MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

### Name of the Hydro Generation Station: Kojin Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE

#### **STATIONS**

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Pagi (Basar)

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Along

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 400

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.27                |               |
| 2      | May       | 0.28                |               |
| 3      | June      | 0.27                |               |
| 4      | July      | 0.28                |               |
| 5      | August    | 0.28                |               |
| 6      | September | 0.27                |               |
| 7      | October   | 0.28                |               |
| 8      | November  | 0.27                |               |
| 9      | December  | 0.28                |               |
| 10     | January   | 0.28                |               |
| 11     | February  | 0.26                |               |
| 12     | March     | 0.28                |               |

### Name of the Hydro Generation Station: Ego-Echi (Dali) DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE **STATIONS**

Installed Capacity: No. of Units X.KW = 400

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.27                |               |
| 2      | May       | 0.28                |               |
| 3      | June      | 0.27                |               |
| 4      | July      | 0.28                |               |
| 5      | August    | 0.28                |               |
| 6      | September | 0.27                |               |
| 7      | October   | 0.28                |               |
| 8      | November  | 0.27                |               |
| 9      | December  | 0.28                |               |
| 10     | January   | 0.28                |               |
| 11     | February  | 0.26                |               |
| 12     | March     | 0.28                |               |

### Name of the Hydro Generation Station: Mechuka

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 150

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.10                |               |
| 2      | May       | 0.11                |               |
| 3      | June      | 0.10                |               |
| 4      | July      | 0.11                |               |
| 5      | August    | 0.11                |               |
| 6      | September | 0.10                |               |
| 7      | October   | 0.11                |               |
| 8      | November  | 0.10                |               |
| 9      | December  | 0.11                |               |
| 10     | January   | 0.11                |               |
| 11     | February  | 0.10                |               |
| 12     | March     | 0.11                |               |

### Name of the Hydro Generation Station: Yomcha

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

### Name of the Hydro Generation Station: Beye

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                | •             |
| 11     | February  | 0.02                | •             |
| 12     | March     | 0.02                | •             |

### Name of the Hydro Generation Station: Kambang

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 6000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 4.10                |               |
| 2      | May       | 4.24                |               |
| 3      | June      | 4.10                |               |
| 4      | July      | 4.24                |               |
| 5      | August    | 4.24                |               |
| 6      | September | 4.10                |               |
| 7      | October   | 4.24                |               |
| 8      | November  | 4.10                |               |
| 9      | December  | 4.24                |               |
| 10     | January   | 4.24                |               |
| 11     | February  | 3.83                |               |
| 12     | March     | 4.24                |               |

### Name of the Hydro Generation Station: Liromoba

### DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 2000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.37                |               |
| 2      | May       | 1.41                |               |
| 3      | June      | 1.37                |               |
| 4      | July      | 1.41                |               |
| 5      | August    | 1.41                |               |
| 6      | September | 1.37                |               |
| 7      | October   | 1.41                |               |
| 8      | November  | 1.37                |               |
| 9      | December  | 1.41                |               |
| 10     | January   | 1.41                |               |
| 11     | February  | 1.28                |               |
| 12     | March     | 1.41                |               |

## Name of the Hydro Generation Station: Yingko Sikong at Rapum DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

## Name of the Hydro Generation Station: Angu

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

# Name of the Hydro Generation Station: Solegomang MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

# Name of the Hydro Generation Station: Borung MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

# Name of the Hydro Generation Station: Sirikorang MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

# Name of the Hydro Generation Station: Yingkiong Ph-I DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 150

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.10                |               |
| 2      | May       | 0.11                |               |
| 3      | June      | 0.10                |               |
| 4      | July      | 0.11                |               |
| 5      | August    | 0.11                |               |
| 6      | September | 0.10                |               |
| 7      | October   | 0.11                |               |
| 8      | November  | 0.10                |               |
| 9      | December  | 0.11                |               |
| 10     | January   | 0.11                |               |
| 11     | February  | 0.10                |               |
| 12     | March     | 0.11                |               |

# Name of the Hydro Generation Station: Yingkiong Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 200

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.14                |               |
| 2      | May       | 0.14                |               |
| 3      | June      | 0.14                |               |
| 4      | July      | 0.14                |               |
| 5      | August    | 0.14                |               |
| 6      | September | 0.14                |               |
| 7      | October   | 0.14                |               |
| 8      | November  | 0.14                |               |
| 9      | December  | 0.14                |               |
| 10     | January   | 0.14                |               |
| 11     | February  | 0.13                |               |
| 12     | March     | 0.14                |               |

# Name of the Hydro Generation Station: Sikut/ Tuting DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE

#### **STATIONS**

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Selli at Geku DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE

**STATIONS** 

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

## Name of the Hydro Generation Station: Sirnyuk

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 2000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.37                |               |
| 2      | May       | 1.41                |               |
| 3      | June      | 1.37                |               |
| 4      | July      | 1.41                |               |
| 5      | August    | 1.41                |               |
| 6      | September | 1.37                |               |
| 7      | October   | 1.41                |               |
| 8      | November  | 1.37                |               |
| 9      | December  | 1.41                |               |
| 10     | January   | 1.41                |               |
| 11     | February  | 1.28                |               |
| 12     | March     | 1.41                |               |

# Name of the Hydro Generation Station: Kopu at Tuting DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 250

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.17                |               |
| 2      | May       | 0.18                |               |
| 3      | June      | 0.17                |               |
| 4      | July      | 0.18                |               |
| 5      | August    | 0.18                |               |
| 6      | September | 0.17                |               |
| 7      | October   | 0.18                |               |
| 8      | November  | 0.17                |               |
| 9      | December  | 0.18                |               |
| 10     | January   | 0.18                |               |
| 11     | February  | 0.16                |               |
| 12     | March     | 0.18                |               |

## Name of the Hydro Generation Station: Silingri

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

## Name of the Hydro Generation Station: Singa

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                | •             |
| 11     | February  | 0.02                | •             |
| 12     | March     | 0.02                | •             |

## Name of the Hydro Generation Station: Ngaming

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

## Name of the Hydro Generation Station: Sika

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 15

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.01                |               |
| 2      | May       | 0.01                |               |
| 3      | June      | 0.01                |               |
| 4      | July      | 0.01                |               |
| 5      | August    | 0.01                |               |
| 6      | September | 0.01                |               |
| 7      | October   | 0.01                |               |
| 8      | November  | 0.01                |               |
| 9      | December  | 0.01                |               |
| 10     | January   | 0.01                |               |
| 11     | February  | 0.01                |               |
| 12     | March     | 0.01                |               |

## Name of the Hydro Generation Station: Mayung

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 5

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.003               |               |
| 2      | May       | 0.004               |               |
| 3      | June      | 0.003               |               |
| 4      | July      | 0.004               |               |
| 5      | August    | 0.004               |               |
| 6      | September | 0.003               |               |
| 7      | October   | 0.004               |               |
| 8      | November  | 0.003               |               |
| 9      | December  | 0.004               |               |
| 10     | January   | 0.004               |               |
| 11     | February  | 0.003               |               |
| 12     | March     | 0.004               |               |

## Name of the Hydro Generation Station: Gosang

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

## Name of the Hydro Generation Station: Kote MHS

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

# Name of the Hydro Generation Station: Sijen MHS at Adi Pasi DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 50

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.04                |               |

# Name of the Hydro Generation Station: Pyabung MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 25

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

## Name of the Hydro Generation Station: Yembung

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 2000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.37                |               |
| 2      | May       | 1.41                |               |
| 3      | June      | 1.37                |               |
| 4      | July      | 1.41                |               |
| 5      | August    | 1.41                |               |
| 6      | September | 1.37                |               |
| 7      | October   | 1.41                |               |
| 8      | November  | 1.37                |               |
| 9      | December  | 1.41                |               |
| 10     | January   | 1.41                |               |
| 11     | February  | 1.28                |               |
| 12     | March     | 1.41                |               |

## Name of the Hydro Generation Station: Subbung

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 3000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 2.05                |               |
| 2      | May       | 2.12                |               |
| 3      | June      | 2.05                |               |
| 4      | July      | 2.12                |               |
| 5      | August    | 2.12                |               |
| 6      | September | 2.05                |               |
| 7      | October   | 2.12                |               |
| 8      | November  | 2.05                |               |
| 9      | December  | 2.12                |               |
| 10     | January   | 2.12                |               |
| 11     | February  | 1.92                |               |
| 12     | March     | 2.12                |               |

## Name of the Hydro Generation Station: Pasighat

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 200

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.14                |               |
| 2      | May       | 0.14                |               |
| 3      | June      | 0.14                |               |
| 4      | July      | 0.14                |               |
| 5      | August    | 0.14                |               |
| 6      | September | 0.14                |               |
| 7      | October   | 0.14                |               |
| 8      | November  | 0.14                |               |
| 9      | December  | 0.14                |               |
| 10     | January   | 0.14                |               |
| 11     | February  | 0.13                |               |
| 12     | March     | 0.14                |               |

## Name of the Hydro Generation Station: Silli

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

## Name of the Hydro Generation Station: Rina

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 2000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 1.37                |               |
| 2      | May       | 1.41                |               |
| 3      | June      | 1.37                |               |
| 4      | July      | 1.41                |               |
| 5      | August    | 1.41                |               |
| 6      | September | 1.37                |               |
| 7      | October   | 1.41                |               |
| 8      | November  | 1.37                |               |
| 9      | December  | 1.41                |               |
| 10     | January   | 1.41                |               |
| 11     | February  | 1.28                |               |
| 12     | March     | 1.41                |               |

# Name of the Hydro Generation Station: Deopani Ph-I DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 750

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.51                |               |
| 2      | May       | 0.53                |               |
| 3      | June      | 0.51                |               |
| 4      | July      | 0.53                |               |
| 5      | August    | 0.53                |               |
| 6      | September | 0.51                |               |
| 7      | October   | 0.53                |               |
| 8      | November  | 0.51                |               |
| 9      | December  | 0.53                |               |
| 10     | January   | 0.53                |               |
| 11     | February  | 0.48                |               |
| 12     | March     | 0.53                |               |

# Name of the Hydro Generation Station: Deopani Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 750

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.51                |               |
| 2      | May       | 0.53                |               |
| 3      | June      | 0.51                |               |
| 4      | July      | 0.53                |               |
| 5      | August    | 0.53                |               |
| 6      | September | 0.51                |               |
| 7      | October   | 0.53                |               |
| 8      | November  | 0.51                |               |
| 9      | December  | 0.53                |               |
| 10     | January   | 0.53                |               |
| 11     | February  | 0.48                |               |
| 12     | March     | 0.53                |               |

## Name of the Hydro Generation Station: Abhapani

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 350

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.24                |               |
| 2      | May       | 0.25                |               |
| 3      | June      | 0.24                |               |
| 4      | July      | 0.25                |               |
| 5      | August    | 0.25                |               |
| 6      | September | 0.24                |               |
| 7      | October   | 0.25                |               |
| 8      | November  | 0.24                |               |
| 9      | December  | 0.25                |               |
| 10     | January   | 0.25                |               |
| 11     | February  | 0.22                |               |
| 12     | March     | 0.25                |               |

# Name of the Hydro Generation Station: Anini/ Awapani Ph-I DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 150

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.10                |               |
| 2      | May       | 0.11                |               |
| 3      | June      | 0.10                |               |
| 4      | July      | 0.11                |               |
| 5      | August    | 0.11                |               |
| 6      | September | 0.10                |               |
| 7      | October   | 0.11                |               |
| 8      | November  | 0.10                |               |
| 9      | December  | 0.11                |               |
| 10     | January   | 0.11                |               |
| 11     | February  | 0.10                |               |
| 12     | March     | 0.11                |               |

# Name of the Hydro Generation Station: Awapani Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

# Name of the Hydro Generation Station: Awapani at Gepuline DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

# Name of the Hydro Generation Station: Tah Ahfra Ph-I & Ph-II DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

## Name of the Hydro Generation Station: Chini Afra

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 250

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.17                |               |
| 2      | May       | 0.18                |               |
| 3      | June      | 0.17                |               |
| 4      | July      | 0.18                |               |
| 5      | August    | 0.18                |               |
| 6      | September | 0.17                |               |
| 7      | October   | 0.18                |               |
| 8      | November  | 0.17                |               |
| 9      | December  | 0.18                |               |
| 10     | January   | 0.18                |               |
| 11     | February  | 0.16                |               |
| 12     | March     | 0.18                |               |

# Name of the Hydro Generation Station: Echi Ahfra DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE

#### STATIONS

Installed Capacity: No. of Units X.KW = 400

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.27                |               |
| 2      | May       | 0.28                |               |
| 3      | June      | 0.27                |               |
| 4      | July      | 0.28                |               |
| 5      | August    | 0.28                |               |
| 6      | September | 0.27                |               |
| 7      | October   | 0.28                |               |
| 8      | November  | 0.27                |               |
| 9      | December  | 0.28                |               |
| 10     | January   | 0.28                |               |
| 11     | February  | 0.26                |               |
| 12     | March     | 0.28                |               |

# Name of the Hydro Generation Station: Echito Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 40

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.03                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.03                |               |
| 5      | August    | 0.03                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.03                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.03                |               |
| 10     | January   | 0.03                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.03                |               |

## Name of the Hydro Generation Station: Rupapani

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 40

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.03                |               |
| 2      | May       | 0.03                |               |
| 3      | June      | 0.03                |               |
| 4      | July      | 0.03                |               |
| 5      | August    | 0.03                |               |
| 6      | September | 0.03                |               |
| 7      | October   | 0.03                |               |
| 8      | November  | 0.03                |               |
| 9      | December  | 0.03                |               |
| 10     | January   | 0.03                |               |
| 11     | February  | 0.03                |               |
| 12     | March     | 0.03                |               |

## Name of the Hydro Generation Station: Chu Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE

#### **STATIONS**

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

# Name of the Hydro Generation Station: Doorah Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

### Name of the Hydro Generation Station: Tafragram

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 250

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.17                |               |
| 2      | May       | 0.18                |               |
| 3      | June      | 0.17                |               |
| 4      | July      | 0.18                |               |
| 5      | August    | 0.18                |               |
| 6      | September | 0.17                |               |
| 7      | October   | 0.18                |               |
| 8      | November  | 0.17                |               |
| 9      | December  | 0.18                |               |
| 10     | January   | 0.18                |               |
| 11     | February  | 0.16                |               |
| 12     | March     | 0.18                |               |

### Name of the Hydro Generation Station: Tissue

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 400

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.27                |               |
| 2      | May       | 0.28                |               |
| 3      | June      | 0.27                |               |
| 4      | July      | 0.28                |               |
| 5      | August    | 0.28                |               |
| 6      | September | 0.27                |               |
| 7      | October   | 0.28                |               |
| 8      | November  | 0.27                |               |
| 9      | December  | 0.28                |               |
| 10     | January   | 0.28                |               |
| 11     | February  | 0.26                |               |
| 12     | March     | 0.28                |               |

# Name of the Hydro Generation Station: Jongkey Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 25

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                |               |
| 11     | February  | 0.02                |               |
| 12     | March     | 0.02                |               |

# Name of the Hydro Generation Station: Ngonalo at Vijaynagar DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Tinning

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 60

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.04                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.04                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.04                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.04                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.04                |               |
| 12     | March     | 0.04                |               |

### Name of the Hydro Generation Station: Chicklong

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 150

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.10                |               |
| 2      | May       | 0.11                |               |
| 3      | June      | 0.10                |               |
| 4      | July      | 0.11                |               |
| 5      | August    | 0.11                |               |
| 6      | September | 0.10                |               |
| 7      | October   | 0.11                |               |
| 8      | November  | 0.10                |               |
| 9      | December  | 0.11                |               |
| 10     | January   | 0.11                |               |
| 11     | February  | 0.10                |               |
| 12     | March     | 0.11                |               |

### Name of the Hydro Generation Station: Thiratju

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 1000

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.68                |               |
| 2      | May       | 0.71                |               |
| 3      | June      | 0.68                |               |
| 4      | July      | 0.71                |               |
| 5      | August    | 0.71                |               |
| 6      | September | 0.68                |               |
| 7      | October   | 0.71                |               |
| 8      | November  | 0.68                |               |
| 9      | December  | 0.71                |               |
| 10     | January   | 0.71                |               |
| 11     | February  | 0.64                |               |
| 12     | March     | 0.71                |               |

### Name of the Hydro Generation Station: Charju

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 600

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.41                |               |
| 2      | May       | 0.42                |               |
| 3      | June      | 0.41                |               |
| 4      | July      | 0.42                |               |
| 5      | August    | 0.42                |               |
| 6      | September | 0.41                |               |
| 7      | October   | 0.42                |               |
| 8      | November  | 0.41                |               |
| 9      | December  | 0.42                |               |
| 10     | January   | 0.42                |               |
| 11     | February  | 0.38                |               |
| 12     | March     | 0.42                |               |

# Name of the Hydro Generation Station: Sumhok Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Tahin Nallah

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

# Name of the Hydro Generation Station: Namchik -II MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 300

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.21                |               |
| 2      | May       | 0.21                |               |
| 3      | June      | 0.21                |               |
| 4      | July      | 0.21                |               |
| 5      | August    | 0.21                |               |
| 6      | September | 0.21                |               |
| 7      | October   | 0.21                |               |
| 8      | November  | 0.21                |               |
| 9      | December  | 0.21                |               |
| 10     | January   | 0.21                |               |
| 11     | February  | 0.19                |               |
| 12     | March     | 0.21                |               |

### Name of the Hydro Generation Station: Kaho

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 10

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.01                |               |
| 2      | May       | 0.01                |               |
| 3      | June      | 0.01                |               |
| 4      | July      | 0.01                |               |
| 5      | August    | 0.01                |               |
| 6      | September | 0.01                |               |
| 7      | October   | 0.01                |               |
| 8      | November  | 0.01                |               |
| 9      | December  | 0.01                |               |
| 10     | January   | 0.01                |               |
| 11     | February  | 0.01                |               |
| 12     | March     | 0.01                |               |

### Name of the Hydro Generation Station: Kebitho

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 30

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.02                |               |
| 2      | May       | 0.02                |               |
| 3      | June      | 0.02                |               |
| 4      | July      | 0.02                |               |
| 5      | August    | 0.02                |               |
| 6      | September | 0.02                |               |
| 7      | October   | 0.02                |               |
| 8      | November  | 0.02                |               |
| 9      | December  | 0.02                |               |
| 10     | January   | 0.02                | ·             |
| 11     | February  | 0.02                | ·             |
| 12     | March     | 0.02                | •             |

### Name of the Hydro Generation Station: Mati Nallah

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

# Name of the Hydro Generation Station: Yapak Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 200

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.14                |               |
| 2      | May       | 0.14                |               |
| 3      | June      | 0.14                |               |
| 4      | July      | 0.14                |               |
| 5      | August    | 0.14                |               |
| 6      | September | 0.14                |               |
| 7      | October   | 0.14                |               |
| 8      | November  | 0.14                |               |
| 9      | December  | 0.14                |               |
| 10     | January   | 0.14                |               |
| 11     | February  | 0.13                |               |
| 12     | March     | 0.14                |               |

### Name of the Hydro Generation Station: Teepani

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 500

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.34                |               |
| 2      | May       | 0.35                |               |
| 3      | June      | 0.34                |               |
| 4      | July      | 0.35                |               |
| 5      | August    | 0.35                |               |
| 6      | September | 0.34                |               |
| 7      | October   | 0.35                |               |
| 8      | November  | 0.34                |               |
| 9      | December  | 0.35                |               |
| 10     | January   | 0.35                |               |
| 11     | February  | 0.32                |               |
| 12     | March     | 0.35                |               |

# Name of the Hydro Generation Station: Krawti Nallah DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Hathipani

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Tah Nallah

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 100

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.07                |               |
| 2      | May       | 0.07                |               |
| 3      | June      | 0.07                |               |
| 4      | July      | 0.07                |               |
| 5      | August    | 0.07                |               |
| 6      | September | 0.07                |               |
| 7      | October   | 0.07                |               |
| 8      | November  | 0.07                |               |
| 9      | December  | 0.07                |               |
| 10     | January   | 0.07                |               |
| 11     | February  | 0.06                |               |
| 12     | March     | 0.07                |               |

### Name of the Hydro Generation Station: Maipani

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 60

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.04                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.04                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.04                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.04                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.04                |               |
| 12     | March     | 0.04                |               |

### Name of the Hydro Generation Station: Ashapani

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 60

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.04                |               |
| 2      | May       | 0.04                |               |
| 3      | June      | 0.04                |               |
| 4      | July      | 0.04                |               |
| 5      | August    | 0.04                |               |
| 6      | September | 0.04                |               |
| 7      | October   | 0.04                |               |
| 8      | November  | 0.04                |               |
| 9      | December  | 0.04                |               |
| 10     | January   | 0.04                |               |
| 11     | February  | 0.04                |               |
| 12     | March     | 0.04                |               |

### Name of the Hydro Generation Station: Langpani

# DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 400

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.27                |               |
| 2      | May       | 0.28                |               |
| 3      | June      | 0.27                |               |
| 4      | July      | 0.28                |               |
| 5      | August    | 0.28                |               |
| 6      | September | 0.27                |               |
| 7      | October   | 0.28                |               |
| 8      | November  | 0.27                |               |
| 9      | December  | 0.28                |               |
| 10     | January   | 0.28                |               |
| 11     | February  | 0.26                |               |
| 12     | March     | 0.28                |               |

# Name of the Hydro Generation Station: Kachopani MHS DESIGN ENERGY AND MW CONTINUOUS (monthwise)- RUN OF RIVER TYPE STATIONS

Installed Capacity: No. of Units X.KW = 200

| S. No. | Month     | Design Energy (Mus) | MW Continuous |
|--------|-----------|---------------------|---------------|
| 1      | April     | 0.14                |               |
| 2      | May       | 0.14                |               |
| 3      | June      | 0.14                |               |
| 4      | July      | 0.14                |               |
| 5      | August    | 0.14                |               |
| 6      | September | 0.14                |               |
| 7      | October   | 0.14                |               |
| 8      | November  | 0.14                |               |
| 9      | December  | 0.14                |               |
| 10     | January   | 0.14                |               |
| 11     | February  | 0.13                |               |
| 12     | March     | 0.14                |               |

#### Format - HG 3

### **Annual Revenue Requirement**

(Rs. In Lakhs)

|       |                                       | (Rs. In Lakns)         |  |
|-------|---------------------------------------|------------------------|--|
| S. No | Particulars                           | 2020-21<br>(Projected) |  |
| 1     | Gross Generation (MU)                 | 64.79                  |  |
| 2     | Auxilary Consumption (MU)             | 1.16                   |  |
| 3     | Net Generation (MU)                   | 63.63                  |  |
| 4     | Free Energy to home state (MU)        | 0.00                   |  |
| 5     | Royalty (Rs.)                         | 0.00                   |  |
| 6     | Water Charges (Rs.)                   | 0.00                   |  |
| 7     | Capacity Charges (Rs.)                |                        |  |
|       | a) Interest on Loan capitals (Rs.)    | 0.00                   |  |
|       | b) Depreciation (Rs.)                 | 2224.86                |  |
|       | c) Advance against depreciation (Rs.) | 0.00                   |  |
|       | d) O&M Expenses (Rs.)                 | 2978.90                |  |
|       | e) Interest on working capital (Rs.)  | 236.93                 |  |
|       | f) Foreign exchange Rate (%)          |                        |  |
|       | g) Return on Equity                   | 3420.99                |  |
|       | h) Income Taxes (Rs.)                 |                        |  |
|       | Total fixed expenses (5+6+7)          | 8861.68                |  |

Format - 2
TOTAL NUMBER OF EMPLOYEES

| S.<br>No | Particulars   | 2020-21<br>(Projected) |  |
|----------|---|------------------------|--|
| 1        | 2   | 3                      |  |
| 1        | Number of employees as on 1st April                                 | 2831.00                |  |
| 2        | Number of employees recuited during the year                        | 0.00                   |  |
| 3        | Number of employees on deputation / foreign service as on 1st April | 0.00                   |  |
| 4        | Total Number of employees (1+2+3)                                   | 2831.00                |  |
| 5        | Number of employees retired/ retiring during the year               | 0.00                   |  |
| 6        | Number of employees at the end of the year (4-5)                    | 2831.00                |  |

Format - 3
EMPLOYEES PRODUCTIVE PARAMETERS

| S.<br>No | Particulars  | 2020-21<br>(Projected) |  |
|----------|--|------------------------|--|
| 1        | 2  | 3                      |  |
| 1        | Energy sold in MU                                    | 63.63                  |  |
| 2        | Employees per MU of energy sold                      | 44.49                  |  |
| 3        | Power station installed capacity own generation (MW) | 75.33                  |  |
| 4        | Employes per MW of capacity for generating company   | 37.58                  |  |

### **INVESTMENT PLAN (SCHEME - WISE)**

(Rs. In Lakhs)

| Sl. No. | Name of Scheme/<br>Project                               | Approved<br>Outlay                    | 2017-18 (Actuals) | 2018-19 (Actual) | 2019-20<br>(Estimated) | Progressive<br>Expenditure<br>upto Ensuing<br>year |
|---------|--|---------------------------------------|-------------------|------------------|------------------------|--|
| 1       | 2  | 3                                     | 4                 | 5                | 6                      | 7  |
|         | New HEP/renovation of existing HEP/civil structures etc. | Details provided in Annexure- 10 & 11 |                   |                  |                        |  |

### **INVESTMENT PLAN (YEAR - WISE)**

(Rs. In Lakhs)

| S/ No. | Year    | Originally<br>proposed by<br>the Utility | Approved<br>by the<br>Commission | Revised<br>by the<br>Utility | Revised approval by the<br>Commission in review | Actual expenditure upto |
|--------|---------|--|----------------------------------|------------------------------|---|-------------------------|
| 1      | 2       | 3  | 4                                | 5                            | 6   | 7                       |
| 1      | 2017-18 | Details provided in Annexure- 10 & 11    |                                  |                              |   |                         |
| 2      | 2018-19 |  |                                  |                              |   |                         |
| 3      | 2019-20 |  |                                  |                              |   |                         |