



APPLICATION

FOR

BUSINESS PLAN AND
MULTI YEAR TARIFF (MYT)
FOR THE PERIOD FROM
FY 2018-19 TO FY 2020-21

PART – A

Submitted by:
Department of Hydro Power Development-2018

GENERAL HEADINGS OF PROCEEDINGS

**BEFORE THE ARUNACHAL PRADESH STATE ELECTRICITY REGULATORY
COMMISSION (APSERC), ITANAGAR**

Filing No.....

Case No.....

IN THE MATTER OF:

APPLICATION FOR APPROVAL OF BUSINESS
PLAN AND MULTI YEAR TARIFF OF HYDRO
ELECTRIC STATIONS, DEPARTMENT OF HYDRO
POWER DEVELOPMENT, ARUNACHAL
PRADESH FOR THE FINANCIAL YEAR 2018-19 TO
2020-21 IN ACCORDANCE WITH THE APSERC
MYT REGULATIONS, 2013 & APSERC (TERMS &
CONDITIONS FOR TARIFF DETERMINATION
FROM RENEWABLE ENERGY SOURCES
REGULATION - 2012) AS AMENDED FROM TIME
TO TIME WHEREVER APPLICABLE.

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

A F F I D A V I T

BEFORE HON'BLE ELECTRICITY REGULATORY COMMISSION

FOR THE STATE OF ARUNACHAL PRADESH

FILE No: _____

CASE No: _____

IN THE MATTER OF : **Petition for Approval of Business Plan and Multi Year Tariff (MYT) from the Period from 2018-19 to 2020-21 for The State of Arunachal Pradesh under Sections 61, 62 and 64 of The Electricity Act 2003.**

AND

IN THE MATTER OF : **Department of Hydro Power Development, Jal Vidyut Bhawan,**
THE PETITIONER

Itanagar, Arunachal Pradesh

.....Petitioner

I _____, son of _____ (aged _____ years), (occupation) Government Service residing at (_____), the deponent named above do hereby solemnly affirm and state on oath as under:-

1. That the deponent is the _____ of the Department of Hydro Power Development, Government of 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:

- a) Proposal for Business Plan and Multi Year Tariff ("MYT") for the Financial Year 2018-19 to 2020-21 for 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: _____, 2018

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, 2018 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. NO.	TABLE OF CONTENT	Page No.
1	BACKGROUND	1
1.1	BASIS OF FILING - MULTI YEAR TARIFF REGULATIONS, 2013 & Renewable Energy Regulations, 2012	1
1.2	Filing of Tariff proposal for 3 year Control Period from FY 2018-19 to FY 2020-21	3
2	OVERALL APPROACH FOR PRESENT FILING	3
2.1	Generation Charges for the Period from FY 2018- 19 to FY 2020-21	3
2.2	Approach for the Filing	4
3	AGGREGATE REVENUE REQUIREMENT FOR THE PERIOD OF FY 2018-19 TO FY 2020-21	4
4	DETAILS OF THE SHPS	5
4.1	Capital Cost	8
5	DETERMINATION OF ANNUAL REVENUE REQUIREMENT	15
5.1	Loan and Finance Charges	15
5.2	Depreciation	25
5.3	Return on Equity	42
5.4	Interest on Working Capital	51
5.5	Operation & Maintenance Expenses	62
5.6	Annual Revenue Requirement	66
5.7	Summary of Annual Revenue Requirement	76
6	CAPACITY UTILISATION FACTOR	79
7	AUXILIARY CONSUMTION	83
8	GENERATION TARIFF	86

SL. NO.	LIST OF TABLES	Page No.
4.1	Details of SHPS	5-8
4.2A	Indexed Capital Cost – SHP <5 MW	11
4.2B	Indexed Capital Cost – SHP (5-25 MW)	11
4.3	Capital Cost	12-15
5.1.1	Calculation of Interest on Loan for FY 2018-19	16-19
5.1.2	Calculation of Interest on Loan for FY 2019-20	19-22
5.1.3	Calculation of Interest on Loan for FY 2020-21	22-25
5.2.1	Calculation of Depreciation for FY 2018-19	26-30
5.2.2	Calculation of Depreciation for FY 2019-20	31-36
5.2.3	Calculation of Depreciation for FY 2020-21	36-41
5.3.1	Return on Equity for the FY 2018-19	42-45
5.3.2	Return on Equity for the FY 2019-20	45-48
5.3.3	Return on Equity for the FY 2020-21	48-51
5.4.1	Interest on Working Capital for the FY 2018-19	52-55
5.4.2	Interest on Working Capital for the FY 2019-20	55-58
5.4.3	Interest on Working Capital for the FY 2020-21	59-62
5.5.1	O&M Expenses	63-66
5.6.1	Annual Revenue Requirement for FY 2018-19	67-70
5.6.2	Annual Revenue Requirement for FY 2019-20	70-73
5.6.3	Annual Revenue Requirement for FY 2020-21	73-76
5.7.1	Summary of SHPs	76-79
6.1	Generation	80-81
7.1	Normative Auxiliary Consumption	83-86
8.1	Tariff for Generation	87-90

LIST OF ABBREVIATIONS

Abbreviation	Description
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
FAC	Fuel Adjustment Costs
FDR	Fixed Deposits Receipts
FY	Financial Year
GFA	Gross Fixed Assets
HP	Horse Power
HT	High Tension
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
PLR	Prime Lending Rate
R&M	Repairs and Maintenance
RoR	Rate of Return
Rs.	Rupees
S/s	Sub Station
SBI	State Bank of India
SERC	State Electricity Regulatory Commission
T&D	Transmission & Distribution
UMPP	Ultra Mega Power Projects
DHPD	Department of Hydro Power Development
MYT	MULTI Year Tariff

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 62.61 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”.

1.1 BASIS OF FILING – MULTI YEAR TARIFF REGULATIONS, 2013 & RENEWABLE ENERGY REGULATIONS, 2012

DHPD tariff determination is now governed by “Arunachal Pradesh State Electricity Regularity Commission Renewable Energy Regulations, 2012” (referred to as “Renewable Energy Regulations, 2012”) & “Arunachal Pradesh State Electricity Regularity Commission (Multi Year Tariff) Regulations, 2013, (referred to as “MYT Regulations, 2013”) . Regulation 45.1 of the MYT Regulations, 2013 provide as follows:

“The Regulations specified in this Chapter shall apply for determining the tariff for supply of electricity to a Distribution Licensee from hydro generation stations of capacity more than 25 MW:

Provided that determination of tariff for supply of electricity to a Distribution Licensee from Renewable Energy sources of generation shall be in accordance with terms and conditions as stipulated in the relevant Regulations/Orders of the Commission.”

The Arunachal Pradesh State Electricity Regulatory Commission in exercise of powers conferred under Section 61 read with Section 181 (2) of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, issued Arunachal Pradesh State Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 vide notification dated 09.04.2012. Subsequently the Regulation was amended to incorporate certain changes and notified as The Arunachal Pradesh State Electricity Regulatory Commission (Terms and Conditions for Tariff Determination from Renewable Energy Sources Regulation 2012) (1st Amendment) Regulations, 2017.

Regulation 3 of the above regulations provides as follows:

“These regulations shall apply in all cases where tariff, for a generating station or a unit thereof based on renewable sources of energy, is to be determined by the Commission under Section 62 read with Section 86 of the Act.

Provided that in cases of small hydro projects, Biomass power based on Rankine cycle, Solar PV, Biomass gasified power project, these regulations shall apply subject to the fulfillment of eligibility criteria specified in regulation 4 of these Regulations.”

Further, regulation 4(a) provides that these regulations shall apply to the Small Hydro Project with installed capacity lower than or equal to defining the eligibility criteria for applicability of the Renewable Energy sources regulations 25 MW. The extract of the regulation is reproduced below:

“Small hydro project – located at the sites approved by State Nodal Agency/ State Government using new plant and machinery, and installed power plant capacity to be lower than or equal to 25 MW at single location”.

1.2 FILING OF TARIFF PROPOSAL FOR 3 YEAR CONTROL PERIOD FROM FY 2018-19 TO FY 2020-21

Department of Hydro Power Development, Arunachal Pradesh owns 124 Small & Mini Hydro Projects with installed capacity below 25MW. Regulation 3 of The Arunachal Pradesh State Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 (1st Amedment) Regulations,2017 provides as follow:

“ New Regulation under 7(a) is included at Sl. No. ix as follows:

7(a) ix- For SHPs of capacity 1.0 MW and above, unless tariff is dertemined through a process of open tariff based bidding.”

The above amendment read with Regulation 7(a) of the Renewable Energy Regulations, 2012 provides that project specific tariff is required to determine for SHPs of capacity 1 MW and above.

However, head wise capital cost details of SHPs as may be required for validation of cost & determination of project specific tariff is currently not available. The details of the capital cost of individual SHPs are being compiled and shall be submitted to the Hon’ble Commission in subsequent tariff filings.

Accordingly, the DHPD has submitted the proposal for determination of tariff as per normative parameters applicable for ‘Small Hydro Project’ as provided in Chapter 3 (Technology specific paramteres for Small Hydro Project) of The Arunachal Pradesh State Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012.

In view of the above, it is prayed that the Hon’ble Commission may kindly consider & allow the tariff to be detrmined as per the normative parameters as provided in the The Arunachal Pradesh State Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012.

2. OVERALL APPROACH FOR PRESENT FILING

2.1 GENERATION CHARGES FOR THE PERIOD FROM FY 2018- 19 TO FY 2020-21

DHPD hereby submits its petition for approval of Generation Charges for the period of FY 2018-19 to FY 2020-21. This petition is being submitted in compliance with the provisions of Renewable Energy Sources Tariff Regulations, 2012 and its subsequent amendments. The petitioner has attempted to comply with the various guidelines in the Act and regulations within the limitations of availability of data.

DHPD is filing the petition based on the past performance and expected changes in each element of cost and revenue for the ensuing year. DHPD has studied the past trends and taken cognizance of other internal and external developments to estimate the likely performance during the period i.e. FY 2018-19, FY 2019-20 & FY 2020-21.

2.2 APPROACH FOR THE FILING

The subsequent sections provide projection for various expenses, the proposed investment plan for the period and the expected revenue projections.

Projections of various cost components required for determination of Aggregate Revenue Requirement along with the rationale for arriving of such cost, the philosophy adopted by DHPD for projecting generation for the period has been covered in various sections.

For the purpose of projecting the financial & technical parameters, DHPD has considered its actual performance during the FY 2016-17 and FY 2017-18 (H1) and the normative parameters prescribed in the Regulations as base and has projected the figures for the control period with supporting rationales.

3. AGGREGATE REVENUE REQUIREMENT FOR THE PERIOD OF FY 2018-19 TO FY 2020-21

This section outlines the Aggregate Revenue Requirement of the DHPD for the period i.e. FY 2018-19, FY 2019-20 & FY 2020-21, which takes into consideration:

- a. Actual Performance in FY 2016-17;
- b. Estimated Performance for FY 2017-18 based on the Actual performance for the period 01.04.2017 to 30.09.2017;
- c. Projection based on the Actual performance in FY 2015-16 & FY 2016-17 and estimated performance in FY2017-18;
- d. Principles/ Normative Parameters outlined in Tariff Regulations of APSERC.

Past trends have been taken into cognizance in case of certain elements as deemed necessary. The petition has been structured in the following manner:

SHP details

- Installed capacity & COD
- Capital Cost
- Design Energy

Proposed Capital Expenditure and capitalization

- Scheme wise details
- Capital Expenditure
- Asset Capitalisation

Determination of the Aggregate Revenue Requirement

- Loan & Finance Charges
- Depreciation
- Return on Equity
- Interest on Working Capital
- Operation and Maintenance Expenses

4. DETAILS OF THE SHPS

Details of SHPs are provided in the table below:

Tables 4.1: Details of SHPS

Sl. No.	Name of Station	Installed Capacity (KW)	Date of COD
1	Kitpi Ph-I	1500	01-04-1977
2	Nuranang	6000	01-04-1996
3	T. Gompa	50	01-04-2001
4	Dudunghar (challengk- Ph1)	30	01-04-2004
5	Bramdhongchung	100	01-04-2008
6	Shakti Nallah	100	01-04-2008
7	Kitpi MHS Ph-II	3000	01-04-2008
8	Challengkang Ph-II	30	01-04-2008
9	Bongleng	100	01-04-2009
10	Thimbu	100	01-04-2009
11	Bramdhongchung Ph-II	100	01-04-2010
12	Tsechu Nallah	100	01-04-2010

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

13	Rahung	750	01-04-1972
14	Dirang	2000	01-04-1977
15	Sessa	1500	01-04-1992
16	Rupa	200	01-04-1997
17	Dokumpani	30	01-04-2000
18	Domkhong	2000	01-04-2008
19	Sinchung	50	01-04-2008
20	Ankaling	30	01-04-2009
21	Khet	100	01-04-2009
22	Mago MHS	100	01-04-2014
23	Dikshi	30	01-04-2010
24	Khadiyabey	200	01-04-2011
25	Saktangrong	300	01-04-2011
26	Jigaon	100	01-04-2016
27	Zhongdongrong	1000	01-04-2016
28	Seppa	300	01-04-1980
29	Pakke Kessang	30	01-04-2001
30	Pacha MHS	3000	01-04-2008
31	Pakoti	100	01-04-2010
32	Patta Nallah	100	01-04-2010
33	Watte Mame	50	01-04-2010
34	Kade Nallah	50	01-04-2010
35	Kidding MHS	500	01-04-2017
36	Dumi Dutte	30	01-04-2017
37	Pappey Nallah	10	01-04-1995
38	Patte MHS at Tali	30	01-04-2004
39	Koye	50	01-04-2009
40	Chambang	30	01-04-2009
41	Paya MHS at Hiya	100	01-04-2011
42	Mai Ph-I	2000	01-04-1977
43	Mai Ph-II	1000	01-04-1982
44	Tago	4500	01-04-1992
45	Dulom (Daporijo)	400	01-04-1981
46	Maro	30	01-04-2002
47	Sippi	4000	01-04-2008
48	Ayingmuri MHS	250	01-04-2012
49	Limeking MHS	30	01-04-2012
50	Pinto Karo MHS	25	01-04-2011
51	Sikin Karo	200	01-04-2011
52	Sinyum Koro	100	01-04-2011
53	Kojin Nallah	100	01-04-2011
54	Siyum	30	01-04-2005

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

55	Pagi (Basar)	100	01-04-1972
56	Along	400	01-04-1975
57	Ego-Echi (Dali)	400	01-04-1987
58	Mechuka	150	01-04-2015
59	Yomcha	50	01-04-2001
60	Beye	30	01-04-2004
61	Kambang	6000	01-04-2008
62	Liromoba	2000	01-04-2008
63	Yingko Sikong at Rapum	50	01-04-2009
64	Angu	50	01-04-2010
65	Solegomang MHS	50	01-04-2011
66	Borung MHS	50	01-04-2011
67	Sirikorang MHS	500	01-04-2013
68	Yingkiong Ph-I	150	01-04-1980
69	Sikut/ Tuting	100	01-04-1984
70	Yingkiong Ph-II	200	01-04-1992
71	Selli at Geku	500	01-04-1994
72	Sirnyuk	2000	01-04-1996
73	Kopu at Tuting	250	01-04-2007
74	Silingri	50	01-04-2008
75	Singa	30	01-04-2008
76	Ngaming	50	01-04-2008
77	Sika	15	01-04-2008
78	Mayung	5	01-04-2009
79	Gosang	500	01-04-2011
80	Kote MHS	50	01-04-2011
81	Sijen MHS at Adi pasi	50	01-04-2011
82	Pyabung MHS	25	01-04-2011
83	Pangkang MHS	125	01-04-1995
84	Pasighat	200	01-04-1974
85	Yembung	2000	01-04-1994
86	Silli	30	01-04-2001
87	Rina	2000	01-04-2008
88	Deopani Ph-I	750	01-04-1986
89	Abhapani	450	01-04-1994
90	Deopani Ph-II	750	01-04-2004
91	Anini/ Awapani Ph-I	150	01-04-1994
92	Tah Ahfra Ph-I & Ph-II	100	01-04-2009
93	Chini Afra	250	01-04-2001
94	Echi Ahfra	400	01-04-2005
95	Awapani Ph-II	500	01-04-2005
96	Echito Nallah	40	01-04-2010

97	Rupapani	40	01-04-2010
98	Chu Nallah	30	01-04-2011
99	Awapani at Gepuline	500	01-04-2014
100	Mukto MHS	6000	Under Trial Run
101	Theya Ahfra at Jambupani	30	01-04-2000
102	Dura Nallah	500	01-04-2013
103	Tafragram	250	01-04-1984
104	Kaho	10	01-04-2004
105	Kebitho	30	01-04-2004
106	Mati Nallah	500	01-04-2004
107	Yapak Nallah	200	01-04-2005
108	Teepani	500	01-04-2009
109	Krawti Nallah	100	01-04-2009
110	Hathipani	100	01-04-2009
111	Tah Nallah	100	01-04-2009
112	Maipani	60	01-04-2010
113	Ashapani	60	01-04-2011
114	Langpani	400	01-04-2011
115	Tissue	400	01-04-1986
116	Jongkey Nallah	25	01-04-2011
117	Ngonalo at Vijaynagar	100	01-04-2010
118	Tinning	60	01-04-2010
119	Chicklong	150	01-04-2011
120	Thiratju	1000	01-04-1978
121	Charju	600	01-04-1984
122	Sumhok Nallah	100	01-04-2009
123	Tahin Nallah	100	01-04-2011
124	Kachopani MHS	200	01-04-2014

In this regard it is submitted that since the Mukto MHS has not been commissioned till date the same has not been considered for the calculation of Capital cost, ARR & Generation Tariff thereof in accordance with The Arunachal Pradesh State Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 read along with First Amendments Regulations, 2017. However, the SHP is generating infirm power and the same is being injected.

4.1 Capital Cost

Regulation 24 of the APSERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 provides that the capital cost of Small Hydro Projects shall be determined as per the normative parameters defined in the regulation. The extract of the regulation is reproduced below:

- (1) The normative capital cost for small hydro projects during first year of Control Period (FY 2012-13) shall be as follows:

Sl. No.	Project Size	Capital Cost (₹ in Lakh/MW)
1	Below 5 MW	700
2	5 MW to 25 MW	630

- (2) The capital cost for subsequent years shall be determined on the basis of indexation formula as outlined under Regulation 25.

Further, regulation 25 provides the Capital Cost Indexation Mechanism. The provisions of the regulation are reproduced below:

“The following indexation mechanism shall be applicable in case of small hydro power projects for adjustments in capital cost over the Control Period with the changes in Wholesale Price Index for Steel and Electrical Machinery.

$$CC(n) = P\&M(n) * (1+F1+F2+F3)$$

$$P\&M(n) = P\&M(0) * (1+d(n))$$

$$d(n) = [a * \{(SI(n-1)/SI(0)) - 1\} + b * \{(EI(n-1)/EI(0)) - 1\}] / (a+b)$$

Where,

CC(n) = Capital Cost for nth year

P&M(n) = Plant and Machinery Cost for nth year

P&M(0) = Plant and Machinery Cost for the base year

Note. P&M(0) is to be computed by dividing the base capital cost (for the first year of the control period) by (1+F1+F2+F3) i.e.

Small Hydro Project Factor	Base Capital Cost (Lakh/MW)	(1+F1+F2+F3)	P&M (0) (Lakh/MW)
SHP (< 5 MW)	700	1.4	500
SHP (5 - 25 MW)	630	1.4	450

$d(n)$ = Capital Cost escalation factor for year (n) of Control Period

$SI(n-1)$ = Average WPI Steel Index prevalent for calendar year (n-1) of the Control Period

$SI(0)$ = Average WPI Steel Index prevalent for calendar year (0) at the beginning of the Control Period i.e. April,2011 to December March,2012

$EI(n-1)$ = Average WPI Electrical Machinery Index prevalent for calendar year

(n-1) of the Control Period

$EI(0)$ = Average WPI Electrical and Machinery Index prevalent for calendar year (0) at the beginning of the Control Period i.e. . April,2011 to December March,2012

a = Constant to be determined by Commission from time to time, (In default it is 0.6), for weightage to Steel Index

b = Constant to be determined by Commission from time to time, (In default it is 0.4), for weightage to Electrical Machinery Index

$F1$ = Factor for Land and Civil Work (0.16)

$F2$ = Factor for Erection and Commissioning (0.10)

$F3$ = Factor for IDC and Financing Cost (0.14)”

Capital cost of the SHPs has been calculated in accordance with the above defined norms & mechanism. The calculation of indexed capital cost is detailed below:

Table 4.2A: Indexed Capital Cost – SHP <5 MW

Sl. No.	Factors	Reference Year	Value
i	d(n)	2017-18	
ii	SI(n-1)	2016-17	105.80
iii	SI(0)	2011-12	100.00
iv	EI (n-1)	2016-17	108.20
v	EI (0)	2011-12	100.00
vi	a		0.60
vii	b		0.40
viii	F1+F2+F3		0.40
ix	P&M(0)		500.00

$$\begin{aligned}
 d(n) &= [a*\{(SI(n-1)/SI(0))-1\}+b*\{(EI(n-1)/EI(0))-1\}]/(a+b) \\
 &= [0.6\{(105.80/100.00)-1\}+0.40\{(108.20/100.00)-1\}]/(0.60+0.40) \\
 &= 0.068
 \end{aligned}$$

$$\begin{aligned}
 P\&M(n) &= P\&M(0)*\{1+d(n)\} \\
 &= 500 \{1+ 0.068 \} \\
 &= 533.80
 \end{aligned}$$

$$\begin{aligned}
 CC(n) &= P\&M(n)*(1+F1+F2+F3) \\
 &= 533.80 (1+ 0.40) \\
 &= 747.32
 \end{aligned}$$

Table 4.2B: Indexed Capital Cost – SHP (5-25 MW)

Sl. No.	Factors	Reference Year	Value
i	d(n)	2017-18	
ii	SI(n-1)	2016-17	105.80
iii	SI(0)	2011-12	100.00
iv	EI (n-1)	2016-17	108.20
v	EI (0)	2011-12	100.00
vi	a		0.60
vii	b		0.40
viii	F1+F2+F3		0.40
ix	P&M(0)		450.00

$$= [a*\{(SI(n-1)/SI(0))-1\}+b*\{(EI(n-1)/EI(0))-1\}]/(a+b)$$

$$= [0.6\{(105.80/100.00)-1\}+0.40\{(108.20/100.00)-1\}]/(0.60+0.40)$$

$$= 0.068$$

$$P\&M(n) = P\&M(0)*\{1+d(n)\}$$

$$= 450 \{1+ 0.068 \}$$

$$= 480.42$$

$$CC(n) = P\&M(n)*(1+F1+F2+F3)$$

$$= 480.42 (1+ 0.40)$$

$$= 672.59$$

Therefore the indexed cost of project per MW (below 5 MW) is ₹ 747.32 Lakhs and (5 MW to below 25 MW) is ₹ 672.59 Lakhs. The indexed capital cost of the 124 SHPs are accordingly calculated below:

Table 4.3: Capital Cost

Sl. No.	Name of Station	Installed Capacity (MW)	Capital Cost IN (Lakhs/MW)
1	Kitpi Ph-I	1.50	1120.98
2	Nuranang	6.00	4035.53
3	T. Gompa	0.05	37.37
4	Dudunghar (challengk- Ph1)	0.03	22.42
5	Bramdhongchung	0.10	74.73
6	Shakti Nallah	0.10	74.73
7	Kitpi MHS Ph-II	3.00	2241.96
8	Challengkang Ph-II	0.03	22.42
9	Bongleng	0.10	74.73
10	Thimbu	0.10	74.73
11	Bramdhongchung Ph-II	0.10	74.73
12	Tsechu Nallah	0.10	74.73
13	Rahung	0.75	560.49
14	Dirang	2.00	1494.64
15	Sessa	1.50	1120.98
16	Rupa	0.20	149.46
17	Dokumpani	0.03	22.42
18	Domkhong	2.00	1494.64

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

19	Sinchung	0.05	37.37
20	Ankaling	0.03	22.42
21	Khet	0.10	74.73
22	Mago MHS	0.10	74.73
23	Dikshi	0.03	22.42
24	Khadiyabey	0.20	149.46
25	Saktangrong	0.30	224.20
26	Jigaon	0.10	74.73
27	Zhongdongrong	1.00	747.32
28	Seppa	0.30	224.20
29	Pakke Kessang	0.03	22.42
30	Pacha MHS	3.00	2241.96
31	Pakoti	0.10	74.73
32	Patta Nallah	0.10	74.73
33	Watte Mame	0.05	37.37
34	Kade Nallah	0.05	37.37
35	Kidding MHS	0.50	373.66
36	Dumi Dutte	0.03	22.42
37	Pappey Nallah	0.01	7.47
38	Patte MHS at Tali	0.03	22.42
39	Koye	0.05	37.37
40	Chambang	0.03	22.42
41	Paya MHS at Hiya	0.10	74.73
42	Mai Ph-I	2.00	1494.64
43	Mai Ph-II	1.00	747.32
44	Tago	4.50	3362.94
45	Dulom (Daporijo)	0.40	298.93
46	Maro	0.03	22.42
47	Sippi	4.00	2989.28
48	Ayingmuri MHS	0.25	186.83
49	Limeking MHS	0.03	22.42
50	Pinto Karo MHS	0.03	18.68
51	Sikin Karo	0.20	149.46
52	Sinyum Koro	0.10	74.73
53	Kojin Nallah	0.10	74.73
54	Siyum	0.03	22.42
55	Pagi (Basar)	0.10	74.73
56	Along	0.40	298.93
57	Ego-Echi (Dali)	0.40	298.93
58	Mechuka	0.15	112.10
59	Yomcha	0.05	37.37
60	Beye	0.03	22.42

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

61	Kambang	6.00	4035.53
62	Liromoba	2.00	1494.64
63	Yingko Sikong at Rapum	0.05	37.37
64	Angu	0.05	37.37
65	Solegomang MHS	0.05	37.37
66	Borong MHS	0.05	37.37
67	Sirikorang MHS	0.50	373.66
68	Yingkiong Ph-I	0.15	112.10
69	Sikut/ Tuting	0.10	74.73
70	Yingkiong Ph-II	0.20	149.46
71	Selli at Geku	0.50	373.66
72	Sirnyuk	2.00	1494.64
73	Kopu at Tuting	0.25	186.83
74	Silingri	0.05	37.37
75	Singa	0.03	22.42
76	Ngaming	0.05	37.37
77	Sika	0.02	11.21
78	Mayung	0.01	3.74
79	Gosang	0.50	373.66
80	Kote MHS	0.05	37.37
81	Sijen MHS at Adi pasi	0.05	37.37
82	Pyabung MHS	0.03	18.68
83	Pangkang MHS	0.13	93.42
84	Pasighat	0.20	149.46
85	Yembung	2.00	1494.64
86	Silli	0.03	22.42
87	Rina	2.00	1494.64
88	Deopani Ph-I	0.75	560.49
89	Abhapani	0.45	336.29
90	Deopani Ph-II	0.75	560.49
91	Anini/ Awapani Ph-I	0.15	112.10
92	Tah Ahfra Ph-I & Ph-II	0.10	74.73
93	Chini Afra	0.25	186.83
94	Echi Ahfra	0.40	298.93
95	Awapani Ph-II	0.50	373.66
96	Echito Nallah	0.04	29.89
97	Rupapani	0.04	29.89
98	Chu Nallah	0.03	22.42
99	Awapani at Gepuline	0.50	373.66
100	Mukto MHS	6.00	4035.53
101	Theya Ahfra at Jambupani	0.03	22.42
102	Dura Nallah	0.50	373.66

103	Tafragram	0.25	186.83
104	Kaho	0.01	7.47
105	Kebitho	0.03	22.42
106	Mati Nallah	0.50	373.66
107	Yapak Nallah	0.20	149.46
108	Teepani	0.50	373.66
109	Krawti Nallah	0.10	74.73
110	Hathipani	0.10	74.73
111	Tah Nallah	0.10	74.73
112	Maipani	0.06	44.84
113	Ashapani	0.06	44.84
114	Langpani	0.40	298.93
115	Tissue	0.40	298.93
116	Jongkey Nallah	0.03	18.68
117	Ngonalo at Vijaynagar	0.10	74.73
118	Tinning	0.06	44.84
119	Chicklong	0.15	112.10
120	Thiratju	1.00	747.32
121	Charju	0.60	448.39
122	Sumhok Nallah	0.10	74.73
123	Tahin Nallah	0.10	74.73
124	Kachopani MHS	0.20	149.46

5. DETERMINATION OF ANNUAL REVENUE REQUIREMENT

5.1 LOAN AND FINANCE CHARGES

Debt has been calculated in accordance with Regulation 13 of APERC Renewable Energy Regulations, 2012 at 70% of the capital Cost as determined in section 4 above. Tenure of loan has been taken as 12 years as per Regulation 14 of APERC Renewable Energy Regulations, 2012. Further, no loan has been considered for projects in operation for more than 12 years considering the normative loan tenure as provided in the Regulation 14.

Interest on loan has been calculated in accordance with Regulation 14 (b) of APERC Renewable Energy Regulations, 2012 on the loan amount arrived in accordance with Regulation 13 & 14 discussed above. Accordingly, average State Bank of India (SBI) Base rate prevalent during the first six months of the previous year plus 300 basis points has been considered for arriving at the interest on loan for the SHPs. The interest on loan of the SHPs for the control period is provided below:

Table 5.1.1: Calculation of Interest on Loan for FY 2018-19

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	Interest Rate (%)	Int. on Loan
1	Kitpi Ph-I	01-04-1977	1120.98	42	11.70%	0.00
2	Nuranang	01-04-1996	4035.53	23	11.70%	0.00
3	T. Gompa	01-04-2001	37.37	18	11.70%	0.00
4	Dudunghar (chellengk- Ph1)	01-04-2004	22.42	15	11.70%	0.00
5	Bramdhongchung	01-04-2008	74.73	11	11.70%	6.12
6	Shakti Nallah	01-04-2008	74.73	11	11.70%	6.12
7	Kitpi MHS Ph-II	01-04-2008	2241.96	11	11.70%	183.62
8	Chellengkang Ph-II	01-04-2008	22.42	11	11.70%	1.84
9	Bongleng	01-04-2009	74.73	10	11.70%	6.12
10	Thimbu	01-04-2009	74.73	10	11.70%	6.12
11	Bramdhongchung Ph-II	01-04-2010	74.73	9	11.70%	6.12
12	Tsechu Nallah	01-04-2010	74.73	9	11.70%	6.12
13	Rahung	01-04-1972	560.49	6	11.70%	45.90
14	Dirang	01-04-1977	1494.64	42	11.70%	0.00
15	Sessa	01-04-1992	1120.98	27	11.70%	0.00
16	Rupa	01-04-1997	149.46	22	11.70%	0.00
17	Dokumpani	01-04-2000	22.42	19	11.70%	0.00
18	Domkhong	01-04-2008	1494.64	11	11.70%	122.41
19	Sinchung	01-04-2008	37.37	11	11.70%	3.06
20	Ankaling	01-04-2009	22.42	10	11.70%	1.84
21	Khet	01-04-2009	74.73	10	11.70%	6.12
22	Mago MHS	01-04-2014	74.73	5	11.70%	6.12
23	Dikshi	01-04-2010	22.42	9	11.70%	1.84
24	Khadiyabey	01-04-2011	149.46	8	11.70%	12.24
25	Saktangrong	01-04-2011	224.20	8	11.70%	18.36
26	Jigaon	01-04-2016	74.73	3	11.70%	6.12
27	Zhongdongrong	01-04-2016	747.32	3	11.70%	61.21
28	Seppa	01-04-1980	224.20	39	11.70%	0.00
29	Pakke Kessang	01-04-2001	22.42	18	11.70%	0.00
30	Pacha MHS	01-04-2008	2241.96	11	11.70%	183.62
31	Pakoti	01-04-2010	74.73	9	11.70%	6.12
32	Patta Nallah	01-04-2010	74.73	9	11.70%	6.12
33	Watte Mame	01-04-2010	37.37	9	11.70%	3.06
34	Kade Nallah	01-04-2010	37.37	9	11.70%	3.06
35	Kidding MHS	01-04-2017	373.66	2	11.70%	30.60
36	Dumi Dutte	01-04-2017	22.42	2	11.70%	1.84
37	Pappey Nallah	01-04-1995	7.47	24	11.70%	0.00



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

38	Patte MHS at Tali	01-04-2004	22.42	15	11.70%	0.00
39	Koye	01-04-2009	37.37	10	11.70%	3.06
40	Chambang	01-04-2009	22.42	10	11.70%	1.84
41	Paya MHS at Hiya	01-04-2011	74.73	8	11.70%	6.12
42	Mai Ph-I	01-04-1977	1494.64	42	11.70%	0.00
43	Mai Ph-II	01-04-1982	747.32	37	11.70%	0.00
44	Tago	01-04-1992	3362.94	27	11.70%	0.00
45	Dulom (Daporijo)	01-04-1981	298.93	38	11.70%	0.00
46	Maro	01-04-2002	22.42	17	11.70%	0.00
47	Sippi	01-04-2008	2989.28	11	11.70%	244.82
48	Ayingmuri MHS	01-04-2012	186.83	7	11.70%	15.30
49	Limeking MHS	01-04-2012	22.42	7	11.70%	1.84
50	Pinto Karo MHS	01-04-2011	18.68	8	11.70%	1.53
51	Sikin Karo	01-04-2011	149.46	8	11.70%	12.24
52	Sinyum Koro	01-04-2011	74.73	8	11.70%	6.12
53	Kojin Nallah	01-04-2011	74.73	8	11.70%	6.12
54	Siyum	01-04-2005	22.42	14	11.70%	0.00
55	Pagi (Basar)	01-04-1972	74.73	47	11.70%	0.00
56	Along	01-04-1975	298.93	44	11.70%	0.00
57	Ego-Echi (Dali)	01-04-1987	298.93	32	11.70%	0.00
58	Mechuka	01-04-2015	112.10	4	11.70%	9.18
59	Yomcha	01-04-2001	37.37	18	11.70%	0.00
60	Beye	01-04-2004	22.42	15	11.70%	0.00
61	Kambang	01-04-2008	4035.53	11	11.70%	330.51
62	Liromoba	01-04-2008	1494.64	11	11.70%	122.41
63	Yingko Sikong at Rapum	01-04-2009	37.37	10	11.70%	3.06
64	Angu	01-04-2010	37.37	9	11.70%	3.06
65	Solegomang MHS	01-04-2011	37.37	8	11.70%	3.06
66	Borong MHS	01-04-2011	37.37	8	11.70%	3.06
67	Sirikorang MHS	01-04-2013	373.66	6	11.70%	30.60
68	Yingkiong Ph-I	01-04-1980	112.10	39	11.70%	0.00
69	Sikut/ Tuting	01-04-1984	74.73	35	11.70%	0.00
70	Yingkiong Ph-II	01-04-1992	149.46	27	11.70%	0.00
71	Selli at Geku	01-04-1994	373.66	25	11.70%	0.00
72	Sirnyuk	01-04-1996	1494.64	23	11.70%	0.00
73	Kopu at Tuting	01-04-2007	186.83	12	11.70%	15.30
74	Silingri	01-04-2008	37.37	11	11.70%	3.06
75	Singa	01-04-2008	22.42	11	11.70%	1.84
76	Ngaming	01-04-2008	37.37	11	11.70%	3.06
77	Sika	01-04-2008	11.21	11	11.70%	0.92
78	Mayung	01-04-2009	3.74	10	11.70%	0.31
79	Gosang	01-04-2011	373.66	8	11.70%	30.60



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

80	Kote MHS	01-04-2011	37.37	8	11.70%	3.06
81	Sijen MHS at Adi pasi	01-04-2011	37.37	8	11.70%	3.06
82	Pyabung MHS	01-04-2011	18.68	8	11.70%	1.53
83	Pangkang MHS	01-04-1995	93.42	24	11.70%	0.00
84	Pasighat	01-04-1974	149.46	45	11.70%	0.00
85	Yembung	01-04-1994	1494.64	25	11.70%	0.00
86	Silli	01-04-2001	22.42	18	11.70%	0.00
87	Rina	01-04-2008	1494.64	11	11.70%	122.41
88	Deopani Ph-I	01-04-1986	560.49	33	11.70%	0.00
89	Abhapani	01-04-1994	336.29	25	11.70%	0.00
90	Deopani Ph-II	01-04-2004	560.49	15	11.70%	0.00
91	Anini/ Awapani Ph-I	01-04-1994	112.10	25	11.70%	0.00
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	10	11.70%	6.12
93	Chini Afra	01-04-2001	186.83	18	11.70%	0.00
94	Echi Ahfra	01-04-2005	298.93	14	11.70%	0.00
95	Awapani Ph-II	01-04-2005	373.66	14	11.70%	0.00
96	Echito Nallah	01-04-2010	29.89	9	11.70%	2.45
97	Rupapani	01-04-2010	29.89	9	11.70%	2.45
98	Chu Nallah	01-04-2011	22.42	8	11.70%	1.84
99	Awapani at Gepuline	01-04-2014	373.66	5	11.70%	30.60
100	Mukto MHS	Under Trial Run	0.00	0	11.70%	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	19	11.70%	0.00
102	Dura Nallah	01-04-2013	373.66	6	11.70%	30.60
103	Tafragram	01-04-1984	186.83	35	11.70%	0.00
104	Kaho	01-04-2004	7.47	15	11.70%	0.00
105	Kebitho	01-04-2004	22.42	15	11.70%	0.00
106	Mati Nallah	01-04-2004	373.66	15	11.70%	0.00
107	Yapak Nallah	01-04-2005	149.46	14	11.70%	0.00
108	Teepani	01-04-2009	373.66	10	11.70%	30.60
109	Krawti Nallah	01-04-2009	74.73	10	11.70%	6.12
110	Hathipani	01-04-2009	74.73	10	11.70%	6.12
111	Tah Nallah	01-04-2009	74.73	10	11.70%	6.12
112	Maipani	01-04-2010	44.84	9	11.70%	3.67
113	Ashapani	01-04-2011	44.84	8	11.70%	3.67
114	Langpani	01-04-2011	298.93	8	11.70%	24.48
115	Tissue	01-04-1986	298.93	33	11.70%	0.00
116	Jongkey Nallah	01-04-2011	18.68	8	11.70%	1.53
117	Ngonalo at Vijaynagar	01-04-2010	74.73	9	11.70%	6.12
118	Tinning	01-04-2010	44.84	9	11.70%	3.67
119	Chicklong	01-04-2011	112.10	8	11.70%	9.18
120	Thiratju	01-04-1978	747.32	41	11.70%	0.00



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

121	Charju	01-04-1984	448.39	35	11.70%	0.00
122	Sumhok Nallah	01-04-2009	74.73	10	11.70%	6.12
123	Tahin Nallah	01-04-2011	74.73	8	11.70%	6.12
124	Kachopani MHS	01-04-2014	149.46	5	11.70%	12.24

Table 5.1.2: Calculation of Interest on Loan for FY 2019-20

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	Interest Rate (%)	Int. on Loan
1	Kitpi Ph-I	01-04-1977	1120.98	43	11.70%	0.00
2	Nuranang	01-04-1996	4035.53	24	11.70%	0.00
3	T. Gompa	01-04-2001	37.37	19	11.70%	0.00
4	Dudunghar (chellengk- Ph1)	01-04-2004	22.42	16	11.70%	0.00
5	Bramdhongchung	01-04-2008	74.73	12	11.70%	6.12
6	Shakti Nallah	01-04-2008	74.73	12	11.70%	6.12
7	Kitpi MHS Ph-II	01-04-2008	2241.96	12	11.70%	183.62
8	Chellengkang Ph-II	01-04-2008	22.42	12	11.70%	1.84
9	Bongleng	01-04-2009	74.73	11	11.70%	6.12
10	Thimbu	01-04-2009	74.73	11	11.70%	6.12
11	Bramdhongchung Ph-II	01-04-2010	74.73	10	11.70%	6.12
12	Tsechu Nallah	01-04-2010	74.73	10	11.70%	6.12
13	Rahung	01-04-1972	560.49	7	11.70%	45.90
14	Dirang	01-04-1977	1494.64	43	11.70%	0.00
15	Sessa	01-04-1992	1120.98	28	11.70%	0.00
16	Rupa	01-04-1997	149.46	23	11.70%	0.00
17	Dokumpani	01-04-2000	22.42	20	11.70%	0.00
18	Domkhong	01-04-2008	1494.64	12	11.70%	122.41
19	Sinchung	01-04-2008	37.37	12	11.70%	3.06
20	Ankaling	01-04-2009	22.42	11	11.70%	1.84
21	Khet	01-04-2009	74.73	11	11.70%	6.12
22	Mago MHS	01-04-2014	74.73	6	11.70%	6.12
23	Dikshi	01-04-2010	22.42	10	11.70%	1.84
24	Khadiyabey	01-04-2011	149.46	9	11.70%	12.24
25	Saktangrong	01-04-2011	224.20	9	11.70%	18.36
26	Jigaon	01-04-2016	74.73	4	11.70%	6.12
27	Zhongdongrong	01-04-2016	747.32	4	11.70%	61.21
28	Seppa	01-04-1980	224.20	40	11.70%	0.00
29	Pakke Kessang	01-04-2001	22.42	19	11.70%	0.00
30	Pacha MHS	01-04-2008	2241.96	12	11.70%	183.62
31	Pakoti	01-04-2010	74.73	10	11.70%	6.12



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

32	Patta Nallah	01-04-2010	74.73	10	11.70%	6.12
33	Watte Mame	01-04-2010	37.37	10	11.70%	3.06
34	Kade Nallah	01-04-2010	37.37	10	11.70%	3.06
35	Kidding MHS	01-04-2017	373.66	3	11.70%	30.60
36	Dumi Dutte	01-04-2017	22.42	3	11.70%	1.84
37	Pappey Nallah	01-04-1995	7.47	25	11.70%	0.00
38	Patte MHS at Tali	01-04-2004	22.42	16	11.70%	0.00
39	Koye	01-04-2009	37.37	11	11.70%	3.06
40	Chambang	01-04-2009	22.42	11	11.70%	1.84
41	Paya MHS at Hiya	01-04-2011	74.73	9	11.70%	6.12
42	Mai Ph-I	01-04-1977	1494.64	43	11.70%	0.00
43	Mai Ph-II	01-04-1982	747.32	38	11.70%	0.00
44	Tago	01-04-1992	3362.94	28	11.70%	0.00
45	Dulom (Daporijo)	01-04-1981	298.93	39	11.70%	0.00
46	Maro	01-04-2002	22.42	18	11.70%	0.00
47	Sippi	01-04-2008	2989.28	12	11.70%	244.82
48	Ayingmuri MHS	01-04-2012	186.83	8	11.70%	15.30
49	Limeking MHS	01-04-2012	22.42	8	11.70%	1.84
50	Pinto Karo MHS	01-04-2011	18.68	9	11.70%	1.53
51	Sikin Karo	01-04-2011	149.46	9	11.70%	12.24
52	Sinyum Koro	01-04-2011	74.73	9	11.70%	6.12
53	Kojin Nallah	01-04-2011	74.73	9	11.70%	6.12
54	Siyum	01-04-2005	22.42	15	11.70%	0.00
55	Pagi (Basar)	01-04-1972	74.73	48	11.70%	0.00
56	Along	01-04-1975	298.93	45	11.70%	0.00
57	Ego-Echi (Dali)	01-04-1987	298.93	33	11.70%	0.00
58	Mechuka	01-04-2015	112.10	5	11.70%	9.18
59	Yomcha	01-04-2001	37.37	19	11.70%	0.00
60	Beye	01-04-2004	22.42	16	11.70%	0.00
61	Kambang	01-04-2008	4035.53	12	11.70%	330.51
62	Liromoba	01-04-2008	1494.64	12	11.70%	122.41
63	Yingko Sikong at Rapum	01-04-2009	37.37	11	11.70%	3.06
64	Angu	01-04-2010	37.37	10	11.70%	3.06
65	Solegomang MHS	01-04-2011	37.37	9	11.70%	3.06
66	Borong MHS	01-04-2011	37.37	9	11.70%	3.06
67	Sirikorang MHS	01-04-2013	373.66	7	11.70%	30.60
68	Yingkiong Ph-I	01-04-1980	112.10	40	11.70%	0.00
69	Sikut/ Tuting	01-04-1984	74.73	36	11.70%	0.00
70	Yingkiong Ph-II	01-04-1992	149.46	28	11.70%	0.00
71	Selli at Geku	01-04-1994	373.66	26	11.70%	0.00
72	Sirnyuk	01-04-1996	1494.64	24	11.70%	0.00
73	Kopu at Tuting	01-04-2007	186.83	13	11.70%	15.30



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

74	Silingri	01-04-2008	37.37	12	11.70%	3.06
75	Singa	01-04-2008	22.42	12	11.70%	1.84
76	Ngaming	01-04-2008	37.37	12	11.70%	3.06
77	Sika	01-04-2008	11.21	12	11.70%	0.92
78	Mayung	01-04-2009	3.74	11	11.70%	0.31
79	Gosang	01-04-2011	373.66	9	11.70%	30.60
80	Kote MHS	01-04-2011	37.37	9	11.70%	3.06
81	Sijen MHS at Adi pasi	01-04-2011	37.37	9	11.70%	3.06
82	Pyabung MHS	01-04-2011	18.68	9	11.70%	1.53
83	Pangkang MHS	01-04-1995	93.42	25	11.70%	0.00
84	Pasighat	01-04-1974	149.46	46	11.70%	0.00
85	Yembung	01-04-1994	1494.64	26	11.70%	0.00
86	Silli	01-04-2001	22.42	19	11.70%	0.00
87	Rina	01-04-2008	1494.64	12	11.70%	122.41
88	Deopani Ph-I	01-04-1986	560.49	34	11.70%	0.00
89	Abhapani	01-04-1994	336.29	26	11.70%	0.00
90	Deopani Ph-II	01-04-2004	560.49	16	11.70%	0.00
91	Anini/ Awapani Ph-I	01-04-1994	112.10	26	11.70%	0.00
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	11	11.70%	6.12
93	Chini Afra	01-04-2001	186.83	19	11.70%	0.00
94	Echi Ahfra	01-04-2005	298.93	15	11.70%	0.00
95	Awapani Ph-II	01-04-2005	373.66	15	11.70%	0.00
96	Echito Nallah	01-04-2010	29.89	10	11.70%	2.45
97	Rupapani	01-04-2010	29.89	10	11.70%	2.45
98	Chu Nallah	01-04-2011	22.42	9	11.70%	1.84
99	Awapani at Gepuline	01-04-2014	373.66	6	11.70%	30.60
100	Mukto MHS	Under Trial Run	0.00	0	11.70%	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	20	11.70%	0.00
102	Dura Nallah	01-04-2013	373.66	7	11.70%	30.60
103	Tafragram	01-04-1984	186.83	36	11.70%	0.00
104	Kaho	01-04-2004	7.47	16	11.70%	0.00
105	Kebitho	01-04-2004	22.42	16	11.70%	0.00
106	Mati Nallah	01-04-2004	373.66	16	11.70%	0.00
107	Yapak Nallah	01-04-2005	149.46	15	11.70%	0.00
108	Teepani	01-04-2009	373.66	11	11.70%	30.60
109	Krawti Nallah	01-04-2009	74.73	11	11.70%	6.12
110	Hathipani	01-04-2009	74.73	11	11.70%	6.12
111	Tah Nallah	01-04-2009	74.73	11	11.70%	6.12
112	Maipani	01-04-2010	44.84	10	11.70%	3.67
113	Ashapani	01-04-2011	44.84	9	11.70%	3.67
114	Langpani	01-04-2011	298.93	9	11.70%	24.48



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

115	Tissue	01-04-1986	298.93	34	11.70%	0.00
116	Jongkey Nallah	01-04-2011	18.68	9	11.70%	1.53
117	Ngonalo at Vijaynagar	01-04-2010	74.73	10	11.70%	6.12
118	Tinning	01-04-2010	44.84	10	11.70%	3.67
119	Chicklong	01-04-2011	112.10	9	11.70%	9.18
120	Thiratju	01-04-1978	747.32	42	11.70%	0.00
121	Charju	01-04-1984	448.39	36	11.70%	0.00
122	Sumhok Nallah	01-04-2009	74.73	11	11.70%	6.12
123	Tahin Nallah	01-04-2011	74.73	9	11.70%	6.12
124	Kachopani MHS	01-04-2014	149.46	6	11.70%	12.24

Table 5.1.3: Calculation of Interest on Loan for FY 2020-21

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	Interest Rate (%)	Int. on Loan
1	Kitpi Ph-I	01-04-1977	1120.98	44	11.70%	0.00
2	Nuranang	01-04-1996	4035.53	25	11.70%	0.00
3	T. Gompa	01-04-2001	37.37	20	11.70%	0.00
4	Dudunghar (challengk- Ph1)	01-04-2004	22.42	17	11.70%	0.00
5	Bramdhongchung	01-04-2008	74.73	13	11.70%	6.12
6	Shakti Nallah	01-04-2008	74.73	13	11.70%	6.12
7	Kitpi MHS Ph-II	01-04-2008	2241.96	13	11.70%	183.62
8	Challengkang Ph-II	01-04-2008	22.42	13	11.70%	1.84
9	Bongleng	01-04-2009	74.73	12	11.70%	6.12
10	Thimbu	01-04-2009	74.73	12	11.70%	6.12
11	Bramdhongchung Ph-II	01-04-2010	74.73	11	11.70%	6.12
12	Tsechu Nallah	01-04-2010	74.73	11	11.70%	6.12
13	Rahung	01-04-1972	560.49	8	11.70%	45.90
14	Dirang	01-04-1977	1494.64	44	11.70%	0.00
15	Sessa	01-04-1992	1120.98	29	11.70%	0.00
16	Rupa	01-04-1997	149.46	24	11.70%	0.00
17	Dokumpani	01-04-2000	22.42	21	11.70%	0.00
18	Domkhong	01-04-2008	1494.64	13	11.70%	122.41
19	Sinchung	01-04-2008	37.37	13	11.70%	3.06
20	Ankaling	01-04-2009	22.42	12	11.70%	1.84
21	Khet	01-04-2009	74.73	12	11.70%	6.12
22	Mago MHS	01-04-2014	74.73	7	11.70%	6.12
23	Dikshi	01-04-2010	22.42	11	11.70%	1.84
24	Khadiyabey	01-04-2011	149.46	10	11.70%	12.24
25	Saktangrong	01-04-2011	224.20	10	11.70%	18.36



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

26	Jigaon	01-04-2016	74.73	5	11.70%	6.12
27	Zhongdongrong	01-04-2016	747.32	5	11.70%	61.21
28	Seppa	01-04-1980	224.20	41	11.70%	0.00
29	Pakke Kessang	01-04-2001	22.42	20	11.70%	0.00
30	Pacha MHS	01-04-2008	2241.96	13	11.70%	183.62
31	Pakoti	01-04-2010	74.73	11	11.70%	6.12
32	Patta Nallah	01-04-2010	74.73	11	11.70%	6.12
33	Watte Mame	01-04-2010	37.37	11	11.70%	3.06
34	Kade Nallah	01-04-2010	37.37	11	11.70%	3.06
35	Kidding MHS	01-04-2017	373.66	4	11.70%	30.60
36	Dumi Dutte	01-04-2017	22.42	4	11.70%	1.84
37	Pappey Nallah	01-04-1995	7.47	26	11.70%	0.00
38	Patte MHS at Tali	01-04-2004	22.42	17	11.70%	0.00
39	Koye	01-04-2009	37.37	12	11.70%	3.06
40	Chambang	01-04-2009	22.42	12	11.70%	1.84
41	Paya MHS at Hiya	01-04-2011	74.73	10	11.70%	6.12
42	Mai Ph-I	01-04-1977	1494.64	44	11.70%	0.00
43	Mai Ph-II	01-04-1982	747.32	39	11.70%	0.00
44	Tago	01-04-1992	3362.94	29	11.70%	0.00
45	Dulom (Daporijo)	01-04-1981	298.93	40	11.70%	0.00
46	Maro	01-04-2002	22.42	19	11.70%	0.00
47	Sippi	01-04-2008	2989.28	13	11.70%	244.82
48	Ayingmuri MHS	01-04-2012	186.83	9	11.70%	15.30
49	Limeking MHS	01-04-2012	22.42	9	11.70%	1.84
50	Pinto Karo MHS	01-04-2011	18.68	10	11.70%	1.53
51	Sikin Karo	01-04-2011	149.46	10	11.70%	12.24
52	Sinyum Koro	01-04-2011	74.73	10	11.70%	6.12
53	Kojin Nallah	01-04-2011	74.73	10	11.70%	6.12
54	Siyum	01-04-2005	22.42	16	11.70%	0.00
55	Pagi (Basar)	01-04-1972	74.73	49	11.70%	0.00
56	Along	01-04-1975	298.93	46	11.70%	0.00
57	Ego-Echi (Dali)	01-04-1987	298.93	34	11.70%	0.00
58	Mechuka	01-04-2015	112.10	6	11.70%	9.18
59	Yomcha	01-04-2001	37.37	20	11.70%	0.00
60	Beye	01-04-2004	22.42	17	11.70%	0.00
61	Kambang	01-04-2008	4035.53	13	11.70%	330.51
62	Liromoba	01-04-2008	1494.64	13	11.70%	122.41
63	Yingko Sikong at Rapum	01-04-2009	37.37	12	11.70%	3.06
64	Angu	01-04-2010	37.37	11	11.70%	3.06
65	Solegomang MHS	01-04-2011	37.37	10	11.70%	3.06
66	Borung MHS	01-04-2011	37.37	10	11.70%	3.06
67	Sirikorang MHS	01-04-2013	373.66	8	11.70%	30.60



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

68	Yingkiong Ph-I	01-04-1980	112.10	41	11.70%	0.00
69	Sikut/ Tuting	01-04-1984	74.73	37	11.70%	0.00
70	Yingkiong Ph-II	01-04-1992	149.46	29	11.70%	0.00
71	Selli at Geku	01-04-1994	373.66	27	11.70%	0.00
72	Sirnyuk	01-04-1996	1494.64	25	11.70%	0.00
73	Kopu at Tuting	01-04-2007	186.83	14	11.70%	0.00
74	Silingri	01-04-2008	37.37	13	11.70%	3.06
75	Singa	01-04-2008	22.42	13	11.70%	1.84
76	Ngaming	01-04-2008	37.37	13	11.70%	3.06
77	Sika	01-04-2008	11.21	13	11.70%	0.92
78	Mayung	01-04-2009	3.74	12	11.70%	0.31
79	Gosang	01-04-2011	373.66	10	11.70%	30.60
80	Kote MHS	01-04-2011	37.37	10	11.70%	3.06
81	Sijen MHS at Adi pasi	01-04-2011	37.37	10	11.70%	3.06
82	Pyabung MHS	01-04-2011	18.68	10	11.70%	1.53
83	Pangkang MHS	01-04-1995	93.42	26	11.70%	0.00
84	Pasighat	01-04-1974	149.46	47	11.70%	0.00
85	Yembung	01-04-1994	1494.64	27	11.70%	0.00
86	Silli	01-04-2001	22.42	20	11.70%	0.00
87	Rina	01-04-2008	1494.64	13	11.70%	122.41
88	Deopani Ph-I	01-04-1986	560.49	35	11.70%	0.00
89	Abhapani	01-04-1994	336.29	27	11.70%	0.00
90	Deopani Ph-II	01-04-2004	560.49	17	11.70%	0.00
91	Anini/ Awapani Ph-I	01-04-1994	112.10	27	11.70%	0.00
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	12	11.70%	6.12
93	Chini Afra	01-04-2001	186.83	20	11.70%	0.00
94	Echi Ahfra	01-04-2005	298.93	16	11.70%	0.00
95	Awapani Ph-II	01-04-2005	373.66	16	11.70%	0.00
96	Echito Nallah	01-04-2010	29.89	11	11.70%	2.45
97	Rupapani	01-04-2010	29.89	11	11.70%	2.45
98	Chu Nallah	01-04-2011	22.42	10	11.70%	1.84
99	Awapani at Gepuline	01-04-2014	373.66	7	11.70%	30.60
100	Mukto MHS	Under Trial Run	0.00	0	11.70%	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	21	11.70%	0.00
102	Dura Nallah	01-04-2013	373.66	8	11.70%	30.60
103	Tafragram	01-04-1984	186.83	37	11.70%	0.00
104	Kaho	01-04-2004	7.47	17	11.70%	0.00
105	Kebitho	01-04-2004	22.42	17	11.70%	0.00
106	Mati Nallah	01-04-2004	373.66	17	11.70%	0.00
107	Yapak Nallah	01-04-2005	149.46	16	11.70%	0.00
108	Teepani	01-04-2009	373.66	12	11.70%	30.60



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

109	Krawti Nallah	01-04-2009	74.73	12	11.70%	6.12
110	Hathipani	01-04-2009	74.73	12	11.70%	6.12
111	Tah Nallah	01-04-2009	74.73	12	11.70%	6.12
112	Maipani	01-04-2010	44.84	11	11.70%	3.67
113	Ashapani	01-04-2011	44.84	10	11.70%	3.67
114	Langpani	01-04-2011	298.93	10	11.70%	24.48
115	Tissue	01-04-1986	298.93	35	11.70%	0.00
116	Jongkey Nallah	01-04-2011	18.68	10	11.70%	1.53
117	Ngonalo at Vijaynagar	01-04-2010	74.73	11	11.70%	6.12
118	Tinning	01-04-2010	44.84	11	11.70%	3.67
119	Chicklong	01-04-2011	112.10	10	11.70%	9.18
120	Thiratju	01-04-1978	747.32	43	11.70%	0.00
121	Charju	01-04-1984	448.39	37	11.70%	0.00
122	Sumhok Nallah	01-04-2009	74.73	12	11.70%	6.12
123	Tahin Nallah	01-04-2011	74.73	10	11.70%	6.12
124	Kachopani MHS	01-04-2014	149.46	7	11.70%	12.24

The Hon'ble Commission is requested to kindly consider & approve the Interest on Loan as proposed above.

5.2 Depreciation

Depreciation has been calculated in accordance with the regulation 15 of the APSERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 along with amendments. In accordance with Regulation 15(1) the salvage value of the asset has been considered as 10%. Further, depreciation has been computed at Straight Line Method @ 5.83% per annum for the 1st 12 years of operation & thereafter, the balance depreciable value is spread over the remaining useful life of the project. The depreciation of the SHPs for the control period is provided below:

Table 5.2.1: Calculation of Depreciation for FY 2018-19

(In ₹ Lakhs)

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	Balance Useful Life	Depreciation /year upto 12th Year	Depreciation from 13th Year	Depreciation for 2018-19
1	Kitpi Ph-I	01-04-1977	1120.98	42	0	58.82	13.18	0.00
2	Nuranang	01-04-1996	4035.53	23	12	211.74	47.44	47.44
3	T. Gompa	01-04-2001	37.37	18	17	1.96	0.44	0.44
4	Dudunghar (challengk-Ph1)	01-04-2004	22.42	15	20	1.18	0.26	0.26
5	Bramdhongchung	01-04-2008	74.73	11	24	3.92	0.88	3.92
6	Shakti Nallah	01-04-2008	74.73	11	24	3.92	0.88	3.92
7	Kitpi MHS Ph-II	01-04-2008	2241.96	11	24	117.64	26.35	117.64
8	Challengkang Ph-II	01-04-2008	22.42	11	24	1.18	0.26	1.18
9	Bongleng	01-04-2009	74.73	10	25	3.92	0.88	3.92
10	Thimbu	01-04-2009	74.73	10	25	3.92	0.88	3.92
11	Bramdhongchung Ph-II	01-04-2010	74.73	9	26	3.92	0.88	3.92
12	Tsechu Nallah	01-04-2010	74.73	9	26	3.92	0.88	3.92
13	Rahung	01-04-1972	560.49	6	29	29.41	6.59	29.41
14	Dirang	01-04-1977	1494.64	42	0	78.42	17.57	0.00
15	Sessa	01-04-1992	1120.98	27	8	58.82	13.18	13.18
16	Rupa	01-04-1997	149.46	22	13	7.84	1.76	1.76
17	Dokumpani	01-04-2000	22.42	19	16	1.18	0.26	0.26
18	Domkhong	01-04-2008	1494.64	11	24	78.42	17.57	78.42



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

19	Sinchung	01-04-2008	37.37	11	24	1.96	0.44	1.96
20	Ankaling	01-04-2009	22.42	10	25	1.18	0.26	1.18
21	Khet	01-04-2009	74.73	10	25	3.92	0.88	3.92
22	Mago MHS	01-04-2014	74.73	5	30	3.92	0.88	3.92
23	Dikshi	01-04-2010	22.42	9	26	1.18	0.26	1.18
24	Khadiyabey	01-04-2011	149.46	8	27	7.84	1.76	7.84
25	Saktangrong	01-04-2011	224.20	8	27	11.76	2.64	11.76
26	Jigaon	01-04-2016	74.73	3	32	3.92	0.88	3.92
27	Zhongdongrong	01-04-2016	747.32	3	32	39.21	8.78	39.21
28	Seppa	01-04-1980	224.20	39	0	11.76	2.64	0.00
29	Pakke Kessang	01-04-2001	22.42	18	17	1.18	0.26	0.26
30	Pacha MHS	01-04-2008	2241.96	11	24	117.64	26.35	117.64
31	Pakoti	01-04-2010	74.73	9	26	3.92	0.88	3.92
32	Patta Nallah	01-04-2010	74.73	9	26	3.92	0.88	3.92
33	Watte Mame	01-04-2010	37.37	9	26	1.96	0.44	1.96
34	Kade Nallah	01-04-2010	37.37	9	26	1.96	0.44	1.96
35	Kidding MHS	01-04-2017	373.66	2	33	19.61	4.39	19.61
36	Dumi Dutte	01-04-2017	22.42	2	33	1.18	0.26	1.18
37	Pappey Nallah	01-04-1995	7.47	24	11	0.39	0.09	0.09
38	Patte MHS at Tali	01-04-2004	22.42	15	20	1.18	0.26	0.26
39	Koye	01-04-2009	37.37	10	25	1.96	0.44	1.96
40	Chambang	01-04-2009	22.42	10	25	1.18	0.26	1.18
41	Paya MHS at Hiya	01-04-2011	74.73	8	27	3.92	0.88	3.92
42	Mai Ph-I	01-04-1977	1494.64	42	0	78.42	17.57	0.00
43	Mai Ph-II	01-04-1982	747.32	37	0	39.21	8.78	0.00
44	Tago	01-04-1992	3362.94	27	8	176.45	39.53	39.53
45	Dulom (Daporijo)	01-04-1981	298.93	38	0	15.68	3.51	0.00



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

46	Maro	01-04-2002	22.42	17	18	1.18	0.26	0.26
47	Sippi	01-04-2008	2989.28	11	24	156.85	35.14	156.85
48	Ayingmuri MHS	01-04-2012	186.83	7	28	9.80	2.20	9.80
49	Limeking MHS	01-04-2012	22.42	7	28	1.18	0.26	1.18
50	Pinto Karo MHS	01-04-2011	18.68	8	27	0.98	0.22	0.98
51	Sikin Karo	01-04-2011	149.46	8	27	7.84	1.76	7.84
52	Sinyum Koro	01-04-2011	74.73	8	27	3.92	0.88	3.92
53	Kojin Nallah	01-04-2011	74.73	8	27	3.92	0.88	3.92
54	Siyum	01-04-2005	22.42	14	21	1.18	0.26	0.26
55	Pagi (Basar)	01-04-1972	74.73	47	0	3.92	0.88	0.00
56	Along	01-04-1975	298.93	44	0	15.68	3.51	0.00
57	Ego-Echi (Dali)	01-04-1987	298.93	32	3	15.68	3.51	3.51
58	Mechuka	01-04-2015	112.10	4	31	5.88	1.32	5.88
59	Yomcha	01-04-2001	37.37	18	17	1.96	0.44	0.44
60	Beye	01-04-2004	22.42	15	20	1.18	0.26	0.26
61	Kambang	01-04-2008	4035.53	11	24	211.74	47.44	211.74
62	Liromoba	01-04-2008	1494.64	11	24	78.42	17.57	78.42
63	Yingko Sikong at Rapum	01-04-2009	37.37	10	25	1.96	0.44	1.96
64	Angu	01-04-2010	37.37	9	26	1.96	0.44	1.96
65	Solegomang MHS	01-04-2011	37.37	8	27	1.96	0.44	1.96
66	Borong MHS	01-04-2011	37.37	8	27	1.96	0.44	1.96
67	Sirikorang MHS	01-04-2013	373.66	6	29	19.61	4.39	19.61
68	Yingkiong Ph-I	01-04-1980	112.10	39	0	5.88	1.32	0.00
69	Sikut/ Tuting	01-04-1984	74.73	35	0	3.92	0.88	0.88
70	Yingkiong Ph-II	01-04-1992	149.46	27	8	7.84	1.76	1.76
71	Selli at Geku	01-04-1994	373.66	25	10	19.61	4.39	4.39
72	Sirnyuk	01-04-1996	1494.64	23	12	78.42	17.57	17.57



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

73	Kopu at Tuting	01-04-2007	186.83	12	23	9.80	2.20	9.80
74	Silingri	01-04-2008	37.37	11	24	1.96	0.44	1.96
75	Singa	01-04-2008	22.42	11	24	1.18	0.26	1.18
76	Ngaming	01-04-2008	37.37	11	24	1.96	0.44	1.96
77	Sika	01-04-2008	11.21	11	24	0.59	0.13	0.59
78	Mayung	01-04-2009	3.74	10	25	0.20	0.04	0.20
79	Gosang	01-04-2011	373.66	8	27	19.61	4.39	19.61
80	Kote MHS	01-04-2011	37.37	8	27	1.96	0.44	1.96
81	Sijen MHS at Adi pasi	01-04-2011	37.37	8	27	1.96	0.44	1.96
82	Pyabung MHS	01-04-2011	18.68	8	27	0.98	0.22	0.98
83	Pangkang MHS	01-04-1995	93.42	24	11	4.90	1.10	1.10
84	Pasighat	01-04-1974	149.46	45	0	7.84	1.76	0.00
85	Yembung	01-04-1994	1494.64	25	10	78.42	17.57	17.57
86	Silli	01-04-2001	22.42	18	17	1.18	0.26	0.26
87	Rina	01-04-2008	1494.64	11	24	78.42	17.57	78.42
88	Deopani Ph-I	01-04-1986	560.49	33	2	29.41	6.59	6.59
89	Abhapani	01-04-1994	336.29	25	10	17.65	3.95	3.95
90	Deopani Ph-II	01-04-2004	560.49	15	20	29.41	6.59	6.59
91	Anini/ Awapani Ph-I	01-04-1994	112.10	25	10	5.88	1.32	1.32
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	10	25	3.92	0.88	3.92
93	Chini Afra	01-04-2001	186.83	18	17	9.80	2.20	2.20
94	Echi Ahfra	01-04-2005	298.93	14	21	15.68	3.51	3.51
95	Awapani Ph-II	01-04-2005	373.66	14	21	19.61	4.39	4.39
96	Echito Nallah	01-04-2010	29.89	9	26	1.57	0.35	1.57
97	Rupapani	01-04-2010	29.89	9	26	1.57	0.35	1.57
98	Chu Nallah	01-04-2011	22.42	8	27	1.18	0.26	1.18
99	Awapani at Gepuline	01-04-2014	373.66	5	30	19.61	4.39	19.61



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

100	Mukto MHS	Under Trial Run	0.00	0	0	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	19	16	1.18	0.26	0.26
102	Dura Nallah	01-04-2013	373.66	6	29	19.61	4.39	19.61
103	Tafragram	01-04-1984	186.83	35	0	9.80	2.20	2.20
104	Kaho	01-04-2004	7.47	15	20	0.39	0.09	0.09
105	Kebitho	01-04-2004	22.42	15	20	1.18	0.26	0.26
106	Mati Nallah	01-04-2004	373.66	15	20	19.61	4.39	4.39
107	Yapak Nallah	01-04-2005	149.46	14	21	7.84	1.76	1.76
108	Teepani	01-04-2009	373.66	10	25	19.61	4.39	19.61
109	Krawti Nallah	01-04-2009	74.73	10	25	3.92	0.88	3.92
110	Hathipani	01-04-2009	74.73	10	25	3.92	0.88	3.92
111	Tah Nallah	01-04-2009	74.73	10	25	3.92	0.88	3.92
112	Maipani	01-04-2010	44.84	9	26	2.35	0.53	2.35
113	Ashapani	01-04-2011	44.84	8	27	2.35	0.53	2.35
114	Langpani	01-04-2011	298.93	8	27	15.68	3.51	15.68
115	Tissue	01-04-1986	298.93	33	2	15.68	3.51	3.51
116	Jongkey Nallah	01-04-2011	18.68	8	27	0.98	0.22	0.98
117	Ngonalo at Vijaynagar	01-04-2010	74.73	9	26	3.92	0.88	3.92
118	Tinning	01-04-2010	44.84	9	26	2.35	0.53	2.35
119	Chicklong	01-04-2011	112.10	8	27	5.88	1.32	5.88
120	Thiratju	01-04-1978	747.32	41	0	39.21	8.78	0.00
121	Charju	01-04-1984	448.39	35	0	23.53	5.27	5.27
122	Sumhok Nallah	01-04-2009	74.73	10	25	3.92	0.88	3.92
123	Tahin Nallah	01-04-2011	74.73	8	27	3.92	0.88	3.92
124	Kachopani MHS	01-04-2014	149.46	5	30	7.84	1.76	7.84

Table5.2.2: Calculation of Depreciation for FY 2019-20

(In ₹ Lakhs)

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	Balance useful Life	Depreciation /year upto 12th yr	Depreciation from 13th yr	Depreciation for 2019-20
1	Kitpi Ph-I	01-04-1977	1120.98	43	0	58.82	13.18	0.00
2	Nuranang	01-04-1996	4035.53	24	11	211.74	47.44	47.44
3	T. Gompa	01-04-2001	37.37	19	16	1.96	0.44	0.44
4	Dudunghar (challengk-Ph1)	01-04-2004	22.42	16	19	1.18	0.26	0.26
5	Bramdhongchung	01-04-2008	74.73	12	23	3.92	0.88	3.92
6	Shakti Nallah	01-04-2008	74.73	12	23	3.92	0.88	3.92
7	Kitpi MHS Ph-II	01-04-2008	2241.96	12	23	117.64	26.35	117.64
8	Challengkang Ph-II	01-04-2008	22.42	12	23	1.18	0.26	1.18
9	Bongleng	01-04-2009	74.73	11	24	3.92	0.88	3.92
10	Thimbu	01-04-2009	74.73	11	24	3.92	0.88	3.92
11	Bramdhongchung Ph-II	01-04-2010	74.73	10	25	3.92	0.88	3.92
12	Tsechu Nallah	01-04-2010	74.73	10	25	3.92	0.88	3.92
13	Rahung	01-04-1972	560.49	7	28	29.41	6.59	29.41
14	Dirang	01-04-1977	1494.64	43	0	78.42	17.57	0.00
15	Sessa	01-04-1992	1120.98	28	7	58.82	13.18	13.18
16	Rupa	01-04-1997	149.46	23	12	7.84	1.76	1.76
17	Dokumpani	01-04-2000	22.42	20	15	1.18	0.26	0.26
18	Domkhong	01-04-2008	1494.64	12	23	78.42	17.57	78.42



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

19	Sinchung	01-04-2008	37.37	12	23	1.96	0.44	1.96
20	Ankaling	01-04-2009	22.42	11	24	1.18	0.26	1.18
21	Khet	01-04-2009	74.73	11	24	3.92	0.88	3.92
22	Mago MHS	01-04-2014	74.73	6	29	3.92	0.88	3.92
23	Dikshi	01-04-2010	22.42	10	25	1.18	0.26	1.18
24	Khadiyabey	01-04-2011	149.46	9	26	7.84	1.76	7.84
25	Saktangrong	01-04-2011	224.20	9	26	11.76	2.64	11.76
26	Jigaon	01-04-2016	74.73	4	31	3.92	0.88	3.92
27	Zhongdongrong	01-04-2016	747.32	4	31	39.21	8.78	39.21
28	Seppa	01-04-1980	224.20	40	0	11.76	2.64	0.00
29	Pakke Kessang	01-04-2001	22.42	19	16	1.18	0.26	0.26
30	Pacha MHS	01-04-2008	2241.96	12	23	117.64	26.35	117.64
31	Pakoti	01-04-2010	74.73	10	25	3.92	0.88	3.92
32	Patta Nallah	01-04-2010	74.73	10	25	3.92	0.88	3.92
33	Watte Mame	01-04-2010	37.37	10	25	1.96	0.44	1.96
34	Kade Nallah	01-04-2010	37.37	10	25	1.96	0.44	1.96
35	Kidding MHS	01-04-2017	373.66	3	32	19.61	4.39	19.61
36	Dumi Dutte	01-04-2017	22.42	3	32	1.18	0.26	1.18
37	Pappey Nallah	01-04-1995	7.47	25	10	0.39	0.09	0.09
38	Patte MHS at Tali	01-04-2004	22.42	16	19	1.18	0.26	0.26
39	Koye	01-04-2009	37.37	11	24	1.96	0.44	1.96
40	Chambang	01-04-2009	22.42	11	24	1.18	0.26	1.18
41	Paya MHS at Hiya	01-04-2011	74.73	9	26	3.92	0.88	3.92
42	Mai Ph-I	01-04-1977	1494.64	43	0	78.42	17.57	0.00
43	Mai Ph-II	01-04-1982	747.32	38	0	39.21	8.78	0.00
44	Tago	01-04-1992	3362.94	28	7	176.45	39.53	39.53



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

45	Dulom (Daporijo)	01-04-1981	298.93	39	0	15.68	3.51	0.00
46	Maro	01-04-2002	22.42	18	17	1.18	0.26	0.26
47	Sippi	01-04-2008	2989.28	12	23	156.85	35.14	156.85
48	Ayingmuri MHS	01-04-2012	186.83	8	27	9.80	2.20	9.80
49	Limeking MHS	01-04-2012	22.42	8	27	1.18	0.26	1.18
50	Pinto Karo MHS	01-04-2011	18.68	9	26	0.98	0.22	0.98
51	Sikin Karo	01-04-2011	149.46	9	26	7.84	1.76	7.84
52	Sinyum Koro	01-04-2011	74.73	9	26	3.92	0.88	3.92
53	Kojin Nallah	01-04-2011	74.73	9	26	3.92	0.88	3.92
54	Siyum	01-04-2005	22.42	15	20	1.18	0.26	0.26
55	Pagi (Basar)	01-04-1972	74.73	48	0	3.92	0.88	0.00
56	Along	01-04-1975	298.93	45	0	15.68	3.51	0.00
57	Ego-Echi (Dali)	01-04-1987	298.93	33	2	15.68	3.51	3.51
58	Mechuka	01-04-2015	112.10	5	30	5.88	1.32	5.88
59	Yomcha	01-04-2001	37.37	19	16	1.96	0.44	0.44
60	Beye	01-04-2004	22.42	16	19	1.18	0.26	0.26
61	Kambang	01-04-2008	4035.53	12	23	211.74	47.44	211.74
62	Liromoba	01-04-2008	1494.64	12	23	78.42	17.57	78.42
63	Yingko Sikong at Rapum	01-04-2009	37.37	11	24	1.96	0.44	1.96
64	Angu	01-04-2010	37.37	10	25	1.96	0.44	1.96
65	Solegomang MHS	01-04-2011	37.37	9	26	1.96	0.44	1.96
66	Borong MHS	01-04-2011	37.37	9	26	1.96	0.44	1.96
67	Sirikorang MHS	01-04-2013	373.66	7	28	19.61	4.39	19.61
68	Yingkiong Ph-I	01-04-1980	112.10	40	0	5.88	1.32	0.00
69	Sikut/ Tuting	01-04-1984	74.73	36	0	3.92	0.88	0.00
70	Yingkiong Ph-II	01-04-1992	149.46	28	7	7.84	1.76	1.76
71	Selli at Geku	01-04-1994	373.66	26	9	19.61	4.39	4.39



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

72	Sirnyuk	01-04-1996	1494.64	24	11	78.42	17.57	17.57
73	Kopu at Tuting	01-04-2007	186.83	13	22	9.80	2.20	2.20
74	Silingri	01-04-2008	37.37	12	23	1.96	0.44	1.96
75	Singa	01-04-2008	22.42	12	23	1.18	0.26	1.18
76	Ngaming	01-04-2008	37.37	12	23	1.96	0.44	1.96
77	Sika	01-04-2008	11.21	12	23	0.59	0.13	0.59
78	Mayung	01-04-2009	3.74	11	24	0.20	0.04	0.20
79	Gosang	01-04-2011	373.66	9	26	19.61	4.39	19.61
80	Kote MHS	01-04-2011	37.37	9	26	1.96	0.44	1.96
81	Sijen MHS at Adi pasi	01-04-2011	37.37	9	26	1.96	0.44	1.96
82	Pyabung MHS	01-04-2011	18.68	9	26	0.98	0.22	0.98
83	Pangkang MHS	01-04-1995	93.42	25	10	4.90	1.10	1.10
84	Pasighat	01-04-1974	149.46	46	0	7.84	1.76	0.00
85	Yembung	01-04-1994	1494.64	26	9	78.42	17.57	17.57
86	Silli	01-04-2001	22.42	19	16	1.18	0.26	0.26
87	Rina	01-04-2008	1494.64	12	23	78.42	17.57	78.42
88	Deopani Ph-I	01-04-1986	560.49	34	1	29.41	6.59	6.59
89	Abhapani	01-04-1994	336.29	26	9	17.65	3.95	3.95
90	Deopani Ph-II	01-04-2004	560.49	16	19	29.41	6.59	6.59
91	Anini/ Awapani Ph-I	01-04-1994	112.10	26	9	5.88	1.32	1.32
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	11	24	3.92	0.88	3.92
93	Chini Afra	01-04-2001	186.83	19	16	9.80	2.20	2.20
94	Echi Ahfra	01-04-2005	298.93	15	20	15.68	3.51	3.51
95	Awapani Ph-II	01-04-2005	373.66	15	20	19.61	4.39	4.39
96	Echito Nallah	01-04-2010	29.89	10	25	1.57	0.35	1.57
97	Rupapani	01-04-2010	29.89	10	25	1.57	0.35	1.57
98	Chu Nallah	01-04-2011	22.42	9	26	1.18	0.26	1.18



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

99	Awapani at Gepuline	01-04-2014	373.66	6	29	19.61	4.39	19.61
100	Mukto MHS	Under Trial Run	0.00	0	0	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	20	15	1.18	0.26	0.26
102	Dura Nallah	01-04-2013	373.66	7	28	19.61	4.39	19.61
103	Tafragram	01-04-1984	186.83	36	0	9.80	2.20	0.00
104	Kaho	01-04-2004	7.47	16	19	0.39	0.09	0.09
105	Kebitho	01-04-2004	22.42	16	19	1.18	0.26	0.26
106	Mati Nallah	01-04-2004	373.66	16	19	19.61	4.39	4.39
107	Yapak Nallah	01-04-2005	149.46	15	20	7.84	1.76	1.76
108	Teepani	01-04-2009	373.66	11	24	19.61	4.39	19.61
109	Krawti Nallah	01-04-2009	74.73	11	24	3.92	0.88	3.92
110	Hathipani	01-04-2009	74.73	11	24	3.92	0.88	3.92
111	Tah Nallah	01-04-2009	74.73	11	24	3.92	0.88	3.92
112	Maipani	01-04-2010	44.84	10	25	2.35	0.53	2.35
113	Ashapani	01-04-2011	44.84	9	26	2.35	0.53	2.35
114	Langpani	01-04-2011	298.93	9	26	15.68	3.51	15.68
115	Tissue	01-04-1986	298.93	34	1	15.68	3.51	3.51
116	Jongkey Nallah	01-04-2011	18.68	9	26	0.98	0.22	0.98
117	Ngonalo at Vijaynagar	01-04-2010	74.73	10	25	3.92	0.88	3.92
118	Tinning	01-04-2010	44.84	10	25	2.35	0.53	2.35
119	Chicklong	01-04-2011	112.10	9	26	5.88	1.32	5.88
120	Thiratju	01-04-1978	747.32	42	0	39.21	8.78	0.00
121	Charju	01-04-1984	448.39	36	0	23.53	5.27	0.00
122	Sumhok Nallah	01-04-2009	74.73	11	24	3.92	0.88	3.92
123	Tahin Nallah	01-04-2011	74.73	9	26	3.92	0.88	3.92



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

124	Kachopani MHS	01-04-2014	149.46	6	29	7.84	1.76	7.84
-----	---------------	------------	--------	---	----	------	------	------

Table5.2.3: Calculation of Depreciation for FY 2020-21

(In ₹ Lakhs)

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	Balance useful Life	Depreciation /year upto 12th yr	Depreciation from 13th yr	Depreciation for 2020-21
1	Kitpi Ph-I	01-04-1977	1120.98	44	0	58.82	13.18	0.00
2	Nuranang	01-04-1996	4035.53	25	10	211.74	47.44	47.44
3	T. Gompa	01-04-2001	37.37	20	15	1.96	0.44	0.44
4	Dudunghar (challengk-Ph1)	01-04-2004	22.42	17	18	1.18	0.26	0.26
5	Bramdhongchung	01-04-2008	74.73	13	22	3.92	0.88	0.88
6	Shakti Nallah	01-04-2008	74.73	13	22	3.92	0.88	0.88
7	Kitpi MHS Ph-II	01-04-2008	2241.96	13	22	117.64	26.35	26.35
8	Challengkang Ph-II	01-04-2008	22.42	13	22	1.18	0.26	0.26
9	Bongleng	01-04-2009	74.73	12	23	3.92	0.88	3.92
10	Thimbu	01-04-2009	74.73	12	23	3.92	0.88	3.92
11	Bramdhongchung Ph-II	01-04-2010	74.73	11	24	3.92	0.88	3.92
12	Tsechu Nallah	01-04-2010	74.73	11	24	3.92	0.88	3.92
13	Rahung	01-04-1972	560.49	8	27	29.41	6.59	29.41
14	Dirang	01-04-1977	1494.64	44	0	78.42	17.57	0.00
15	Sessa	01-04-1992	1120.98	29	6	58.82	13.18	13.18
16	Rupa	01-04-1997	149.46	24	11	7.84	1.76	1.76



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

17	Dokumpani	01-04-2000	22.42	21	14	1.18	0.26	0.26
18	Domkhong	01-04-2008	1494.64	13	22	78.42	17.57	17.57
19	Sinchung	01-04-2008	37.37	13	22	1.96	0.44	0.44
20	Ankaling	01-04-2009	22.42	12	23	1.18	0.26	1.18
21	Khet	01-04-2009	74.73	12	23	3.92	0.88	3.92
22	Mago MHS	01-04-2014	74.73	7	28	3.92	0.88	3.92
23	Dikshi	01-04-2010	22.42	11	24	1.18	0.26	1.18
24	Khadiyabey	01-04-2011	149.46	10	25	7.84	1.76	7.84
25	Saktangrong	01-04-2011	224.20	10	25	11.76	2.64	11.76
26	Jigaon	01-04-2016	74.73	5	30	3.92	0.88	3.92
27	Zhongdongrong	01-04-2016	747.32	5	30	39.21	8.78	39.21
28	Seppa	01-04-1980	224.20	41	0	11.76	2.64	0.00
29	Pakke Kessang	01-04-2001	22.42	20	15	1.18	0.26	0.26
30	Pacha MHS	01-04-2008	2241.96	13	22	117.64	26.35	26.35
31	Pakoti	01-04-2010	74.73	11	24	3.92	0.88	3.92
32	Patta Nallah	01-04-2010	74.73	11	24	3.92	0.88	3.92
33	Watte Mame	01-04-2010	37.37	11	24	1.96	0.44	1.96
34	Kade Nallah	01-04-2010	37.37	11	24	1.96	0.44	1.96
35	Kidding MHS	01-04-2017	373.66	4	31	19.61	4.39	19.61
36	Dumi Dutte	01-04-2017	22.42	4	31	1.18	0.26	1.18
37	Pappey Nallah	01-04-1995	7.47	26	9	0.39	0.09	0.09
38	Patte MHS at Tali	01-04-2004	22.42	17	18	1.18	0.26	0.26
39	Koye	01-04-2009	37.37	12	23	1.96	0.44	1.96
40	Chambang	01-04-2009	22.42	12	23	1.18	0.26	1.18
41	Paya MHS at Hiya	01-04-2011	74.73	10	25	3.92	0.88	3.92
42	Mai Ph-I	01-04-1977	1494.64	44	0	78.42	17.57	0.00
43	Mai Ph-II	01-04-1982	747.32	39	0	39.21	8.78	0.00



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

44	Tago	01-04-1992	3362.94	29	6	176.45	39.53	39.53
45	Dulom (Daporijo)	01-04-1981	298.93	40	0	15.68	3.51	0.00
46	Maro	01-04-2002	22.42	19	16	1.18	0.26	0.26
47	Sippi	01-04-2008	2989.28	13	22	156.85	35.14	35.14
48	Ayingmuri MHS	01-04-2012	186.83	9	26	9.80	2.20	9.80
49	Limeking MHS	01-04-2012	22.42	9	26	1.18	0.26	1.18
50	Pinto Karo MHS	01-04-2011	18.68	10	25	0.98	0.22	0.98
51	Sikin Karo	01-04-2011	149.46	10	25	7.84	1.76	7.84
52	Sinyum Koro	01-04-2011	74.73	10	25	3.92	0.88	3.92
53	Kojin Nallah	01-04-2011	74.73	10	25	3.92	0.88	3.92
54	Siyum	01-04-2005	22.42	16	19	1.18	0.26	0.26
55	Pagi (Basar)	01-04-1972	74.73	49	0	3.92	0.88	0.00
56	Along	01-04-1975	298.93	46	0	15.68	3.51	0.00
57	Ego-Echi (Dali)	01-04-1987	298.93	34	1	15.68	3.51	3.51
58	Mechuka	01-04-2015	112.10	6	29	5.88	1.32	5.88
59	Yomcha	01-04-2001	37.37	20	15	1.96	0.44	0.44
60	Beye	01-04-2004	22.42	17	18	1.18	0.26	0.26
61	Kambang	01-04-2008	4035.53	13	22	211.74	47.44	47.44
62	Liromoba	01-04-2008	1494.64	13	22	78.42	17.57	17.57
63	Yingko Sikong at Rapum	01-04-2009	37.37	12	23	1.96	0.44	1.96
64	Angu	01-04-2010	37.37	11	24	1.96	0.44	1.96
65	Solegomang MHS	01-04-2011	37.37	10	25	1.96	0.44	1.96
66	Borong MHS	01-04-2011	37.37	10	25	1.96	0.44	1.96
67	Sirikorang MHS	01-04-2013	373.66	8	27	19.61	4.39	19.61
68	Yingkiong Ph-I	01-04-1980	112.10	41	0	5.88	1.32	0.00
69	Sikut/ Tuting	01-04-1984	74.73	37	0	3.92	0.88	0.00
70	Yingkiong Ph-II	01-04-1992	149.46	29	6	7.84	1.76	1.76



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

71	Selli at Geku	01-04-1994	373.66	27	8	19.61	4.39	4.39
72	Sirnyuk	01-04-1996	1494.64	25	10	78.42	17.57	17.57
73	Kopu at Tuting	01-04-2007	186.83	14	21	9.80	2.20	2.20
74	Silingri	01-04-2008	37.37	13	22	1.96	0.44	0.44
75	Singa	01-04-2008	22.42	13	22	1.18	0.26	0.26
76	Ngaming	01-04-2008	37.37	13	22	1.96	0.44	0.44
77	Sika	01-04-2008	11.21	13	22	0.59	0.13	0.13
78	Mayung	01-04-2009	3.74	12	23	0.20	0.04	0.20
79	Gosang	01-04-2011	373.66	10	25	19.61	4.39	19.61
80	Kote MHS	01-04-2011	37.37	10	25	1.96	0.44	1.96
81	Sijen MHS at Adi pasi	01-04-2011	37.37	10	25	1.96	0.44	1.96
82	Pyabung MHS	01-04-2011	18.68	10	25	0.98	0.22	0.98
83	Pangkang MHS	01-04-1995	93.42	26	9	4.90	1.10	1.10
84	Pasighat	01-04-1974	149.46	47	0	7.84	1.76	0.00
85	Yembung	01-04-1994	1494.64	27	8	78.42	17.57	17.57
86	Silli	01-04-2001	22.42	20	15	1.18	0.26	0.26
87	Rina	01-04-2008	1494.64	13	22	78.42	17.57	17.57
88	Deopani Ph-I	01-04-1986	560.49	35	0	29.41	6.59	6.59
89	Abhapani	01-04-1994	336.29	27	8	17.65	3.95	3.95
90	Deopani Ph-II	01-04-2004	560.49	17	18	29.41	6.59	6.59
91	Anini/ Awapani Ph-I	01-04-1994	112.10	27	8	5.88	1.32	1.32
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	12	23	3.92	0.88	3.92
93	Chini Afra	01-04-2001	186.83	20	15	9.80	2.20	2.20
94	Echi Ahfra	01-04-2005	298.93	16	19	15.68	3.51	3.51
95	Awapani Ph-II	01-04-2005	373.66	16	19	19.61	4.39	4.39
96	Echito Nallah	01-04-2010	29.89	11	24	1.57	0.35	1.57
97	Rupapani	01-04-2010	29.89	11	24	1.57	0.35	1.57



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

98	Chu Nallah	01-04-2011	22.42	10	25	1.18	0.26	1.18
99	Awapani at Gepuline	01-04-2014	373.66	7	28	19.61	4.39	19.61
100	Mukto MHS	Under Trial Run	0.00	0	0	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	21	14	1.18	0.26	0.26
102	Dura Nallah	01-04-2013	373.66	8	27	19.61	4.39	19.61
103	Tafragram	01-04-1984	186.83	37	0	9.80	2.20	0.00
104	Kaho	01-04-2004	7.47	17	18	0.39	0.09	0.09
105	Kebitho	01-04-2004	22.42	17	18	1.18	0.26	0.26
106	Mati Nallah	01-04-2004	373.66	17	18	19.61	4.39	4.39
107	Yapak Nallah	01-04-2005	149.46	16	19	7.84	1.76	1.76
108	Teepani	01-04-2009	373.66	12	23	19.61	4.39	19.61
109	Krawti Nallah	01-04-2009	74.73	12	23	3.92	0.88	3.92
110	Hathipani	01-04-2009	74.73	12	23	3.92	0.88	3.92
111	Tah Nallah	01-04-2009	74.73	12	23	3.92	0.88	3.92
112	Maipani	01-04-2010	44.84	11	24	2.35	0.53	2.35
113	Ashapani	01-04-2011	44.84	10	25	2.35	0.53	2.35
114	Langpani	01-04-2011	298.93	10	25	15.68	3.51	15.68
115	Tissue	01-04-1986	298.93	35	0	15.68	3.51	3.51
116	Jongkey Nallah	01-04-2011	18.68	10	25	0.98	0.22	0.98
117	Ngonalo at Vijaynagar	01-04-2010	74.73	11	24	3.92	0.88	3.92
118	Tinning	01-04-2010	44.84	11	24	2.35	0.53	2.35
119	Chicklong	01-04-2011	112.10	10	25	5.88	1.32	5.88
120	Thiratju	01-04-1978	747.32	43	0	39.21	8.78	0.00
121	Charju	01-04-1984	448.39	37	0	23.53	5.27	0.00
122	Sumhok Nallah	01-04-2009	74.73	12	23	3.92	0.88	3.92



Petition for Approval of Business Plan and Multi Year Tariff for the FY 2018-19 to 2020-21

123	Tahin Nallah	01-04-2011	74.73	10	25	3.92	0.88	3.92
124	Kachopani MHS	01-04-2014	149.46	7	28	7.84	1.76	7.84

The Hon'ble Commission is requested to kindly consider & approve the Depreciation as proposed above.

5.3 RETURN ON EQUITY

The value base for equity has been considered in accordance with Regulation 16 of Renewable Energy Regulations, 2012 at 30% of the capital cost, as determined in Section 4 of this petition. Return on Equity has been calculated on the base value of equity @ 20% for the first 10 years of operation & @ 24% per annum from 11th year onwards. The SHP wise RoE is provided in the table below:

Table 5.3.1: Return on Equity for the FY 2018-19

(In ₹ Lakhs)

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	RoE %	RoE
1	Kitpi Ph-I	01-04-1977	1120.98	42	24%	80.71
2	Nuranang	01-04-1996	4035.53	23	24%	290.56
3	T. Gompa	01-04-2001	37.37	18	24%	2.69
4	Dudunghar (challengk- Ph1)	01-04-2004	22.42	15	24%	1.61
5	Bramdhongchung	01-04-2008	74.73	11	24%	5.38
6	Shakti Nallah	01-04-2008	74.73	11	24%	5.38
7	Kitpi MHS Ph-II	01-04-2008	2241.96	11	24%	161.42
8	Challengkang Ph-II	01-04-2008	22.42	11	24%	1.61
9	Bongleng	01-04-2009	74.73	10	20%	4.48
10	Thimbu	01-04-2009	74.73	10	20%	4.48
11	Bramdhongchung Ph-II	01-04-2010	74.73	9	20%	4.48
12	Tsechu Nallah	01-04-2010	74.73	9	20%	4.48
13	Rahung	01-04-1972	560.49	6	20%	33.63
14	Dirang	01-04-1977	1494.64	42	24%	107.61
15	Sessa	01-04-1992	1120.98	27	24%	80.71
16	Rupa	01-04-1997	149.46	22	24%	10.76
17	Dokumpani	01-04-2000	22.42	19	24%	1.61
18	Domkhong	01-04-2008	1494.64	11	24%	107.61
19	Sinchung	01-04-2008	37.37	11	24%	2.69
20	Ankaling	01-04-2009	22.42	10	20%	1.35
21	Khet	01-04-2009	74.73	10	20%	4.48
22	Mago MHS	01-04-2014	74.73	5	20%	4.48
23	Dikshi	01-04-2010	22.42	9	20%	1.35
24	Khadiyabey	01-04-2011	149.46	8	20%	8.97
25	Saktangrong	01-04-2011	224.20	8	20%	13.45



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

26	Jigaon	01-04-2016	74.73	3	20%	4.48
27	Zhongdongrong	01-04-2016	747.32	3	20%	44.84
28	Seppa	01-04-1980	224.20	39	24%	16.14
29	Pakke Kessang	01-04-2001	22.42	18	24%	1.61
30	Pacha MHS	01-04-2008	2241.96	11	24%	161.42
31	Pakoti	01-04-2010	74.73	9	20%	4.48
32	Patta Nallah	01-04-2010	74.73	9	20%	4.48
33	Watte Mame	01-04-2010	37.37	9	20%	2.24
34	Kade Nallah	01-04-2010	37.37	9	20%	2.24
35	Kidding MHS	01-04-2017	373.66	2	20%	22.42
36	Dumi Dutte	01-04-2017	22.42	2	20%	1.35
37	Pappey Nallah	01-04-1995	7.47	24	24%	0.54
38	Patte MHS at Tali	01-04-2004	22.42	15	24%	1.61
39	Koye	01-04-2009	37.37	10	20%	2.24
40	Chambang	01-04-2009	22.42	10	20%	1.35
41	Paya MHS at Hiya	01-04-2011	74.73	8	20%	4.48
42	Mai Ph-I	01-04-1977	1494.64	42	24%	107.61
43	Mai Ph-II	01-04-1982	747.32	37	24%	53.81
44	Tago	01-04-1992	3362.94	27	24%	242.13
45	Dulom (Daporijo)	01-04-1981	298.93	38	24%	21.52
46	Maro	01-04-2002	22.42	17	24%	1.61
47	Sippi	01-04-2008	2989.28	11	24%	215.23
48	Ayingmuri MHS	01-04-2012	186.83	7	20%	11.21
49	Limeking MHS	01-04-2012	22.42	7	20%	1.35
50	Pinto Karo MHS	01-04-2011	18.68	8	20%	1.12
51	Sikin Karo	01-04-2011	149.46	8	20%	8.97
52	Sinyum Koro	01-04-2011	74.73	8	20%	4.48
53	Kojin Nallah	01-04-2011	74.73	8	20%	4.48
54	Siyum	01-04-2005	22.42	14	24%	1.61
55	Pagi (Basar)	01-04-1972	74.73	47	24%	5.38
56	Along	01-04-1975	298.93	44	24%	21.52
57	Ego-Echi (Dali)	01-04-1987	298.93	32	24%	21.52
58	Mechuka	01-04-2015	112.10	4	20%	6.73
59	Yomcha	01-04-2001	37.37	18	24%	2.69
60	Beye	01-04-2004	22.42	15	24%	1.61
61	Kambang	01-04-2008	4035.53	11	24%	290.56
62	Liromoba	01-04-2008	1494.64	11	24%	107.61
63	Yingko Sikong at Rapum	01-04-2009	37.37	10	20%	2.24
64	Angu	01-04-2010	37.37	9	20%	2.24
65	Solegomang MHS	01-04-2011	37.37	8	20%	2.24
66	Borong MHS	01-04-2011	37.37	8	20%	2.24
67	Sirikorang MHS	01-04-2013	373.66	6	20%	22.42



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

68	Yingkiong Ph-I	01-04-1980	112.10	39	24%	8.07
69	Sikut/ Tuting	01-04-1984	74.73	35	24%	5.38
70	Yingkiong Ph-II	01-04-1992	149.46	27	24%	10.76
71	Selli at Geku	01-04-1994	373.66	25	24%	26.90
72	Sirnyuk	01-04-1996	1494.64	23	24%	107.61
73	Kopu at Tuting	01-04-2007	186.83	12	24%	13.45
74	Silingri	01-04-2008	37.37	11	24%	2.69
75	Singa	01-04-2008	22.42	11	24%	1.61
76	Ngaming	01-04-2008	37.37	11	24%	2.69
77	Sika	01-04-2008	11.21	11	24%	0.81
78	Mayung	01-04-2009	3.74	10	20%	0.22
79	Gosang	01-04-2011	373.66	8	20%	22.42
80	Kote MHS	01-04-2011	37.37	8	20%	2.24
81	Sijen MHS at Adi pasi	01-04-2011	37.37	8	20%	2.24
82	Pyabung MHS	01-04-2011	18.68	8	20%	1.12
83	Pangkang MHS	01-04-1995	93.42	24	24%	6.73
84	Pasighat	01-04-1974	149.46	45	24%	10.76
85	Yembung	01-04-1994	1494.64	25	24%	107.61
86	Silli	01-04-2001	22.42	18	24%	1.61
87	Rina	01-04-2008	1494.64	11	24%	107.61
88	Deopani Ph-I	01-04-1986	560.49	33	24%	40.36
89	Abhapani	01-04-1994	336.29	25	24%	24.21
90	Deopani Ph-II	01-04-2004	560.49	15	24%	40.36
91	Anini/ Awapani Ph-I	01-04-1994	112.10	25	24%	8.07
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	10	20%	4.48
93	Chini Afra	01-04-2001	186.83	18	24%	13.45
94	Echi Ahfra	01-04-2005	298.93	14	24%	21.52
95	Awapani Ph-II	01-04-2005	373.66	14	24%	26.90
96	Echito Nallah	01-04-2010	29.89	9	20%	1.79
97	Rupapani	01-04-2010	29.89	9	20%	1.79
98	Chu Nallah	01-04-2011	22.42	8	20%	1.35
99	Awapani at Gepuline	01-04-2014	373.66	5	20%	22.42
100	Mukto MHS	Under Trial Run	0.00	0	20%	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	19	24%	1.61
102	Dura Nallah	01-04-2013	373.66	6	20%	22.42
103	Tafragram	01-04-1984	186.83	35	24%	13.45
104	Kaho	01-04-2004	7.47	15	24%	0.54
105	Kebitho	01-04-2004	22.42	15	24%	1.61
106	Mati Nallah	01-04-2004	373.66	15	24%	26.90
107	Yapak Nallah	01-04-2005	149.46	14	24%	10.76
108	Teepani	01-04-2009	373.66	10	20%	22.42



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

109	Krawti Nallah	01-04-2009	74.73	10	20%	4.48
110	Hathipani	01-04-2009	74.73	10	20%	4.48
111	Tah Nallah	01-04-2009	74.73	10	20%	4.48
112	Maipani	01-04-2010	44.84	9	20%	2.69
113	Ashapani	01-04-2011	44.84	8	20%	2.69
114	Langpani	01-04-2011	298.93	8	20%	17.94
115	Tissue	01-04-1986	298.93	33	24%	21.52
116	Jongkey Nallah	01-04-2011	18.68	8	20%	1.12
117	Ngonalo at Vijaynagar	01-04-2010	74.73	9	20%	4.48
118	Tinning	01-04-2010	44.84	9	20%	2.69
119	Chicklong	01-04-2011	112.10	8	20%	6.73
120	Thiratju	01-04-1978	747.32	41	24%	53.81
121	Charju	01-04-1984	448.39	35	24%	32.28
122	Sumhok Nallah	01-04-2009	74.73	10	20%	4.48
123	Tahin Nallah	01-04-2011	74.73	8	20%	4.48
124	Kachopani MHS	01-04-2014	149.46	5	20%	8.97

Table 5.3.2: Return on Equity for the FY 2019-20

(In ₹ Lakhs)

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	RoE %	RoE
1	Kitpi Ph-I	01-04-1977	1120.98	43	24%	80.71
2	Nuranang	01-04-1996	4035.53	24	24%	290.56
3	T. Gompa	01-04-2001	37.37	19	24%	2.69
4	Dudunghar (challengk- Ph1)	01-04-2004	22.42	16	24%	1.61
5	Bramdhongchung	01-04-2008	74.73	12	24%	5.38
6	Shakti Nallah	01-04-2008	74.73	12	24%	5.38
7	Kitpi MHS Ph-II	01-04-2008	2241.96	12	24%	161.42
8	Challengkang Ph-II	01-04-2008	22.42	12	24%	1.61
9	Bongleng	01-04-2009	74.73	11	24%	5.38
10	Thimbu	01-04-2009	74.73	11	24%	5.38
11	Bramdhongchung Ph-II	01-04-2010	74.73	10	20%	4.48
12	Tsechu Nallah	01-04-2010	74.73	10	20%	4.48
13	Rahung	01-04-1972	560.49	7	20%	33.63
14	Dirang	01-04-1977	1494.64	43	24%	107.61
15	Sessa	01-04-1992	1120.98	28	24%	80.71
16	Rupa	01-04-1997	149.46	23	24%	10.76
17	Dokumpani	01-04-2000	22.42	20	24%	1.61
18	Domkhong	01-04-2008	1494.64	12	24%	107.61
19	Sinchung	01-04-2008	37.37	12	24%	2.69



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

20	Ankaling	01-04-2009	22.42	11	24%	1.61
21	Khet	01-04-2009	74.73	11	24%	5.38
22	Mago MHS	01-04-2014	74.73	6	20%	4.48
23	Dikshi	01-04-2010	22.42	10	20%	1.35
24	Khadiyabey	01-04-2011	149.46	9	20%	8.97
25	Saktangrong	01-04-2011	224.20	9	20%	13.45
26	Jigaon	01-04-2016	74.73	4	20%	4.48
27	Zhongdongrong	01-04-2016	747.32	4	20%	44.84
28	Seppa	01-04-1980	224.20	40	24%	16.14
29	Pakke Kessang	01-04-2001	22.42	19	24%	1.61
30	Pacha MHS	01-04-2008	2241.96	12	24%	161.42
31	Pakoti	01-04-2010	74.73	10	20%	4.48
32	Patta Nallah	01-04-2010	74.73	10	20%	4.48
33	Watte Mame	01-04-2010	37.37	10	20%	2.24
34	Kade Nallah	01-04-2010	37.37	10	20%	2.24
35	Kidding MHS	01-04-2017	373.66	3	20%	22.42
36	Dumi Dutte	01-04-2017	22.42	3	20%	1.35
37	Pappey Nallah	01-04-1995	7.47	25	24%	0.54
38	Patte MHS at Tali	01-04-2004	22.42	16	24%	1.61
39	Koye	01-04-2009	37.37	11	24%	2.69
40	Chambang	01-04-2009	22.42	11	24%	1.61
41	Paya MHS at Hiya	01-04-2011	74.73	9	20%	4.48
42	Mai Ph-I	01-04-1977	1494.64	43	24%	107.61
43	Mai Ph-II	01-04-1982	747.32	38	24%	53.81
44	Tago	01-04-1992	3362.94	28	24%	242.13
45	Dulom (Daporijo)	01-04-1981	298.93	39	24%	21.52
46	Maro	01-04-2002	22.42	18	24%	1.61
47	Sippi	01-04-2008	2989.28	12	24%	215.23
48	Ayingmuri MHS	01-04-2012	186.83	8	20%	11.21
49	Limeking MHS	01-04-2012	22.42	8	20%	1.35
50	Pinto Karo MHS	01-04-2011	18.68	9	20%	1.12
51	Sikin Karo	01-04-2011	149.46	9	20%	8.97
52	Sinyum Koro	01-04-2011	74.73	9	20%	4.48
53	Kojin Nallah	01-04-2011	74.73	9	20%	4.48
54	Siyum	01-04-2005	22.42	15	24%	1.61
55	Pagi (Basar)	01-04-1972	74.73	48	24%	5.38
56	Along	01-04-1975	298.93	45	24%	21.52
57	Ego-Echi (Dali)	01-04-1987	298.93	33	24%	21.52
58	Mechuka	01-04-2015	112.10	5	20%	6.73
59	Yomcha	01-04-2001	37.37	19	24%	2.69
60	Beye	01-04-2004	22.42	16	24%	1.61
61	Kambang	01-04-2008	4035.53	12	24%	290.56



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

62	Liromoba	01-04-2008	1494.64	12	24%	107.61
63	Yingko Sikong at Rapum	01-04-2009	37.37	11	24%	2.69
64	Angu	01-04-2010	37.37	10	20%	2.24
65	Solegomang MHS	01-04-2011	37.37	9	20%	2.24
66	Borong MHS	01-04-2011	37.37	9	20%	2.24
67	Sirikorang MHS	01-04-2013	373.66	7	20%	22.42
68	Yingkiong Ph-I	01-04-1980	112.10	40	24%	8.07
69	Sikut/ Tuting	01-04-1984	74.73	36	24%	5.38
70	Yingkiong Ph-II	01-04-1992	149.46	28	24%	10.76
71	Selli at Geku	01-04-1994	373.66	26	24%	26.90
72	Sirnyuk	01-04-1996	1494.64	24	24%	107.61
73	Kopu at Tuting	01-04-2007	186.83	13	24%	13.45
74	Silingri	01-04-2008	37.37	12	24%	2.69
75	Singa	01-04-2008	22.42	12	24%	1.61
76	Ngaming	01-04-2008	37.37	12	24%	2.69
77	Sika	01-04-2008	11.21	12	24%	0.81
78	Mayung	01-04-2009	3.74	11	24%	0.27
79	Gosang	01-04-2011	373.66	9	20%	22.42
80	Kote MHS	01-04-2011	37.37	9	20%	2.24
81	Sijen MHS at Adi pasi	01-04-2011	37.37	9	20%	2.24
82	Pyabung MHS	01-04-2011	18.68	9	20%	1.12
83	Pangkang MHS	01-04-1995	93.42	25	24%	6.73
84	Pasighat	01-04-1974	149.46	46	24%	10.76
85	Yembung	01-04-1994	1494.64	26	24%	107.61
86	Silli	01-04-2001	22.42	19	24%	1.61
87	Rina	01-04-2008	1494.64	12	24%	107.61
88	Deopani Ph-I	01-04-1986	560.49	34	24%	40.36
89	Abhapani	01-04-1994	336.29	26	24%	24.21
90	Deopani Ph-II	01-04-2004	560.49	16	24%	40.36
91	Anini/ Awapani Ph-I	01-04-1994	112.10	26	24%	8.07
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	11	24%	5.38
93	Chini Afra	01-04-2001	186.83	19	24%	13.45
94	Echi Ahfra	01-04-2005	298.93	15	24%	21.52
95	Awapani Ph-II	01-04-2005	373.66	15	24%	26.90
96	Echito Nallah	01-04-2010	29.89	10	20%	1.79
97	Rupapani	01-04-2010	29.89	10	20%	1.79
98	Chu Nallah	01-04-2011	22.42	9	20%	1.35
99	Awapani at Gepuline	01-04-2014	373.66	6	20%	22.42
100	Mukto MHS	Under Trial Run	0.00	0	20%	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	20	24%	1.61
102	Dura Nallah	01-04-2013	373.66	7	20%	22.42

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

103	Tafragram	01-04-1984	186.83	36	24%	13.45
104	Kaho	01-04-2004	7.47	16	24%	0.54
105	Kebitho	01-04-2004	22.42	16	24%	1.61
106	Mati Nallah	01-04-2004	373.66	16	24%	26.90
107	Yapak Nallah	01-04-2005	149.46	15	24%	10.76
108	Teepani	01-04-2009	373.66	11	24%	26.90
109	Krawti Nallah	01-04-2009	74.73	11	24%	5.38
110	Hathipani	01-04-2009	74.73	11	24%	5.38
111	Tah Nallah	01-04-2009	74.73	11	24%	5.38
112	Maipani	01-04-2010	44.84	10	20%	2.69
113	Ashapani	01-04-2011	44.84	9	20%	2.69
114	Langpani	01-04-2011	298.93	9	20%	17.94
115	Tissue	01-04-1986	298.93	34	24%	21.52
116	Jongkey Nallah	01-04-2011	18.68	9	20%	1.12
117	Ngonalo at Vijaynagar	01-04-2010	74.73	10	20%	4.48
118	Tinning	01-04-2010	44.84	10	20%	2.69
119	Chicklong	01-04-2011	112.10	9	20%	6.73
120	Thiratju	01-04-1978	747.32	42	24%	53.81
121	Charju	01-04-1984	448.39	36	24%	32.28
122	Sumhok Nallah	01-04-2009	74.73	11	24%	5.38
123	Tahin Nallah	01-04-2011	74.73	9	20%	4.48
124	Kachopani MHS	01-04-2014	149.46	6	20%	8.97

Table 5.3.3: Return on Equity for the FY 2020-21

(In ₹ Lakhs)

Sl. No.	Name of Station	Date of COD	Capital Cost	No. of Years since COD	RoE %	RoE
1	Kitpi Ph-I	01-04-1977	1120.98	44	24%	80.71
2	Nuranang	01-04-1996	4035.53	25	24%	290.56
3	T. Gompa	01-04-2001	37.37	20	24%	2.69
4	Dudunghar (chellengk- Ph1)	01-04-2004	22.42	17	24%	1.61
5	Bramdhongchung	01-04-2008	74.73	13	24%	5.38
6	Shakti Nallah	01-04-2008	74.73	13	24%	5.38
7	Kitpi MHS Ph-II	01-04-2008	2241.96	13	24%	161.42
8	Chellengkang Ph-II	01-04-2008	22.42	13	24%	1.61
9	Bongleng	01-04-2009	74.73	12	24%	5.38
10	Thimbu	01-04-2009	74.73	12	24%	5.38
11	Bramdhongchung Ph-II	01-04-2010	74.73	11	24%	5.38
12	Tsechu Nallah	01-04-2010	74.73	11	24%	5.38
13	Rahung	01-04-1972	560.49	8	20%	33.63



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

14	Dirang	01-04-1977	1494.64	44	24%	107.61
15	Sessa	01-04-1992	1120.98	29	24%	80.71
16	Rupa	01-04-1997	149.46	24	24%	10.76
17	Dokumpani	01-04-2000	22.42	21	24%	1.61
18	Domkhong	01-04-2008	1494.64	13	24%	107.61
19	Sinchung	01-04-2008	37.37	13	24%	2.69
20	Ankaling	01-04-2009	22.42	12	24%	1.61
21	Khet	01-04-2009	74.73	12	24%	5.38
22	Mago MHS	01-04-2014	74.73	7	20%	4.48
23	Dikshi	01-04-2010	22.42	11	24%	1.61
24	Khadiyabey	01-04-2011	149.46	10	20%	8.97
25	Saktangrong	01-04-2011	224.20	10	20%	13.45
26	Jigaon	01-04-2016	74.73	5	20%	4.48
27	Zhongdongrong	01-04-2016	747.32	5	20%	44.84
28	Seppa	01-04-1980	224.20	41	24%	16.14
29	Pakke Kessang	01-04-2001	22.42	20	24%	1.61
30	Pacha MHS	01-04-2008	2241.96	13	24%	161.42
31	Pakoti	01-04-2010	74.73	11	24%	5.38
32	Patta Nallah	01-04-2010	74.73	11	24%	5.38
33	Watte Mame	01-04-2010	37.37	11	24%	2.69
34	Kade Nallah	01-04-2010	37.37	11	24%	2.69
35	Kidding MHS	01-04-2017	373.66	4	20%	22.42
36	Dumi Dutte	01-04-2017	22.42	4	20%	1.35
37	Pappey Nallah	01-04-1995	7.47	26	24%	0.54
38	Patte MHS at Tali	01-04-2004	22.42	17	24%	1.61
39	Koye	01-04-2009	37.37	12	24%	2.69
40	Chambang	01-04-2009	22.42	12	24%	1.61
41	Paya MHS at Hiya	01-04-2011	74.73	10	20%	4.48
42	Mai Ph-I	01-04-1977	1494.64	44	24%	107.61
43	Mai Ph-II	01-04-1982	747.32	39	24%	53.81
44	Tago	01-04-1992	3362.94	29	24%	242.13
45	Dulom (Daporijo)	01-04-1981	298.93	40	24%	21.52
46	Maro	01-04-2002	22.42	19	24%	1.61
47	Sippi	01-04-2008	2989.28	13	24%	215.23
48	Ayingmuri MHS	01-04-2012	186.83	9	20%	11.21
49	Limeking MHS	01-04-2012	22.42	9	20%	1.35
50	Pinto Karo MHS	01-04-2011	18.68	10	20%	1.12
51	Sikin Karo	01-04-2011	149.46	10	20%	8.97
52	Sinyum Koro	01-04-2011	74.73	10	20%	4.48
53	Kojin Nallah	01-04-2011	74.73	10	20%	4.48
54	Siyum	01-04-2005	22.42	16	24%	1.61
55	Pagi (Basar)	01-04-1972	74.73	49	24%	5.38



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

56	Along	01-04-1975	298.93	46	24%	21.52
57	Ego-Echi (Dali)	01-04-1987	298.93	34	24%	21.52
58	Mechuka	01-04-2015	112.10	6	20%	6.73
59	Yomcha	01-04-2001	37.37	20	24%	2.69
60	Beye	01-04-2004	22.42	17	24%	1.61
61	Kambang	01-04-2008	4035.53	13	24%	290.56
62	Liromoba	01-04-2008	1494.64	13	24%	107.61
63	Yingko Sikong at Rapum	01-04-2009	37.37	12	24%	2.69
64	Angu	01-04-2010	37.37	11	24%	2.69
65	Solegomang MHS	01-04-2011	37.37	10	20%	2.24
66	Borong MHS	01-04-2011	37.37	10	20%	2.24
67	Sirikorang MHS	01-04-2013	373.66	8	20%	22.42
68	Yingkiong Ph-I	01-04-1980	112.10	41	24%	8.07
69	Sikut/ Tuting	01-04-1984	74.73	37	24%	5.38
70	Yingkiong Ph-II	01-04-1992	149.46	29	24%	10.76
71	Selli at Geku	01-04-1994	373.66	27	24%	26.90
72	Sirnyuk	01-04-1996	1494.64	25	24%	107.61
73	Kopu at Tuting	01-04-2007	186.83	14	24%	13.45
74	Silingri	01-04-2008	37.37	13	24%	2.69
75	Singa	01-04-2008	22.42	13	24%	1.61
76	Ngaming	01-04-2008	37.37	13	24%	2.69
77	Sika	01-04-2008	11.21	13	24%	0.81
78	Mayung	01-04-2009	3.74	12	24%	0.27
79	Gosang	01-04-2011	373.66	10	20%	22.42
80	Kote MHS	01-04-2011	37.37	10	20%	2.24
81	Sijen MHS at Adi pasi	01-04-2011	37.37	10	20%	2.24
82	Pyabung MHS	01-04-2011	18.68	10	20%	1.12
83	Pangkang MHS	01-04-1995	93.42	26	24%	6.73
84	Pasighat	01-04-1974	149.46	47	24%	10.76
85	Yembung	01-04-1994	1494.64	27	24%	107.61
86	Silli	01-04-2001	22.42	20	24%	1.61
87	Rina	01-04-2008	1494.64	13	24%	107.61
88	Deopani Ph-I	01-04-1986	560.49	35	24%	40.36
89	Abhapani	01-04-1994	336.29	27	24%	24.21
90	Deopani Ph-II	01-04-2004	560.49	17	24%	40.36
91	Anini/ Awapani Ph-I	01-04-1994	112.10	27	24%	8.07
92	Tah Ahfra Ph-I & Ph-II	01-04-2009	74.73	12	24%	5.38
93	Chini Afra	01-04-2001	186.83	20	24%	13.45
94	Echi Ahfra	01-04-2005	298.93	16	24%	21.52
95	Awapani Ph-II	01-04-2005	373.66	16	24%	26.90
96	Echito Nallah	01-04-2010	29.89	11	24%	2.15
97	Rupapani	01-04-2010	29.89	11	24%	2.15

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

98	Chu Nallah	01-04-2011	22.42	10	20%	1.35
99	Awapani at Gepuline	01-04-2014	373.66	7	20%	22.42
100	Mukto MHS	Under Trial Run	0.00	0	20%	0.00
101	Theya Ahfra at Jambupani	01-04-2000	22.42	21	24%	1.61
102	Dura Nallah	01-04-2013	373.66	8	20%	22.42
103	Tafragram	01-04-1984	186.83	37	24%	13.45
104	Kaho	01-04-2004	7.47	17	24%	0.54
105	Kebitho	01-04-2004	22.42	17	24%	1.61
106	Mati Nallah	01-04-2004	373.66	17	24%	26.90
107	Yapak Nallah	01-04-2005	149.46	16	24%	10.76
108	Teepani	01-04-2009	373.66	12	24%	26.90
109	Krawti Nallah	01-04-2009	74.73	12	24%	5.38
110	Hathipani	01-04-2009	74.73	12	24%	5.38
111	Tah Nallah	01-04-2009	74.73	12	24%	5.38
112	Maipani	01-04-2010	44.84	11	24%	3.23
113	Ashapani	01-04-2011	44.84	10	20%	2.69
114	Langpani	01-04-2011	298.93	10	20%	17.94
115	Tissue	01-04-1986	298.93	35	24%	21.52
116	Jongkey Nallah	01-04-2011	18.68	10	20%	1.12
117	Ngonalo at Vijaynagar	01-04-2010	74.73	11	24%	5.38
118	Tinning	01-04-2010	44.84	11	24%	3.23
119	Chicklong	01-04-2011	112.10	10	20%	6.73
120	Thiratju	01-04-1978	747.32	43	24%	53.81
121	Charju	01-04-1984	448.39	37	24%	32.28
122	Sumhok Nallah	01-04-2009	74.73	12	24%	5.38
123	Tahin Nallah	01-04-2011	74.73	10	20%	4.48
124	Kachopani MHS	01-04-2014	149.46	7	20%	8.97

The Hon'ble Commission is requested to kindly consider & approve the Return on Equity as proposed above.

5.4 Interest on Working Capital

Working capital has been calculated in accordance with the regulation 17(1) of the APSPERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 along with amendments. The following components of the working capital has been considered-

- i. O&M expenses for one month,
- ii. Receivables equivalent to 2 months of enenergy sales
- iii. Maintenance spares @ 15% of O&M expenses.

The Interest on working capital has been calculated as per Regulation 17(3) of APSERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 at average State Bank of India Base Rate prevalent during first six months of the previous year plus 350 basis points.

In terms of the above submission, interest on working capital for the SHPs for the control period is provided below:

Table 5.4.1: Interest on Working Capital for the FY 2018-19
(In ₹ Lakhs)

Sl. No.	Name of Station	Operation & Maintenance Exp. For one Month	Receivables for two months	Maintenance Spares - 15% of O&M	Total	Interest
		One Month	Two Months	15%		12.20%
1	Kitpi Ph-I	4.36	22.89	7.85	35.11	4.28
2	Nuranang	12.57	83.88	22.62	119.07	14.53
3	T. Gompa	0.15	0.84	0.26	1.25	0.15
4	Dudunghar (challengk-Ph1)	0.09	0.50	0.16	0.75	0.09
5	Bramdhongchung	0.29	3.23	0.52	4.05	0.49
6	Shakti Nallah	0.29	3.23	0.52	4.05	0.49
7	Kitpi MHS Ph-II	8.73	97.03	15.71	121.47	14.82
8	Challengkang Ph-II	0.09	0.97	0.16	1.21	0.15
9	Bongleng	0.29	3.08	0.52	3.90	0.48
10	Thimbu	0.29	3.08	0.52	3.90	0.48
11	Bramdhongchung Ph-II	0.29	3.08	0.52	3.90	0.48
12	Tsechu Nallah	0.29	3.08	0.52	3.90	0.48
13	Rahung	2.18	23.11	3.93	29.22	3.57
14	Dirang	5.82	30.52	10.47	46.81	5.71
15	Sessa	4.36	25.13	7.85	37.35	4.56
16	Rupa	0.58	3.35	1.05	4.98	0.61



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

17	Dokumpani	0.09	0.50	0.16	0.75	0.09
18	Domkhrong	5.82	64.69	10.47	80.98	9.88
19	Sinchung	0.15	1.62	0.26	2.02	0.25
20	Ankaling	0.09	0.92	0.16	1.17	0.14
21	Khet	0.29	3.08	0.52	3.90	0.48
22	Mago MHS	0.29	3.08	0.52	3.90	0.48
23	Dikshi	0.09	0.92	0.16	1.17	0.14
24	Khadiyabey	0.58	6.16	1.05	7.79	0.95
25	Saktangrong	0.87	9.25	1.57	11.69	1.43
26	Jigaon	0.29	3.08	0.52	3.90	0.48
27	Zhongdongrong	2.91	30.82	5.24	38.96	4.75
28	Seppa	0.87	4.58	1.57	7.02	0.86
29	Pakke Kessang	0.09	0.50	0.16	0.75	0.09
30	Pacha MHS	8.73	97.03	15.71	121.47	14.82
31	Pakoti	0.29	3.08	0.52	3.90	0.48
32	Patta Nallah	0.29	3.08	0.52	3.90	0.48
33	Watte Mame	0.15	1.54	0.26	1.95	0.24
34	Kade Nallah	0.15	1.54	0.26	1.95	0.24
35	Kidding MHS	1.45	15.41	2.62	19.48	2.38
36	Dumi Dutte	0.09	0.92	0.16	1.17	0.14
37	Pappey Nallah	0.03	0.17	0.05	0.25	0.03
38	Patte MHS at Tali	0.09	0.50	0.16	0.75	0.09
39	Koye	0.15	1.54	0.26	1.95	0.24
40	Chambang	0.09	0.92	0.16	1.17	0.14
41	Paya MHS at Hiya	0.29	3.08	0.52	3.90	0.48
42	Mai Ph-I	5.82	30.52	10.47	46.81	5.71
43	Mai Ph-II	2.91	15.26	5.24	23.41	2.86
44	Tago	13.09	75.40	23.56	112.05	13.67
45	Dulom (Daporijo)	1.16	6.10	2.09	9.36	1.14
46	Maro	0.09	0.50	0.16	0.75	0.09
47	Sippi	11.63	129.38	20.94	161.96	19.76
48	Ayingmuri MHS	0.73	7.70	1.31	9.74	1.19
49	Limeking MHS	0.09	0.92	0.16	1.17	0.14
50	Pinto Karo MHS	0.07	0.77	0.13	0.97	0.12
51	Sikin Karo	0.58	6.16	1.05	7.79	0.95
52	Sinyum Koro	0.29	3.08	0.52	3.90	0.48
53	Kojin Nallah	0.29	3.08	0.52	3.90	0.48
54	Siyum	0.09	0.50	0.16	0.75	0.09
55	Pagi (Basar)	0.29	1.53	0.52	2.34	0.29
56	Along	1.16	6.10	2.09	9.36	1.14
57	Ego-Echi (Dali)	1.16	6.70	2.09	9.96	1.22
58	Mechuka	0.44	4.62	0.79	5.84	0.71



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

59	Yomcha	0.15	0.84	0.26	1.25	0.15
60	Beye	0.09	0.50	0.16	0.75	0.09
61	Kambang	12.57	168.07	22.62	203.25	24.80
62	Liromoba	5.82	64.69	10.47	80.98	9.88
63	Yingko Sikong at Rapum	0.15	1.54	0.26	1.95	0.24
64	Angu	0.15	1.54	0.26	1.95	0.24
65	Solegomang MHS	0.15	1.54	0.26	1.95	0.24
66	Borong MHS	0.15	1.54	0.26	1.95	0.24
67	Sirikorang MHS	1.45	15.41	2.62	19.48	2.38
68	Yingkiong Ph-I	0.44	2.29	0.79	3.51	0.43
69	Sikut/ Tuting	0.29	1.68	0.52	2.49	0.30
70	Yingkiong Ph-II	0.58	3.35	1.05	4.98	0.61
71	Selli at Geku	1.45	8.38	2.62	12.45	1.52
72	Sirnyuk	5.82	33.51	10.47	49.80	6.08
73	Kopu at Tuting	0.73	8.09	1.31	10.12	1.23
74	Silingri	0.15	1.62	0.26	2.02	0.25
75	Singa	0.09	0.97	0.16	1.21	0.15
76	Ngaming	0.15	1.62	0.26	2.02	0.25
77	Sika	0.04	0.49	0.08	0.61	0.07
78	Mayung	0.01	0.15	0.03	0.19	0.02
79	Gosang	1.45	15.41	2.62	19.48	2.38
80	Kote MHS	0.15	1.54	0.26	1.95	0.24
81	Sijen MHS at Adi pasi	0.15	1.54	0.26	1.95	0.24
82	Pyabung MHS	0.07	0.77	0.13	0.97	0.12
83	Pangkang MHS	0.36	2.09	0.65	3.11	0.38
84	Pasighat	0.58	3.05	1.05	4.68	0.57
85	Yembung	5.82	33.51	10.47	49.80	6.08
86	Silli	0.09	0.50	0.16	0.75	0.09
87	Rina	5.82	64.69	10.47	80.98	9.88
88	Deopani Ph-I	2.18	12.57	3.93	18.68	2.28
89	Abhapani	1.31	7.54	2.36	11.21	1.37
90	Deopani Ph-II	2.18	12.57	3.93	18.68	2.28
91	Anini/ Awapani Ph-I	0.44	2.51	0.79	3.74	0.46
92	Tah Ahfra Ph-I & Ph-II	0.29	3.08	0.52	3.90	0.48
93	Chini Afra	0.73	4.19	1.31	6.23	0.76
94	Echi Ahfra	1.16	6.70	2.09	9.96	1.22
95	Awapani Ph-II	1.45	8.38	2.62	12.45	1.52
96	Echito Nallah	0.12	1.23	0.21	1.56	0.19
97	Rupapani	0.12	1.23	0.21	1.56	0.19
98	Chu Nallah	0.09	0.92	0.16	1.17	0.14
99	Awapani at Gepuline	1.45	15.41	2.62	19.48	2.38
100	Mukto MHS	0.00	0.00	0.00	0.00	0.00



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

101	Theya Ahfra at Jambupani	0.09	0.50	0.16	0.75	0.09
102	Dura Nallah	1.45	15.41	2.62	19.48	2.38
103	Tafragram	0.73	4.19	1.31	6.23	0.76
104	Kaho	0.03	0.17	0.05	0.25	0.03
105	Kebitho	0.09	0.50	0.16	0.75	0.09
106	Mati Nallah	1.45	8.38	2.62	12.45	1.52
107	Yapak Nallah	0.58	3.35	1.05	4.98	0.61
108	Teepani	1.45	15.41	2.62	19.48	2.38
109	Krawti Nallah	0.29	3.08	0.52	3.90	0.48
110	Hathipani	0.29	3.08	0.52	3.90	0.48
111	Tah Nallah	0.29	3.08	0.52	3.90	0.48
112	Maipani	0.17	1.85	0.31	2.34	0.29
113	Ashapani	0.17	1.85	0.31	2.34	0.29
114	Langpani	1.16	12.33	2.09	15.59	1.90
115	Tissue	1.16	6.70	2.09	9.96	1.22
116	Jongkey Nallah	0.07	0.77	0.13	0.97	0.12
117	Ngonalo at Vijaynagar	0.29	3.08	0.52	3.90	0.48
118	Tinning	0.17	1.85	0.31	2.34	0.29
119	Chicklong	0.44	4.62	0.79	5.84	0.71
120	Thiratju	2.91	15.26	5.24	23.41	2.86
121	Charju	1.75	10.05	3.14	14.94	1.82
122	Sumhok Nallah	0.29	3.08	0.52	3.90	0.48
123	Tahin Nallah	0.29	3.08	0.52	3.90	0.48
124	Kachopani MHS	0.58	6.16	1.05	7.79	0.95

Table 5.4.2: Interest on Working Capital for the FY 2019-20

(In ₹ Lakhs)

Sl. No.	Name of Station	Operation & Maintenance Exp. For one Month	Receivables for two months	Maintenance Spares - 15% of O&M	Total	Interest
		One Month	Two Months	15%		12.20%
1	Kitpi Ph-I	4.61	23.42	8.30	36.33	4.43
2	Nuranang	13.28	85.39	23.91	122.59	14.96
3	T. Gompa	0.15	0.86	0.28	1.29	0.16
4	Dudunghar (challengk-Ph1)	0.09	0.51	0.17	0.77	0.09



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

5	Bramdhongchung	0.31	3.27	0.55	4.13	0.50
6	Shakti Nallah	0.31	3.27	0.55	4.13	0.50
7	Kitpi MHS Ph-II	9.23	98.08	16.61	123.91	15.12
8	Chellengkang Ph-II	0.09	0.98	0.17	1.24	0.15
9	Bongleng	0.31	3.27	0.55	4.13	0.50
10	Thimbu	0.31	3.27	0.55	4.13	0.50
11	Bramdhongchung Ph-II	0.31	3.12	0.55	3.98	0.49
12	Tsechu Nallah	0.31	3.12	0.55	3.98	0.49
13	Rahung	2.31	23.38	4.15	29.83	3.64
14	Dirang	6.15	31.22	11.07	48.44	5.91
15	Sessa	4.61	25.66	8.30	38.57	4.71
16	Rupa	0.62	3.42	1.11	5.14	0.63
17	Dokumpani	0.09	0.51	0.17	0.77	0.09
18	Domkhong	6.15	65.39	11.07	82.61	10.08
19	Sinchung	0.15	1.63	0.28	2.07	0.25
20	Ankaling	0.09	0.98	0.17	1.24	0.15
21	Khet	0.31	3.27	0.55	4.13	0.50
22	Mago MHS	0.31	3.12	0.55	3.98	0.49
23	Dikshi	0.09	0.94	0.17	1.19	0.15
24	Khadiyabey	0.62	6.23	1.11	7.96	0.97
25	Saktangrong	0.92	9.35	1.66	11.93	1.46
26	Jigaon	0.31	3.12	0.55	3.98	0.49
27	Zhongdongrong	3.08	31.17	5.54	39.78	4.85
28	Seppa	0.92	4.68	1.66	7.27	0.89
29	Pakke Kessang	0.09	0.51	0.17	0.77	0.09
30	Pacha MHS	9.23	98.08	16.61	123.91	15.12
31	Pakoti	0.31	3.12	0.55	3.98	0.49
32	Patta Nallah	0.31	3.12	0.55	3.98	0.49
33	Watte Mame	0.15	1.56	0.28	1.99	0.24
34	Kade Nallah	0.15	1.56	0.28	1.99	0.24
35	Kidding MHS	1.54	15.58	2.77	19.89	2.43
36	Dumi Dutte	0.09	0.94	0.17	1.19	0.15
37	Pappey Nallah	0.03	0.17	0.06	0.26	0.03
38	Patte MHS at Tali	0.09	0.51	0.17	0.77	0.09
39	Koye	0.15	1.63	0.28	2.07	0.25
40	Chambang	0.09	0.98	0.17	1.24	0.15
41	Paya MHS at Hiya	0.31	3.12	0.55	3.98	0.49
42	Mai Ph-I	6.15	31.22	11.07	48.44	5.91
43	Mai Ph-II	3.08	15.61	5.54	24.22	2.95
44	Tago	13.84	76.97	24.91	115.72	14.12
45	Dulom (Daporijo)	1.23	6.24	2.21	9.69	1.18
46	Maro	0.09	0.51	0.17	0.77	0.09



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

47	Sippi	12.30	130.78	22.14	165.22	20.16
48	Ayingmuri MHS	0.77	7.79	1.38	9.94	1.21
49	Limeking MHS	0.09	0.94	0.17	1.19	0.15
50	Pinto Karo MHS	0.08	0.78	0.14	0.99	0.12
51	Sikin Karo	0.62	6.23	1.11	7.96	0.97
52	Sinyum Koro	0.31	3.12	0.55	3.98	0.49
53	Kojin Nallah	0.31	3.12	0.55	3.98	0.49
54	Siyum	0.09	0.51	0.17	0.77	0.09
55	Pagi (Basar)	0.31	1.56	0.55	2.42	0.30
56	Along	1.23	6.24	2.21	9.69	1.18
57	Ego-Echi (Dali)	1.23	6.84	2.21	10.29	1.25
58	Mechuka	0.46	4.68	0.83	5.97	0.73
59	Yomcha	0.15	0.86	0.28	1.29	0.16
60	Beye	0.09	0.51	0.17	0.77	0.09
61	Kambang	13.28	169.58	23.91	206.77	25.23
62	Liromoba	6.15	65.39	11.07	82.61	10.08
63	Yingko Sikong at Rapum	0.15	1.63	0.28	2.07	0.25
64	Angu	0.15	1.56	0.28	1.99	0.24
65	Solegomang MHS	0.15	1.56	0.28	1.99	0.24
66	Borong MHS	0.15	1.56	0.28	1.99	0.24
67	Sirikorang MHS	1.54	15.58	2.77	19.89	2.43
68	Yingkiong Ph-I	0.46	2.34	0.83	3.63	0.44
69	Sikut/ Tuting	0.31	1.56	0.55	2.42	0.30
70	Yingkiong Ph-II	0.62	3.42	1.11	5.14	0.63
71	Selli at Geku	1.54	8.55	2.77	12.86	1.57
72	Sirnyuk	6.15	34.21	11.07	51.43	6.27
73	Kopu at Tuting	0.77	6.88	1.38	9.03	1.10
74	Silingri	0.15	1.63	0.28	2.07	0.25
75	Singa	0.09	0.98	0.17	1.24	0.15
76	Ngaming	0.15	1.63	0.28	2.07	0.25
77	Sika	0.05	0.49	0.08	0.62	0.08
78	Mayung	0.02	0.16	0.03	0.21	0.03
79	Gosang	1.54	15.58	2.77	19.89	2.43
80	Kote MHS	0.15	1.56	0.28	1.99	0.24
81	Sijen MHS at Adi pasi	0.15	1.56	0.28	1.99	0.24
82	Pyabung MHS	0.08	0.78	0.14	0.99	0.12
83	Pangkang MHS	0.38	2.14	0.69	3.21	0.39
84	Pasighat	0.62	3.12	1.11	4.84	0.59
85	Yembung	6.15	34.21	11.07	51.43	6.27
86	Silli	0.09	0.51	0.17	0.77	0.09
87	Rina	6.15	65.39	11.07	82.61	10.08
88	Deopani Ph-I	2.31	12.83	4.15	19.29	2.35



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

89	Abhapani	1.38	7.70	2.49	11.57	1.41
90	Deopani Ph-II	2.31	12.83	4.15	19.29	2.35
91	Anini/ Awapani Ph-I	0.46	2.57	0.83	3.86	0.47
92	Tah Ahfra Ph-I & Ph-II	0.31	3.27	0.55	4.13	0.50
93	Chini Afra	0.77	4.28	1.38	6.43	0.78
94	Echi Ahfra	1.23	6.84	2.21	10.29	1.25
95	Awapani Ph-II	1.54	8.55	2.77	12.86	1.57
96	Echito Nallah	0.12	1.25	0.22	1.59	0.19
97	Rupapani	0.12	1.25	0.22	1.59	0.19
98	Chu Nallah	0.09	0.94	0.17	1.19	0.15
99	Awapani at Gepuline	1.54	15.58	2.77	19.89	2.43
100	Mukto MHS	0.00	0.00	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	0.09	0.51	0.17	0.77	0.09
102	Dura Nallah	1.54	15.58	2.77	19.89	2.43
103	Tafragram	0.77	3.90	1.38	6.06	0.74
104	Kaho	0.03	0.17	0.06	0.26	0.03
105	Kebitho	0.09	0.51	0.17	0.77	0.09
106	Mati Nallah	1.54	8.55	2.77	12.86	1.57
107	Yapak Nallah	0.62	3.42	1.11	5.14	0.63
108	Teepani	1.54	16.35	2.77	20.65	2.52
109	Krawti Nallah	0.31	3.27	0.55	4.13	0.50
110	Hathipani	0.31	3.27	0.55	4.13	0.50
111	Tah Nallah	0.31	3.27	0.55	4.13	0.50
112	Maipani	0.18	1.87	0.33	2.39	0.29
113	Ashapani	0.18	1.87	0.33	2.39	0.29
114	Langpani	1.23	12.47	2.21	15.91	1.94
115	Tissue	1.23	6.84	2.21	10.29	1.25
116	Jongkey Nallah	0.08	0.78	0.14	0.99	0.12
117	Ngonalo at Vijaynagar	0.31	3.12	0.55	3.98	0.49
118	Tinning	0.18	1.87	0.33	2.39	0.29
119	Chicklong	0.46	4.68	0.83	5.97	0.73
120	Thiratju	3.08	15.61	5.54	24.22	2.95
121	Charju	1.85	9.37	3.32	14.53	1.77
122	Sumhok Nallah	0.31	3.27	0.55	4.13	0.50
123	Tahin Nallah	0.31	3.12	0.55	3.98	0.49
124	Kachopani MHS	0.62	6.23	1.11	7.96	0.97

Table 5.4.3: Interest on Working Capital for the FY 2020-21

(In ₹ Lakhs)

Sl. No.	Name of Station	Operation & Maintenance Exp. For one Month	Receivables for two months	Maintenance Spares - 15% of O&M	Total	Interest
		One Month	Two Months	15%		12.20%
1	Kitpi Ph-I	4.88	23.97	8.78	37.62	4.59
2	Nuranang	14.04	86.99	25.28	126.31	15.41
3	T. Gompa	0.16	0.87	0.29	1.33	0.16
4	Dudunghar (challengk-Ph1)	0.10	0.52	0.18	0.80	0.10
5	Bramdhongchung	0.33	2.79	0.59	3.70	0.45
6	Shakti Nallah	0.33	2.79	0.59	3.70	0.45
7	Kitpi MHS Ph-II	9.75	83.66	17.56	110.97	13.54
8	Challengkang Ph-II	0.10	0.84	0.18	1.11	0.14
9	Bongleng	0.33	3.31	0.59	4.22	0.51
10	Thimbu	0.33	3.31	0.59	4.22	0.51
11	Bramdhongchung Ph-II	0.33	3.31	0.59	4.22	0.51
12	Tsechu Nallah	0.33	3.31	0.59	4.22	0.51
13	Rahung	2.44	23.65	4.39	30.48	3.72
14	Dirang	6.50	31.96	11.70	50.17	6.12
15	Sessa	4.88	26.21	8.78	39.87	4.86
16	Rupa	0.65	3.49	1.17	5.32	0.65
17	Dokumpani	0.10	0.52	0.18	0.80	0.10
18	Domkhong	6.50	55.77	11.70	73.98	9.03
19	Sinchung	0.16	1.39	0.29	1.85	0.23
20	Ankaling	0.10	0.99	0.18	1.26	0.15
21	Khet	0.33	3.31	0.59	4.22	0.51
22	Mago MHS	0.33	3.15	0.59	4.06	0.50
23	Dikshi	0.10	0.99	0.18	1.26	0.15
24	Khadiyabey	0.65	6.31	1.17	8.13	0.99
25	Saktangrong	0.98	9.46	1.76	12.19	1.49
26	Jigaon	0.33	3.15	0.59	4.06	0.50
27	Zhongdongrong	3.25	31.54	5.85	40.64	4.96
28	Seppa	0.98	4.79	1.76	7.52	0.92
29	Pakke Kessang	0.10	0.52	0.18	0.80	0.10
30	Pacha MHS	9.75	83.66	17.56	110.97	13.54



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

31	Pakoti	0.33	3.31	0.59	4.22	0.51
32	Patta Nallah	0.33	3.31	0.59	4.22	0.51
33	Watte Mame	0.16	1.65	0.29	2.11	0.26
34	Kade Nallah	0.16	1.65	0.29	2.11	0.26
35	Kidding MHS	1.63	15.77	2.93	20.32	2.48
36	Dumi Dutte	0.10	0.95	0.18	1.22	0.15
37	Pappey Nallah	0.03	0.17	0.06	0.27	0.03
38	Patte MHS at Tali	0.10	0.52	0.18	0.80	0.10
39	Koye	0.16	1.65	0.29	2.11	0.26
40	Chambang	0.10	0.99	0.18	1.26	0.15
41	Paya MHS at Hiya	0.33	3.15	0.59	4.06	0.50
42	Mai Ph-I	6.50	31.96	11.70	50.17	6.12
43	Mai Ph-II	3.25	15.98	5.85	25.08	3.06
44	Tago	14.63	78.63	26.33	119.60	14.59
45	Dulom (Daporijo)	1.30	6.39	2.34	10.03	1.22
46	Maro	0.10	0.52	0.18	0.80	0.10
47	Sippi	13.00	111.55	23.41	147.96	18.05
48	Ayingmuri MHS	0.81	7.88	1.46	10.16	1.24
49	Limeking MHS	0.10	0.95	0.18	1.22	0.15
50	Pinto Karo MHS	0.08	0.79	0.15	1.02	0.12
51	Sikin Karo	0.65	6.31	1.17	8.13	0.99
52	Sinyum Koro	0.33	3.15	0.59	4.06	0.50
53	Kojin Nallah	0.33	3.15	0.59	4.06	0.50
54	Siyum	0.10	0.52	0.18	0.80	0.10
55	Pagi (Basar)	0.33	1.60	0.59	2.51	0.31
56	Along	1.30	6.39	2.34	10.03	1.22
57	Ego-Echi (Dali)	1.30	6.99	2.34	10.63	1.30
58	Mechuka	0.49	4.73	0.88	6.10	0.74
59	Yomcha	0.16	0.87	0.29	1.33	0.16
60	Beye	0.10	0.52	0.18	0.80	0.10
61	Kambang	14.04	143.22	25.28	182.54	22.27
62	Liromoba	6.50	55.77	11.70	73.98	9.03
63	Yingko Sikong at Rapum	0.16	1.65	0.29	2.11	0.26
64	Angu	0.16	1.65	0.29	2.11	0.26
65	Solegomang MHS	0.16	1.58	0.29	2.03	0.25
66	Borong MHS	0.16	1.58	0.29	2.03	0.25
67	Sirikorang MHS	1.63	15.77	2.93	20.32	2.48
68	Yingkiong Ph-I	0.49	2.40	0.88	3.76	0.46
69	Sikut/ Tuting	0.33	1.60	0.59	2.51	0.31
70	Yingkiong Ph-II	0.65	3.49	1.17	5.32	0.65
71	Selli at Geku	1.63	8.74	2.93	13.29	1.62
72	Sirnyuk	6.50	34.95	11.70	53.15	6.48



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

73	Kopu at Tuting	0.81	4.37	1.46	6.64	0.81
74	Silingri	0.16	1.39	0.29	1.85	0.23
75	Singa	0.10	0.84	0.18	1.11	0.14
76	Ngaming	0.16	1.39	0.29	1.85	0.23
77	Sika	0.05	0.42	0.09	0.55	0.07
78	Mayung	0.02	0.17	0.03	0.21	0.03
79	Gosang	1.63	15.77	2.93	20.32	2.48
80	Kote MHS	0.16	1.58	0.29	2.03	0.25
81	Sijen MHS at Adi pasi	0.16	1.58	0.29	2.03	0.25
82	Pyabung MHS	0.08	0.79	0.15	1.02	0.12
83	Pangkang MHS	0.41	2.18	0.73	3.32	0.41
84	Pasighat	0.65	3.20	1.17	5.02	0.61
85	Yembung	6.50	34.95	11.70	53.15	6.48
86	Silli	0.10	0.52	0.18	0.80	0.10
87	Rina	6.50	55.77	11.70	73.98	9.03
88	Deopani Ph-I	2.44	13.11	4.39	19.93	2.43
89	Abhapani	1.46	7.86	2.63	11.96	1.46
90	Deopani Ph-II	2.44	13.11	4.39	19.93	2.43
91	Anini/ Awapani Ph-I	0.49	2.62	0.88	3.99	0.49
92	Tah Ahfra Ph-I & Ph-II	0.33	3.31	0.59	4.22	0.51
93	Chini Afra	0.81	4.37	1.46	6.64	0.81
94	Echi Ahfra	1.30	6.99	2.34	10.63	1.30
95	Awapani Ph-II	1.63	8.74	2.93	13.29	1.62
96	Echito Nallah	0.13	1.32	0.23	1.69	0.21
97	Rupapani	0.13	1.32	0.23	1.69	0.21
98	Chu Nallah	0.10	0.95	0.18	1.22	0.15
99	Awapani at Gepuline	1.63	15.77	2.93	20.32	2.48
100	Mukto MHS	0.00	0.00	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	0.10	0.52	0.18	0.80	0.10
102	Dura Nallah	1.63	15.77	2.93	20.32	2.48
103	Tafragram	0.81	3.99	1.46	6.27	0.77
104	Kaho	0.03	0.17	0.06	0.27	0.03
105	Kebitho	0.10	0.52	0.18	0.80	0.10
106	Mati Nallah	1.63	8.74	2.93	13.29	1.62
107	Yapak Nallah	0.65	3.49	1.17	5.32	0.65
108	Teepani	1.63	16.53	2.93	21.08	2.57
109	Krawti Nallah	0.33	3.31	0.59	4.22	0.51
110	Hathipani	0.33	3.31	0.59	4.22	0.51
111	Tah Nallah	0.33	3.31	0.59	4.22	0.51
112	Maipani	0.20	1.98	0.35	2.53	0.31
113	Ashapani	0.20	1.89	0.35	2.44	0.30

114	Langpani	1.30	12.62	2.34	16.26	1.98
115	Tissue	1.30	6.99	2.34	10.63	1.30
116	Jongkey Nallah	0.08	0.79	0.15	1.02	0.12
117	Ngonalo at Vijaynagar	0.33	3.31	0.59	4.22	0.51
118	Tinning	0.20	1.98	0.35	2.53	0.31
119	Chicklong	0.49	4.73	0.88	6.10	0.74
120	Thiratju	3.25	15.98	5.85	25.08	3.06
121	Charju	1.95	9.59	3.51	15.05	1.84
122	Sumhok Nallah	0.33	3.31	0.59	4.22	0.51
123	Tahin Nallah	0.33	3.15	0.59	4.06	0.50
124	Kachopani MHS	0.65	6.31	1.17	8.13	0.99

The Hon'ble Commission is requested to kindly consider & approve the Interest on Working Capital as proposed above.

5.5 OPERATION & MAINTENANCE EXPENSES

Operation and Maintenance Expenses has been calculated in accordance with the regulation 18 of the APERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 along with amendments. Regulation 18 provides as follows:

- (1) 'Operation & Maintenance or O&M expenses' shall comprise repair and maintenance (R&M), establishment including employee expenses, and administrative and general expenses.
- (2) Operation & Maintenance expenses shall be determined for the Tariff period based on normative O&M expenses specified by the Commission subsequently in these Regulations for the first year of Control Period.
- (3) Normative O&M expenses allowed during first year of the Control Period (i.e. FY 2012-13) under these Regulations shall be escalated at the rate of 5.72% per annum over the Tariff Period.

Further, Regulation 28 of the APERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 provides as below:

- (1) Normative O&M expenses for the first year of the control period (i.e) 2012-13 shall be as follows

- a. For projects below 5 MW – Rs. 25 Lakhs/MW
- b. For projects 5 MW to 25 MW – Rs. 18 Lakhs/MW

(2) Normative O&M expenses allowed under these Regulations shall be escalated at the rate of 5.72% per annum for the tariff period.

Accordingly, O&M expenses has been calculated at the normative expenses as above for the base year 2012-13, escalated @ 5.72% year over year to arrive at the O&M for the Traiff period.

The Operation and Maintenance Expenses of the SHPs for the control period is provided below:

Table5.5.1: O&M Expenses

Sl. No.	Name of Station	Capacity (MW)	Normative O&M Expense /MW)	Normative O&M Expense/MW	Escalation Rate / Annum	Escalated O&M Exp		
				At base FY 2012-13		FY 2018-19	FY 2019-20	FY 2020-21
1	Kitpi Ph-I	1.50	25	37.50	5.72%	52.36	55.35	58.52
2	Nuranang	6.00	18	108.00	5.72%	150.79	159.41	168.53
3	T. Gompa	0.05	25	1.25	5.72%	1.75	1.85	1.95
4	Dudunghar (chellengk- Ph1)	0.03	25	0.75	5.72%	1.05	1.11	1.17
5	Bramdhongchung	0.10	25	2.50	5.72%	3.49	3.69	3.90
6	Shakti Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
7	Kitpi MHS Ph-II	3.00	25	75.00	5.72%	104.71	110.70	117.04
8	Chellengkang Ph-II	0.03	25	0.75	5.72%	1.05	1.11	1.17
9	Bongleng	0.10	25	2.50	5.72%	3.49	3.69	3.90
10	Thimbu	0.10	25	2.50	5.72%	3.49	3.69	3.90
11	Bramdhongchung Ph-II	0.10	25	2.50	5.72%	3.49	3.69	3.90
12	Tsechu Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
13	Rahung	0.75	25	18.75	5.72%	26.18	27.68	29.26
14	Dirang	2.00	25	50.00	5.72%	69.81	73.80	78.02
15	Sessa	1.50	25	37.50	5.72%	52.36	55.35	58.52
16	Rupa	0.20	25	5.00	5.72%	6.98	7.38	7.80
17	Dokumpani	0.03	25	0.75	5.72%	1.05	1.11	1.17
18	Domkhong	2.00	25	50.00	5.72%	69.81	73.80	78.02
19	Sinchung	0.05	25	1.25	5.72%	1.75	1.85	1.95
20	Ankaling	0.03	25	0.75	5.72%	1.05	1.11	1.17



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

21	Khet	0.10	25	2.50	5.72%	3.49	3.69	3.90
22	Mago MHS	0.10	25	2.50	5.72%	3.49	3.69	3.90
23	Dikshi	0.03	25	0.75	5.72%	1.05	1.11	1.17
24	Khadiyabey	0.20	25	5.00	5.72%	6.98	7.38	7.80
25	Saktangrong	0.30	25	7.50	5.72%	10.47	11.07	11.70
26	Jigaon	0.10	25	2.50	5.72%	3.49	3.69	3.90
27	Zhongdongrong	1.00	25	25.00	5.72%	34.90	36.90	39.01
28	Seppa	0.30	25	7.50	5.72%	10.47	11.07	11.70
29	Pakke Kessang	0.03	25	0.75	5.72%	1.05	1.11	1.17
30	Pacha MHS	3.00	25	75.00	5.72%	104.71	110.70	117.04
31	Pakoti	0.10	25	2.50	5.72%	3.49	3.69	3.90
32	Patta Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
33	Watte Mame	0.05	25	1.25	5.72%	1.75	1.85	1.95
34	Kade Nallah	0.05	25	1.25	5.72%	1.75	1.85	1.95
35	Kidding MHS	0.50	25	12.50	5.72%	17.45	18.45	19.51
36	Dumi Dutte	0.03	25	0.75	5.72%	1.05	1.11	1.17
37	Pappey Nallah	0.01	25	0.25	5.72%	0.35	0.37	0.39
38	Patte MHS at Tali	0.03	25	0.75	5.72%	1.05	1.11	1.17
39	Koye	0.05	25	1.25	5.72%	1.75	1.85	1.95
40	Chambang	0.03	25	0.75	5.72%	1.05	1.11	1.17
41	Paya MHS at Hiya	0.10	25	2.50	5.72%	3.49	3.69	3.90
42	Mai Ph-I	2.00	25	50.00	5.72%	69.81	73.80	78.02
43	Mai Ph-II	1.00	25	25.00	5.72%	34.90	36.90	39.01
44	Tago	4.50	25	112.50	5.72%	157.07	166.06	175.55
45	Dulom (Daporijo)	0.40	25	10.00	5.72%	13.96	14.76	15.60
46	Maro	0.03	25	0.75	5.72%	1.05	1.11	1.17
47	Sippi	4.00	25	100.00	5.72%	139.62	147.60	156.05
48	Ayingmuri MHS	0.25	25	6.25	5.72%	8.73	9.23	9.75
49	Limeking MHS	0.03	25	0.75	5.72%	1.05	1.11	1.17
50	Pinto Karo MHS	0.03	25	0.63	5.72%	0.87	0.92	0.98
51	Sikin Karo	0.20	25	5.00	5.72%	6.98	7.38	7.80
52	Sinyum Koro	0.10	25	2.50	5.72%	3.49	3.69	3.90
53	Kojin Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
54	Siyum	0.03	25	0.75	5.72%	1.05	1.11	1.17
55	Pagi (Basar)	0.10	25	2.50	5.72%	3.49	3.69	3.90
56	Along	0.40	25	10.00	5.72%	13.96	14.76	15.60
57	Ego-Echi (Dali)	0.40	25	10.00	5.72%	13.96	14.76	15.60
58	Mechuka	0.15	25	3.75	5.72%	5.24	5.54	5.85
59	Yomcha	0.05	25	1.25	5.72%	1.75	1.85	1.95
60	Beye	0.03	25	0.75	5.72%	1.05	1.11	1.17
61	Kambang	6.00	18	108.00	5.72%	150.79	159.41	168.53
62	Liromoba	2.00	25	50.00	5.72%	69.81	73.80	78.02



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

63	Yingko Sikong at Rapum	0.05	25	1.25	5.72%	1.75	1.85	1.95
64	Angu	0.05	25	1.25	5.72%	1.75	1.85	1.95
65	Solegomang MHS	0.05	25	1.25	5.72%	1.75	1.85	1.95
66	Borong MHS	0.05	25	1.25	5.72%	1.75	1.85	1.95
67	Sirikorang MHS	0.50	25	12.50	5.72%	17.45	18.45	19.51
68	Yingkiong Ph-I	0.15	25	3.75	5.72%	5.24	5.54	5.85
69	Sikut/ Tuting	0.10	25	2.50	5.72%	3.49	3.69	3.90
70	Yingkiong Ph-II	0.20	25	5.00	5.72%	6.98	7.38	7.80
71	Selli at Geku	0.50	25	12.50	5.72%	17.45	18.45	19.51
72	Sirnyuk	2.00	25	50.00	5.72%	69.81	73.80	78.02
73	Kopu at Tuting	0.25	25	6.25	5.72%	8.73	9.23	9.75
74	Silingri	0.05	25	1.25	5.72%	1.75	1.85	1.95
75	Singa	0.03	25	0.75	5.72%	1.05	1.11	1.17
76	Ngaming	0.05	25	1.25	5.72%	1.75	1.85	1.95
77	Sika	0.02	25	0.38	5.72%	0.52	0.55	0.59
78	Mayung	0.01	25	0.13	5.72%	0.17	0.18	0.20
79	Gosang	0.50	25	12.50	5.72%	17.45	18.45	19.51
80	Kote MHS	0.05	25	1.25	5.72%	1.75	1.85	1.95
81	Sijen MHS at Adi pasi	0.05	25	1.25	5.72%	1.75	1.85	1.95
82	Pyabung MHS	0.03	25	0.63	5.72%	0.87	0.92	0.98
83	Pangkang MHS	0.13	25	3.13	5.72%	4.36	4.61	4.88
84	Pasighat	0.20	25	5.00	5.72%	6.98	7.38	7.80
85	Yembung	2.00	25	50.00	5.72%	69.81	73.80	78.02
86	Silli	0.03	25	0.75	5.72%	1.05	1.11	1.17
87	Rina	2.00	25	50.00	5.72%	69.81	73.80	78.02
88	Deopani Ph-I	0.75	25	18.75	5.72%	26.18	27.68	29.26
89	Abhapani	0.45	25	11.25	5.72%	15.71	16.61	17.56
90	Deopani Ph-II	0.75	25	18.75	5.72%	26.18	27.68	29.26
91	Anini/ Awapani Ph-I	0.15	25	3.75	5.72%	5.24	5.54	5.85
92	Tah Ahfra Ph-I & Ph-II	0.10	25	2.50	5.72%	3.49	3.69	3.90
93	Chini Afra	0.25	25	6.25	5.72%	8.73	9.23	9.75
94	Echi Ahfra	0.40	25	10.00	5.72%	13.96	14.76	15.60
95	Awapani Ph-II	0.50	25	12.50	5.72%	17.45	18.45	19.51
96	Echito Nallah	0.04	25	1.00	5.72%	1.40	1.48	1.56
97	Rupapani	0.04	25	1.00	5.72%	1.40	1.48	1.56
98	Chu Nallah	0.03	25	0.75	5.72%	1.05	1.11	1.17
99	Awapani at Gepuline	0.50	25	12.50	5.72%	17.45	18.45	19.51
100	Mukto MHS	6.00	0	0.00	5.72%	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	0.03	25	0.75	5.72%	1.05	1.11	1.17



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

102	Dura Nallah	0.50	25	12.50	5.72%	17.45	18.45	19.51
103	Tafragram	0.25	25	6.25	5.72%	8.73	9.23	9.75
104	Kaho	0.01	25	0.25	5.72%	0.35	0.37	0.39
105	Kebitho	0.03	25	0.75	5.72%	1.05	1.11	1.17
106	Mati Nallah	0.50	25	12.50	5.72%	17.45	18.45	19.51
107	Yapak Nallah	0.20	25	5.00	5.72%	6.98	7.38	7.80
108	Teepani	0.50	25	12.50	5.72%	17.45	18.45	19.51
109	Krawti Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
110	Hathipani	0.10	25	2.50	5.72%	3.49	3.69	3.90
111	Tah Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
112	Maipani	0.06	25	1.50	5.72%	2.09	2.21	2.34
113	Ashapani	0.06	25	1.50	5.72%	2.09	2.21	2.34
114	Langpani	0.40	25	10.00	5.72%	13.96	14.76	15.60
115	Tissue	0.40	25	10.00	5.72%	13.96	14.76	15.60
116	Jongkey Nallah	0.03	25	0.63	5.72%	0.87	0.92	0.98
117	Ngonalo at Vijaynagar	0.10	25	2.50	5.72%	3.49	3.69	3.90
118	Tinning	0.06	25	1.50	5.72%	2.09	2.21	2.34
119	Chicklong	0.15	25	3.75	5.72%	5.24	5.54	5.85
120	Thiratju	1.00	25	25.00	5.72%	34.90	36.90	39.01
121	Charju	0.60	25	15.00	5.72%	20.94	22.14	23.41
122	Sumhok Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
123	Tahin Nallah	0.10	25	2.50	5.72%	3.49	3.69	3.90
124	Kachopani MHS	0.20	25	5.00	5.72%	6.98	7.38	7.80

The Hon'ble Commission is requested to kindly consider & approve the O&M as proposed above.

5.6 ANNUAL REVENUE REQUIREMENT

The ARR of the SHPs has been arrived at based on the components of tariff as detailed in the previous sections. The table below provides the ARR of 124 SHPs.

Table 5.6.1: Annual Revenue Requirement for FY 2018-19

(In ₹ Lakhs)

Sl. No.	Head of Expense	O&M Expense	Return on Equity	Interest on Loan	Depreciation	Interest on Working Capital	Total
1	Kitpi Ph-I	52.36	80.71	0.00	0.00	4.28	137.35
2	Nuranang	150.79	290.56	0.00	47.44	14.53	503.31
3	T. Gompa	1.75	2.69	0.00	0.44	0.15	5.03
4	Dudunghar (challengk- Ph1)	1.05	1.61	0.00	0.26	0.09	3.02
5	Bramdhongchung	3.49	5.38	6.12	3.92	0.49	19.41
6	Shakti Nallah	3.49	5.38	6.12	3.92	0.49	19.41
7	Kitpi MHS Ph-II	104.71	161.42	183.62	117.64	14.82	582.21
8	Challengkang Ph-II	1.05	1.61	1.84	1.18	0.15	5.82
9	Bongleng	3.49	4.48	6.12	3.92	0.48	18.49
10	Thimbu	3.49	4.48	6.12	3.92	0.48	18.49
11	Bramdhongchung Ph-II	3.49	4.48	6.12	3.92	0.48	18.49
12	Tsechu Nallah	3.49	4.48	6.12	3.92	0.48	18.49
13	Rahung	26.18	33.63	45.90	29.41	3.57	138.69
14	Dirang	69.81	107.61	0.00	0.00	5.71	183.13
15	Sessa	52.36	80.71	0.00	13.18	4.56	150.80
16	Rupa	6.98	10.76	0.00	1.76	0.61	20.11
17	Dokumpani	1.05	1.61	0.00	0.26	0.09	3.02
18	Domkhong	69.81	107.61	122.41	78.42	9.88	388.14
19	Sinchung	1.75	2.69	3.06	1.96	0.25	9.70
20	Ankaling	1.05	1.35	1.84	1.18	0.14	5.55
21	Khet	3.49	4.48	6.12	3.92	0.48	18.49
22	Mago MHS	3.49	4.48	6.12	3.92	0.48	18.49
23	Dikshi	1.05	1.35	1.84	1.18	0.14	5.55
24	Khadiyabey	6.98	8.97	12.24	7.84	0.95	36.98
25	Saktangrong	10.47	13.45	18.36	11.76	1.43	55.47
26	Jigaon	3.49	4.48	6.12	3.92	0.48	18.49
27	Zhongdongrong	34.90	44.84	61.21	39.21	4.75	184.91
28	Seppa	10.47	16.14	0.00	0.00	0.86	27.47
29	Pakke Kessang	1.05	1.61	0.00	0.26	0.09	3.02
30	Pacha MHS	104.71	161.42	183.62	117.64	14.82	582.21
31	Pakoti	3.49	4.48	6.12	3.92	0.48	18.49
32	Patta Nallah	3.49	4.48	6.12	3.92	0.48	18.49
33	Watte Mame	1.75	2.24	3.06	1.96	0.24	9.25
34	Kade Nallah	1.75	2.24	3.06	1.96	0.24	9.25



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

35	Kidding MHS	17.45	22.42	30.60	19.61	2.38	92.46
36	Dumi Dutte	1.05	1.35	1.84	1.18	0.14	5.55
37	Pappey Nallah	0.35	0.54	0.00	0.09	0.03	1.01
38	Patte MHS at Tali	1.05	1.61	0.00	0.26	0.09	3.02
39	Koye	1.75	2.24	3.06	1.96	0.24	9.25
40	Chambang	1.05	1.35	1.84	1.18	0.14	5.55
41	Paya MHS at Hiya	3.49	4.48	6.12	3.92	0.48	18.49
42	Mai Ph-I	69.81	107.61	0.00	0.00	5.71	183.13
43	Mai Ph-II	34.90	53.81	0.00	0.00	2.86	91.57
44	Tago	157.07	242.13	0.00	39.53	13.67	452.40
45	Dulom (Daporijo)	13.96	21.52	0.00	0.00	1.14	36.63
46	Maro	1.05	1.61	0.00	0.26	0.09	3.02
47	Sippi	139.62	215.23	244.82	156.85	19.76	776.27
48	Ayingmuri MHS	8.73	11.21	15.30	9.80	1.19	46.23
49	Limeking MHS	1.05	1.35	1.84	1.18	0.14	5.55
50	Pinto Karo MHS	0.87	1.12	1.53	0.98	0.12	4.62
51	Sikin Karo	6.98	8.97	12.24	7.84	0.95	36.98
52	Sinyum Koro	3.49	4.48	6.12	3.92	0.48	18.49
53	Kojin Nallah	3.49	4.48	6.12	3.92	0.48	18.49
54	Siyum	1.05	1.61	0.00	0.26	0.09	3.02
55	Pagi (Basar)	3.49	5.38	0.00	0.00	0.29	9.16
56	Along	13.96	21.52	0.00	0.00	1.14	36.63
57	Ego-Echi (Dali)	13.96	21.52	0.00	3.51	1.22	40.21
58	Mechuka	5.24	6.73	9.18	5.88	0.71	27.74
59	Yomcha	1.75	2.69	0.00	0.44	0.15	5.03
60	Beye	1.05	1.61	0.00	0.26	0.09	3.02
61	Kambang	150.79	290.56	330.51	211.74	24.80	1008.40
62	Liromoba	69.81	107.61	122.41	78.42	9.88	388.14
63	Yingko Sikong at Rapum	1.75	2.24	3.06	1.96	0.24	9.25
64	Angu	1.75	2.24	3.06	1.96	0.24	9.25
65	Solegomang MHS	1.75	2.24	3.06	1.96	0.24	9.25
66	Borong MHS	1.75	2.24	3.06	1.96	0.24	9.25
67	Sirikorang MHS	17.45	22.42	30.60	19.61	2.38	92.46
68	Yingkiong Ph-I	5.24	8.07	0.00	0.00	0.43	13.74
69	Sikut/ Tuting	3.49	5.38	0.00	0.88	0.30	10.05
70	Yingkiong Ph-II	6.98	10.76	0.00	1.76	0.61	20.11
71	Selli at Geku	17.45	26.90	0.00	4.39	1.52	50.27
72	Sirnyuk	69.81	107.61	0.00	17.57	6.08	201.07
73	Kopu at Tuting	8.73	13.45	15.30	9.80	1.23	48.52
74	Silingri	1.75	2.69	3.06	1.96	0.25	9.70
75	Singa	1.05	1.61	1.84	1.18	0.15	5.82
76	Ngaming	1.75	2.69	3.06	1.96	0.25	9.70



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

77	Sika	0.52	0.81	0.92	0.59	0.07	2.91
78	Mayung	0.17	0.22	0.31	0.20	0.02	0.92
79	Gosang	17.45	22.42	30.60	19.61	2.38	92.46
80	Kote MHS	1.75	2.24	3.06	1.96	0.24	9.25
81	Sijen MHS at Adi pasi	1.75	2.24	3.06	1.96	0.24	9.25
82	Pyabung MHS	0.87	1.12	1.53	0.98	0.12	4.62
83	Pangkang MHS	4.36	6.73	0.00	1.10	0.38	12.57
84	Pasighat	6.98	10.76	0.00	0.00	0.57	18.31
85	Yembung	69.81	107.61	0.00	17.57	6.08	201.07
86	Silli	1.05	1.61	0.00	0.26	0.09	3.02
87	Rina	69.81	107.61	122.41	78.42	9.88	388.14
88	Deopani Ph-I	26.18	40.36	0.00	6.59	2.28	75.40
89	Abhapani	15.71	24.21	0.00	3.95	1.37	45.24
90	Deopani Ph-II	26.18	40.36	0.00	6.59	2.28	75.40
91	Anini/ Awapani Ph-I	5.24	8.07	0.00	1.32	0.46	15.08
92	Tah Ahfra Ph-I & Ph-II	3.49	4.48	6.12	3.92	0.48	18.49
93	Chini Afra	8.73	13.45	0.00	2.20	0.76	25.13
94	Echi Ahfra	13.96	21.52	0.00	3.51	1.22	40.21
95	Awapani Ph-II	17.45	26.90	0.00	4.39	1.52	50.27
96	Echito Nallah	1.40	1.79	2.45	1.57	0.19	7.40
97	Rupapani	1.40	1.79	2.45	1.57	0.19	7.40
98	Chu Nallah	1.05	1.35	1.84	1.18	0.14	5.55
99	Awapani at Gepuline	17.45	22.42	30.60	19.61	2.38	92.46
100	Mukto MHS	0.00	0.00	0.00	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	1.05	1.61	0.00	0.26	0.09	3.02
102	Dura Nallah	17.45	22.42	30.60	19.61	2.38	92.46
103	Tafragram	8.73	13.45	0.00	2.20	0.76	25.13
104	Kaho	0.35	0.54	0.00	0.09	0.03	1.01
105	Kebitho	1.05	1.61	0.00	0.26	0.09	3.02
106	Mati Nallah	17.45	26.90	0.00	4.39	1.52	50.27
107	Yapak Nallah	6.98	10.76	0.00	1.76	0.61	20.11
108	Teepani	17.45	22.42	30.60	19.61	2.38	92.46
109	Krawti Nallah	3.49	4.48	6.12	3.92	0.48	18.49
110	Hathipani	3.49	4.48	6.12	3.92	0.48	18.49
111	Tah Nallah	3.49	4.48	6.12	3.92	0.48	18.49
112	Maipani	2.09	2.69	3.67	2.35	0.29	11.09
113	Ashapani	2.09	2.69	3.67	2.35	0.29	11.09
114	Langpani	13.96	17.94	24.48	15.68	1.90	73.97
115	Tissue	13.96	21.52	0.00	3.51	1.22	40.21
116	Jongkey Nallah	0.87	1.12	1.53	0.98	0.12	4.62
117	Ngonalo at Vijaynagar	3.49	4.48	6.12	3.92	0.48	18.49
118	Tinning	2.09	2.69	3.67	2.35	0.29	11.09



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

119	Chicklong	5.24	6.73	9.18	5.88	0.71	27.74
120	Thiratju	34.90	53.81	0.00	0.00	2.86	91.57
121	Charju	20.94	32.28	0.00	5.27	1.82	60.32
122	Sumhok Nallah	3.49	4.48	6.12	3.92	0.48	18.49
123	Tahin Nallah	3.49	4.48	6.12	3.92	0.48	18.49
124	Kachopani MHS	6.98	8.97	12.24	7.84	0.95	36.98

Table 5.6.2: Annual Revenue Requirement for FY 2019-20

(In ₹ Lakhs)

Sl. No.	Head of Expense	O&M Expense	Return on Equity	Interest on Loan	Depreciation	Interest on Working Capital	Total
1	Kitpi Ph-I	55.35	80.71	0.00	0.00	4.43	140.49
2	Nuranang	159.41	290.56	0.00	47.44	14.96	512.36
3	T. Gompa	1.85	2.69	0.00	0.44	0.16	5.13
4	Dudunghar (challengk- Ph1)	1.11	1.61	0.00	0.26	0.09	3.08
5	Bramdhongchung	3.69	5.38	6.12	3.92	0.50	19.62
6	Shakti Nallah	3.69	5.38	6.12	3.92	0.50	19.62
7	Kitpi MHS Ph-II	110.70	161.42	183.62	117.64	15.12	588.49
8	Challengkang Ph-II	1.11	1.61	1.84	1.18	0.15	5.88
9	Bongleng	3.69	5.38	6.12	3.92	0.50	19.62
10	Thimbu	3.69	5.38	6.12	3.92	0.50	19.62
11	Bramdhongchung Ph-II	3.69	4.48	6.12	3.92	0.49	18.70
12	Tsechu Nallah	3.69	4.48	6.12	3.92	0.49	18.70
13	Rahung	27.68	33.63	45.90	29.41	3.64	140.26
14	Dirang	73.80	107.61	0.00	0.00	5.91	187.33
15	Sessa	55.35	80.71	0.00	13.18	4.71	153.95
16	Rupa	7.38	10.76	0.00	1.76	0.63	20.53
17	Dokumpani	1.11	1.61	0.00	0.26	0.09	3.08
18	Domkhong	73.80	107.61	122.41	78.42	10.08	392.33
19	Sinchung	1.85	2.69	3.06	1.96	0.25	9.81
20	Ankaling	1.11	1.61	1.84	1.18	0.15	5.88
21	Khet	3.69	5.38	6.12	3.92	0.50	19.62
22	Mago MHS	3.69	4.48	6.12	3.92	0.49	18.70
23	Dikshi	1.11	1.35	1.84	1.18	0.15	5.61
24	Khadiyabey	7.38	8.97	12.24	7.84	0.97	37.40
25	Saktangrong	11.07	13.45	18.36	11.76	1.46	56.10
26	Jigaon	3.69	4.48	6.12	3.92	0.49	18.70



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

27	Zhongdongrong	36.90	44.84	61.21	39.21	4.85	187.01
28	Seppa	11.07	16.14	0.00	0.00	0.89	28.10
29	Pakke Kessang	1.11	1.61	0.00	0.26	0.09	3.08
30	Pacha MHS	110.70	161.42	183.62	117.64	15.12	588.49
31	Pakoti	3.69	4.48	6.12	3.92	0.49	18.70
32	Patta Nallah	3.69	4.48	6.12	3.92	0.49	18.70
33	Watte Mame	1.85	2.24	3.06	1.96	0.24	9.35
34	Kade Nallah	1.85	2.24	3.06	1.96	0.24	9.35
35	Kidding MHS	18.45	22.42	30.60	19.61	2.43	93.51
36	Dumi Dutte	1.11	1.35	1.84	1.18	0.15	5.61
37	Pappey Nallah	0.37	0.54	0.00	0.09	0.03	1.03
38	Patte MHS at Tali	1.11	1.61	0.00	0.26	0.09	3.08
39	Koye	1.85	2.69	3.06	1.96	0.25	9.81
40	Chambang	1.11	1.61	1.84	1.18	0.15	5.88
41	Paya MHS at Hiya	3.69	4.48	6.12	3.92	0.49	18.70
42	Mai Ph-I	73.80	107.61	0.00	0.00	5.91	187.33
43	Mai Ph-II	36.90	53.81	0.00	0.00	2.95	93.66
44	Tago	166.06	242.13	0.00	39.53	14.12	461.84
45	Dulom (Daporijo)	14.76	21.52	0.00	0.00	1.18	37.47
46	Maro	1.11	1.61	0.00	0.26	0.09	3.08
47	Sippi	147.60	215.23	244.82	156.85	20.16	784.66
48	Ayingmuri MHS	9.23	11.21	15.30	9.80	1.21	46.75
49	Limeking MHS	1.11	1.35	1.84	1.18	0.15	5.61
50	Pinto Karo MHS	0.92	1.12	1.53	0.98	0.12	4.68
51	Sikin Karo	7.38	8.97	12.24	7.84	0.97	37.40
52	Sinyum Koro	3.69	4.48	6.12	3.92	0.49	18.70
53	Kojin Nallah	3.69	4.48	6.12	3.92	0.49	18.70
54	Siyum	1.11	1.61	0.00	0.26	0.09	3.08
55	Pagi (Basar)	3.69	5.38	0.00	0.00	0.30	9.37
56	Along	14.76	21.52	0.00	0.00	1.18	37.47
57	Ego-Echi (Dali)	14.76	21.52	0.00	3.51	1.25	41.05
58	Mechuka	5.54	6.73	9.18	5.88	0.73	28.05
59	Yomcha	1.85	2.69	0.00	0.44	0.16	5.13
60	Beye	1.11	1.61	0.00	0.26	0.09	3.08
61	Kambang	159.41	290.56	330.51	211.74	25.23	1017.45
62	Liromoba	73.80	107.61	122.41	78.42	10.08	392.33
63	Yingko Sikong at Rapum	1.85	2.69	3.06	1.96	0.25	9.81
64	Angu	1.85	2.24	3.06	1.96	0.24	9.35
65	Solegomang MHS	1.85	2.24	3.06	1.96	0.24	9.35
66	Borung MHS	1.85	2.24	3.06	1.96	0.24	9.35
67	Sirikorang MHS	18.45	22.42	30.60	19.61	2.43	93.51



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

68	Yingkiong Ph-I	5.54	8.07	0.00	0.00	0.44	14.05
69	Sikut/ Tuting	3.69	5.38	0.00	0.00	0.30	9.37
70	Yingkiong Ph-II	7.38	10.76	0.00	1.76	0.63	20.53
71	Selli at Geku	18.45	26.90	0.00	4.39	1.57	51.32
72	Sirnyuk	73.80	107.61	0.00	17.57	6.27	205.26
73	Kopu at Tuting	9.23	13.45	15.30	2.20	1.10	41.28
74	Silingri	1.85	2.69	3.06	1.96	0.25	9.81
75	Singa	1.11	1.61	1.84	1.18	0.15	5.88
76	Ngaming	1.85	2.69	3.06	1.96	0.25	9.81
77	Sika	0.55	0.81	0.92	0.59	0.08	2.94
78	Mayung	0.18	0.27	0.31	0.20	0.03	0.98
79	Gosang	18.45	22.42	30.60	19.61	2.43	93.51
80	Kote MHS	1.85	2.24	3.06	1.96	0.24	9.35
81	Sijen MHS at Adi pasi	1.85	2.24	3.06	1.96	0.24	9.35
82	Pyabung MHS	0.92	1.12	1.53	0.98	0.12	4.68
83	Pangkang MHS	4.61	6.73	0.00	1.10	0.39	12.83
84	Pasighat	7.38	10.76	0.00	0.00	0.59	18.73
85	Yembung	73.80	107.61	0.00	17.57	6.27	205.26
86	Silli	1.11	1.61	0.00	0.26	0.09	3.08
87	Rina	73.80	107.61	122.41	78.42	10.08	392.33
88	Deopani Ph-I	27.68	40.36	0.00	6.59	2.35	76.97
89	Abhapani	16.61	24.21	0.00	3.95	1.41	46.18
90	Deopani Ph-II	27.68	40.36	0.00	6.59	2.35	76.97
91	Anini/ Awapani Ph-I	5.54	8.07	0.00	1.32	0.47	15.39
92	Tah Ahfra Ph-I & Ph-II	3.69	5.38	6.12	3.92	0.50	19.62
93	Chini Afra	9.23	13.45	0.00	2.20	0.78	25.66
94	Echi Ahfra	14.76	21.52	0.00	3.51	1.25	41.05
95	Awapani Ph-II	18.45	26.90	0.00	4.39	1.57	51.32
96	Echito Nallah	1.48	1.79	2.45	1.57	0.19	7.48
97	Rupapani	1.48	1.79	2.45	1.57	0.19	7.48
98	Chu Nallah	1.11	1.35	1.84	1.18	0.15	5.61
99	Awapani at Gepuline	18.45	22.42	30.60	19.61	2.43	93.51
100	Mukto MHS	0.00	0.00	0.00	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	1.11	1.61	0.00	0.26	0.09	3.08
102	Dura Nallah	18.45	22.42	30.60	19.61	2.43	93.51
103	Tafragram	9.23	13.45	0.00	0.00	0.74	23.42
104	Kaho	0.37	0.54	0.00	0.09	0.03	1.03
105	Kebitho	1.11	1.61	0.00	0.26	0.09	3.08
106	Mati Nallah	18.45	26.90	0.00	4.39	1.57	51.32
107	Yapak Nallah	7.38	10.76	0.00	1.76	0.63	20.53
108	Teepani	18.45	26.90	30.60	19.61	2.52	98.08

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

109	Krawti Nallah	3.69	5.38	6.12	3.92	0.50	19.62
110	Hathipani	3.69	5.38	6.12	3.92	0.50	19.62
111	Tah Nallah	3.69	5.38	6.12	3.92	0.50	19.62
112	Maipani	2.21	2.69	3.67	2.35	0.29	11.22
113	Ashapani	2.21	2.69	3.67	2.35	0.29	11.22
114	Langpani	14.76	17.94	24.48	15.68	1.94	74.80
115	Tissue	14.76	21.52	0.00	3.51	1.25	41.05
116	Jongkey Nallah	0.92	1.12	1.53	0.98	0.12	4.68
117	Ngonalo at Vijaynagar	3.69	4.48	6.12	3.92	0.49	18.70
118	Tinning	2.21	2.69	3.67	2.35	0.29	11.22
119	Chicklong	5.54	6.73	9.18	5.88	0.73	28.05
120	Thiratju	36.90	53.81	0.00	0.00	2.95	93.66
121	Charju	22.14	32.28	0.00	0.00	1.77	56.20
122	Sumhok Nallah	3.69	5.38	6.12	3.92	0.50	19.62
123	Tahin Nallah	3.69	4.48	6.12	3.92	0.49	18.70
124	Kachopani MHS	7.38	8.97	12.24	7.84	0.97	37.40

Table 5.6.3: Annual Revenue Requirement for FY 2020-21

(In ₹ Lakhs)

Sl. No.	Head of Expense	O&M Expense	Return on Equity	Interest on Loan	Depreciation	Interest on Working Capital	Total
1	Kitpi Ph-I	58.52	80.71	0.00	0.00	4.59	143.82
2	Nuranang	168.53	290.56	0.00	47.44	15.41	521.94
3	T. Gompa	1.95	2.69	0.00	0.44	0.16	5.24
4	Dudunghar (challengk- Ph1)	1.17	1.61	0.00	0.26	0.10	3.15
5	Bramdhongchung	3.90	5.38	6.12	0.88	0.45	16.73
6	Shakti Nallah	3.90	5.38	6.12	0.88	0.45	16.73
7	Kitpi MHS Ph-II	117.04	161.42	183.62	26.35	13.54	501.97
8	Challengkang Ph-II	1.17	1.61	1.84	0.26	0.14	5.02
9	Bongleng	3.90	5.38	6.12	3.92	0.51	19.84
10	Thimbu	3.90	5.38	6.12	3.92	0.51	19.84
11	Bramdhongchung Ph-II	3.90	5.38	6.12	3.92	0.51	19.84
12	Tsechu Nallah	3.90	5.38	6.12	3.92	0.51	19.84
13	Rahung	29.26	33.63	45.90	29.41	3.72	141.92
14	Dirang	78.02	107.61	0.00	0.00	6.12	191.76
15	Sessa	58.52	80.71	0.00	13.18	4.86	157.27
16	Rupa	7.80	10.76	0.00	1.76	0.65	20.97



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

17	Dokumpani	1.17	1.61	0.00	0.26	0.10	3.15
18	Domkhong	78.02	107.61	122.41	17.57	9.03	334.64
19	Sinchung	1.95	2.69	3.06	0.44	0.23	8.37
20	Ankaling	1.17	1.61	1.84	1.18	0.15	5.95
21	Khet	3.90	5.38	6.12	3.92	0.51	19.84
22	Mago MHS	3.90	4.48	6.12	3.92	0.50	18.92
23	Dikshi	1.17	1.61	1.84	1.18	0.15	5.95
24	Khadiyabey	7.80	8.97	12.24	7.84	0.99	37.85
25	Saktangrong	11.70	13.45	18.36	11.76	1.49	56.77
26	Jigaon	3.90	4.48	6.12	3.92	0.50	18.92
27	Zhongdongrong	39.01	44.84	61.21	39.21	4.96	189.23
28	Seppa	11.70	16.14	0.00	0.00	0.92	28.76
29	Pakke Kessang	1.17	1.61	0.00	0.26	0.10	3.15
30	Pacha MHS	117.04	161.42	183.62	26.35	13.54	501.97
31	Pakoti	3.90	5.38	6.12	3.92	0.51	19.84
32	Patta Nallah	3.90	5.38	6.12	3.92	0.51	19.84
33	Watte Mame	1.95	2.69	3.06	1.96	0.26	9.92
34	Kade Nallah	1.95	2.69	3.06	1.96	0.26	9.92
35	Kidding MHS	19.51	22.42	30.60	19.61	2.48	94.61
36	Dumi Dutte	1.17	1.35	1.84	1.18	0.15	5.68
37	Pappey Nallah	0.39	0.54	0.00	0.09	0.03	1.05
38	Patte MHS at Tali	1.17	1.61	0.00	0.26	0.10	3.15
39	Koye	1.95	2.69	3.06	1.96	0.26	9.92
40	Chambang	1.17	1.61	1.84	1.18	0.15	5.95
41	Paya MHS at Hiya	3.90	4.48	6.12	3.92	0.50	18.92
42	Mai Ph-I	78.02	107.61	0.00	0.00	6.12	191.76
43	Mai Ph-II	39.01	53.81	0.00	0.00	3.06	95.88
44	Tago	175.55	242.13	0.00	39.53	14.59	471.81
45	Dulom (Daporijo)	15.60	21.52	0.00	0.00	1.22	38.35
46	Maro	1.17	1.61	0.00	0.26	0.10	3.15
47	Sippi	156.05	215.23	244.82	35.14	18.05	669.29
48	Ayingmuri MHS	9.75	11.21	15.30	9.80	1.24	47.31
49	Limeking MHS	1.17	1.35	1.84	1.18	0.15	5.68
50	Pinto Karo MHS	0.98	1.12	1.53	0.98	0.12	4.73
51	Sikin Karo	7.80	8.97	12.24	7.84	0.99	37.85
52	Sinyum Koro	3.90	4.48	6.12	3.92	0.50	18.92
53	Kojin Nallah	3.90	4.48	6.12	3.92	0.50	18.92
54	Siyum	1.17	1.61	0.00	0.26	0.10	3.15
55	Pagi (Basar)	3.90	5.38	0.00	0.00	0.31	9.59
56	Along	15.60	21.52	0.00	0.00	1.22	38.35
57	Ego-Echi (Dali)	15.60	21.52	0.00	3.51	1.30	41.94
58	Mechuka	5.85	6.73	9.18	5.88	0.74	28.38



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

59	Yomcha	1.95	2.69	0.00	0.44	0.16	5.24
60	Beye	1.17	1.61	0.00	0.26	0.10	3.15
61	Kambang	168.53	290.56	330.51	47.44	22.27	859.31
62	Liromoba	78.02	107.61	122.41	17.57	9.03	334.64
63	Yingko Sikong at Rapum	1.95	2.69	3.06	1.96	0.26	9.92
64	Angu	1.95	2.69	3.06	1.96	0.26	9.92
65	Solegomang MHS	1.95	2.24	3.06	1.96	0.25	9.46
66	Borong MHS	1.95	2.24	3.06	1.96	0.25	9.46
67	Sirikorang MHS	19.51	22.42	30.60	19.61	2.48	94.61
68	Yingkiong Ph-I	5.85	8.07	0.00	0.00	0.46	14.38
69	Sikut/ Tuting	3.90	5.38	0.00	0.00	0.31	9.59
70	Yingkiong Ph-II	7.80	10.76	0.00	1.76	0.65	20.97
71	Selli at Geku	19.51	26.90	0.00	4.39	1.62	52.42
72	Sirnyuk	78.02	107.61	0.00	17.57	6.48	209.69
73	Kopu at Tuting	9.75	13.45	0.00	2.20	0.81	26.21
74	Silingri	1.95	2.69	3.06	0.44	0.23	8.37
75	Singa	1.17	1.61	1.84	0.26	0.14	5.02
76	Ngaming	1.95	2.69	3.06	0.44	0.23	8.37
77	Sika	0.59	0.81	0.92	0.13	0.07	2.51
78	Mayung	0.20	0.27	0.31	0.20	0.03	0.99
79	Gosang	19.51	22.42	30.60	19.61	2.48	94.61
80	Kote MHS	1.95	2.24	3.06	1.96	0.25	9.46
81	Sijen MHS at Adi pasi	1.95	2.24	3.06	1.96	0.25	9.46
82	Pyabung MHS	0.98	1.12	1.53	0.98	0.12	4.73
83	Pangkang MHS	4.88	6.73	0.00	1.10	0.41	13.11
84	Pasighat	7.80	10.76	0.00	0.00	0.61	19.18
85	Yembung	78.02	107.61	0.00	17.57	6.48	209.69
86	Silli	1.17	1.61	0.00	0.26	0.10	3.15
87	Rina	78.02	107.61	122.41	17.57	9.03	334.64
88	Deopani Ph-I	29.26	40.36	0.00	6.59	2.43	78.63
89	Abhapani	17.56	24.21	0.00	3.95	1.46	47.18
90	Deopani Ph-II	29.26	40.36	0.00	6.59	2.43	78.63
91	Anini/ Awapani Ph-I	5.85	8.07	0.00	1.32	0.49	15.73
92	Tah Ahfra Ph-I & Ph-II	3.90	5.38	6.12	3.92	0.51	19.84
93	Chini Afra	9.75	13.45	0.00	2.20	0.81	26.21
94	Echi Ahfra	15.60	21.52	0.00	3.51	1.30	41.94
95	Awapani Ph-II	19.51	26.90	0.00	4.39	1.62	52.42
96	Echito Nallah	1.56	2.15	2.45	1.57	0.21	7.94
97	Rupapani	1.56	2.15	2.45	1.57	0.21	7.94
98	Chu Nallah	1.17	1.35	1.84	1.18	0.15	5.68
99	Awapani at Gepuline	19.51	22.42	30.60	19.61	2.48	94.61



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

100	Mukto MHS	0.00	0.00	0.00	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	1.17	1.61	0.00	0.26	0.10	3.15
102	Dura Nallah	19.51	22.42	30.60	19.61	2.48	94.61
103	Tafragram	9.75	13.45	0.00	0.00	0.77	23.97
104	Kaho	0.39	0.54	0.00	0.09	0.03	1.05
105	Kebitho	1.17	1.61	0.00	0.26	0.10	3.15
106	Mati Nallah	19.51	26.90	0.00	4.39	1.62	52.42
107	Yapak Nallah	7.80	10.76	0.00	1.76	0.65	20.97
108	Teepani	19.51	26.90	30.60	19.61	2.57	99.19
109	Krawti Nallah	3.90	5.38	6.12	3.92	0.51	19.84
110	Hathipani	3.90	5.38	6.12	3.92	0.51	19.84
111	Tah Nallah	3.90	5.38	6.12	3.92	0.51	19.84
112	Maipani	2.34	3.23	3.67	2.35	0.31	11.90
113	Ashapani	2.34	2.69	3.67	2.35	0.30	11.35
114	Langpani	15.60	17.94	24.48	15.68	1.98	75.69
115	Tissue	15.60	21.52	0.00	3.51	1.30	41.94
116	Jongkey Nallah	0.98	1.12	1.53	0.98	0.12	4.73
117	Ngonalo at Vijaynagar	3.90	5.38	6.12	3.92	0.51	19.84
118	Tinning	2.34	3.23	3.67	2.35	0.31	11.90
119	Chicklong	5.85	6.73	9.18	5.88	0.74	28.38
120	Thiratju	39.01	53.81	0.00	0.00	3.06	95.88
121	Charju	23.41	32.28	0.00	0.00	1.84	57.53
122	Sumhok Nallah	3.90	5.38	6.12	3.92	0.51	19.84
123	Tahin Nallah	3.90	4.48	6.12	3.92	0.50	18.92
124	Kachopani MHS	7.80	8.97	12.24	7.84	0.99	37.85

5.7 SUMMARY OF ANNUAL REVENUE REQUIREMENT

The table below provides summary of ARR of the 124 SHPs

Table 5.7.1: Summary of SHPs

(In ₹ Lakhs)

Sl. No.	Name of Project	2018-19	2019-20	2020-21
1	Kitpi Ph-I	137.35	140.49	143.82
2	Nuranang	503.31	512.36	521.94
3	T. Gompa	5.03	5.13	5.24
4	Dudunghar (challengk- Ph1)	3.02	3.08	3.15
5	Bramdhongchung	19.41	19.62	16.73
6	Shakti Nallah	19.41	19.62	16.73
7	Kitpi MHS Ph-II	582.21	588.49	501.97
8	Challengkang Ph-II	5.82	5.88	5.02

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

9	Bongleng	18.49	19.62	19.84
10	Thimbu	18.49	19.62	19.84
11	Bramdhongchung Ph-II	18.49	18.70	19.84
12	Tsechu Nallah	18.49	18.70	19.84
13	Rahung	138.69	140.26	141.92
14	Dirang	183.13	187.33	191.76
15	Sessa	150.80	153.95	157.27
16	Rupa	20.11	20.53	20.97
17	Dokumpani	3.02	3.08	3.15
18	Domkhong	388.14	392.33	334.64
19	Sinchung	9.70	9.81	8.37
20	Ankaling	5.55	5.88	5.95
21	Khet	18.49	19.62	19.84
22	Mago MHS	18.49	18.70	18.92
23	Dikshi	5.55	5.61	5.95
24	Khadiyabey	36.98	37.40	37.85
25	Saktangrong	55.47	56.10	56.77
26	Jigaon	18.49	18.70	18.92
27	Zhongdongrong	184.91	187.01	189.23
28	Seppa	27.47	28.10	28.76
29	Pakke Kessang	3.02	3.08	3.15
30	Pacha MHS	582.21	588.49	501.97
31	Pakoti	18.49	18.70	19.84
32	Patta Nallah	18.49	18.70	19.84
33	Watte Mame	9.25	9.35	9.92
34	Kade Nallah	9.25	9.35	9.92
35	Kidding MHS	92.46	93.51	94.61
36	Dumi Dutte	5.55	5.61	5.68
37	Pappey Nallah	1.01	1.03	1.05
38	Patte MHS at Tali	3.02	3.08	3.15
39	Koye	9.25	9.81	9.92
40	Chambang	5.55	5.88	5.95
41	Paya MHS at Hiya	18.49	18.70	18.92
42	Mai Ph-I	183.13	187.33	191.76
43	Mai Ph-II	91.57	93.66	95.88
44	Tago	452.40	461.84	471.81
45	Dulom (Daporijo)	36.63	37.47	38.35
46	Maro	3.02	3.08	3.15
47	Sippi	776.27	784.66	669.29
48	Ayingmuri MHS	46.23	46.75	47.31
49	Limeking MHS	5.55	5.61	5.68
50	Pinto Karo MHS	4.62	4.68	4.73

51	Sikin Karo	36.98	37.40	37.85
52	Sinyum Koro	18.49	18.70	18.92
53	Kojin Nallah	18.49	18.70	18.92
54	Siyum	3.02	3.08	3.15
55	Pagi (Basar)	9.16	9.37	9.59
56	Along	36.63	37.47	38.35
57	Ego-Echi (Dali)	40.21	41.05	41.94
58	Mechuka	27.74	28.05	28.38
59	Yomcha	5.03	5.13	5.24
60	Beye	3.02	3.08	3.15
61	Kambang	1008.40	1017.45	859.31
62	Liromoba	388.14	392.33	334.64
63	Yingko Sikong at Rapum	9.25	9.81	9.92
64	Angu	9.25	9.35	9.92
65	Solegomang MHS	9.25	9.35	9.46
66	Borong MHS	9.25	9.35	9.46
67	Sirikorang MHS	92.46	93.51	94.61
68	Yingkiong Ph-I	13.74	14.05	14.38
69	Sikut/ Tuting	10.05	9.37	9.59
70	Yingkiong Ph-II	20.11	20.53	20.97
71	Selli at Geku	50.27	51.32	52.42
72	Sirnyuk	201.07	205.26	209.69
73	Kopu at Tuting	48.52	41.28	26.21
74	Silingri	9.70	9.81	8.37
75	Singa	5.82	5.88	5.02
76	Ngaming	9.70	9.81	8.37
77	Sika	2.91	2.94	2.51
78	Mayung	0.92	0.98	0.99
79	Gosang	92.46	93.51	94.61
80	Kote MHS	9.25	9.35	9.46
81	Sijen MHS at Adi pasi	9.25	9.35	9.46
82	Pyabung MHS	4.62	4.68	4.73
83	Pangkang MHS	12.57	12.83	13.11
84	Pasighat	18.31	18.73	19.18
85	Yembung	201.07	205.26	209.69
86	Silli	3.02	3.08	3.15
87	Rina	388.14	392.33	334.64
88	Deopani Ph-I	75.40	76.97	78.63
89	Abhapani	45.24	46.18	47.18
90	Deopani Ph-II	75.40	76.97	78.63
91	Anini/ Awapani Ph-I	15.08	15.39	15.73
92	Tah Ahfra Ph-I & Ph-II	18.49	19.62	19.84

93	Chini Afra	25.13	25.66	26.21
94	Echi Ahfra	40.21	41.05	41.94
95	Awapani Ph-II	50.27	51.32	52.42
96	Echito Nallah	7.40	7.48	7.94
97	Rupapani	7.40	7.48	7.94
98	Chu Nallah	5.55	5.61	5.68
99	Awapani at Gepuline	92.46	93.51	94.61
100	Mukto MHS	0.00	0.00	0.00
101	Theya Ahfra at Jambupani	3.02	3.08	3.15
102	Dura Nallah	92.46	93.51	94.61
103	Tafragram	25.13	23.42	23.97
104	Kaho	1.01	1.03	1.05
105	Kebitho	3.02	3.08	3.15
106	Mati Nallah	50.27	51.32	52.42
107	Yapak Nallah	20.11	20.53	20.97
108	Teepani	92.46	98.08	99.19
109	Krawti Nallah	18.49	19.62	19.84
110	Hathipani	18.49	19.62	19.84
111	Tah Nallah	18.49	19.62	19.84
112	Maipani	11.09	11.22	11.90
113	Ashapani	11.09	11.22	11.35
114	Langpani	73.97	74.80	75.69
115	Tissue	40.21	41.05	41.94
116	Jongkey Nallah	4.62	4.68	4.73
117	Ngonalo at Vijaynagar	18.49	18.70	19.84
118	Tinning	11.09	11.22	11.90
119	Chicklong	27.74	28.05	28.38
120	Thiratju	91.57	93.66	95.88
121	Charju	60.32	56.20	57.53
122	Sumhok Nallah	18.49	19.62	19.84
123	Tahin Nallah	18.49	18.70	18.92
124	Kachopani MHS	36.98	37.40	37.85

6. CAPACITY UTILISATION FACTOR

Capacity Utilisation Factor has been calculated in accordance with the regulation 26 of the APSPERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 along with amendments. The extract of the regulation is reproduced below:

“Capacity Utilisation factor for the small hydro projects in Arunachal Pradesh shall be 45%.

Explanation: For the purpose of this Regulation normative CUF is net of free power to the home state if any, and any quantum of free power if committed by the developer over and above the normative CUF shall not be factored into the tariff.”

In terms of the above Regulations, generation of SHP at the CUF of 45% is provided in the table below:

Table 6.1: Generation

(in MUs)

Sl. No.	Name of Station	Installed Capacity (MW)	Generation at 45% CUF
1	Kitpi Ph-I	1.50	5.91
2	Nuranang	6.00	23.65
3	T. Gomp	0.05	0.20
4	Dudunghar (challengk- Ph1)	0.03	0.12
5	Bramdhongchung	0.10	0.39
6	Shakti Nallah	0.10	0.39
7	Kitpi MHS Ph-II	3.00	11.83
8	Challengkang Ph-II	0.03	0.12
9	Bongleng	0.10	0.39
10	Thimbu	0.10	0.39
11	Bramdhongchung Ph-II	0.10	0.39
12	Tsechu Nallah	0.10	0.39
13	Rahung	0.75	2.96
14	Dirang	2.00	7.88
15	Sessa	1.50	5.91
16	Rupa	0.20	0.79
17	Dokumpani	0.03	0.12
18	Domkhong	2.00	7.88
19	Sinchung	0.05	0.20
20	Ankaling	0.03	0.12
21	Khet	0.10	0.39
22	Mago MHS	0.10	0.39
23	Dikshi	0.03	0.12
24	Khadiyabey	0.20	0.79
25	Saktangrong	0.30	1.18

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

26	Jigaon	0.10	0.39
27	Zhongdongrong	1.00	3.94
28	Seppa	0.30	1.18
29	Pakke Kessang	0.03	0.12
30	Pacha MHS	3.00	11.83
31	Pakoti	0.10	0.39
32	Patta Nallah	0.10	0.39
33	Watte Mame	0.05	0.20
34	Kade Nallah	0.05	0.20
35	Kidding MHS	0.50	1.97
36	Dumi Dutte	0.03	0.12
37	Pappey Nallah	0.01	0.04
38	Patte MHS at Tali	0.03	0.12
39	Koye	0.05	0.20
40	Chambang	0.03	0.12
41	Paya MHS at Hiya	0.10	0.39
42	Mai Ph-I	2.00	7.88
43	Mai Ph-II	1.00	3.94
44	Tago	4.50	17.74
45	Dulom (Daporijo)	0.40	1.58
46	Maro	0.03	0.12
47	Sippi	4.00	15.77
48	Ayingmuri MHS	0.25	0.99
49	Limeking MHS	0.03	0.12
50	Pinto Karo MHS	0.03	0.10
51	Sikin Karo	0.20	0.79
52	Sinyum Koro	0.10	0.39
53	Kojin Nallah	0.10	0.39
54	Siyum	0.03	0.12
55	Pagi (Basar)	0.10	0.39
56	Along	0.40	1.58
57	Ego-Echi (Dali)	0.40	1.58
58	Mechuka	0.15	0.59
59	Yomcha	0.05	0.20
60	Beye	0.03	0.12
61	Kambang	6.00	23.65
62	Liromoba	2.00	7.88
63	Yingko Sikong at Rapum	0.05	0.20
64	Angu	0.05	0.20
65	Solegomang MHS	0.05	0.20
66	Borung MHS	0.05	0.20
67	Sirikorang MHS	0.50	1.97

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

68	Yingkiong Ph-I	0.15	0.59
69	Sikut/ Tuting	0.10	0.39
70	Yingkiong Ph-II	0.20	0.79
71	Selli at Geku	0.50	1.97
72	Sirnyuk	2.00	7.88
73	Kopu at Tuting	0.25	0.99
74	Silingri	0.05	0.20
75	Singa	0.03	0.12
76	Ngaming	0.05	0.20
77	Sika	0.02	0.06
78	Mayung	0.01	0.02
79	Gosang	0.50	1.97
80	Kote MHS	0.05	0.20
81	Sijen MHS at Adi pasi	0.05	0.20
82	Pyabung MHS	0.03	0.10
83	Pangkang MHS	0.13	0.49
84	Pasighat	0.20	0.79
85	Yembung	2.00	7.88
86	Silli	0.03	0.12
87	Rina	2.00	7.88
88	Deopani Ph-I	0.75	2.96
89	Abhapani	0.45	1.77
90	Deopani Ph-II	0.75	2.96
91	Anini/ Awapani Ph-I	0.15	0.59
92	Tah Ahfra Ph-I & Ph-II	0.10	0.39
93	Chini Afra	0.25	0.99
94	Echi Ahfra	0.40	1.58
95	Awapani Ph-II	0.50	1.97
96	Echito Nallah	0.04	0.16
97	Rupapani	0.04	0.16
98	Chu Nallah	0.03	0.12
99	Awapani at Gepuline	0.50	1.97
100	Mukto MHS	6.00	23.65
101	Theya Ahfra at Jambupani	0.03	0.12
102	Dura Nallah	0.50	1.97
103	Tafragram	0.25	0.99
104	Kaho	0.01	0.04
105	Kebitho	0.03	0.12
106	Mati Nallah	0.50	1.97
107	Yapak Nallah	0.20	0.79
108	Teepani	0.50	1.97
109	Krawti Nallah	0.10	0.39

110	Hathipani	0.10	0.39
111	Tah Nallah	0.10	0.39
112	Maipani	0.06	0.24
113	Ashapani	0.06	0.24
114	Langpani	0.40	1.58
115	Tissue	0.40	1.58
116	Jongkey Nallah	0.03	0.10
117	Ngonalo at Vijaynagar	0.10	0.39
118	Tinning	0.06	0.24
119	Chicklong	0.15	0.59
120	Thiratju	1.00	3.94
121	Charju	0.60	2.37
122	Sumhok Nallah	0.10	0.39
123	Tahin Nallah	0.10	0.39
124	Kachopani MHS	0.20	0.79

7. AUXILIARY CONSUMPTION

Auxiliary Consumption has been calculated in accordance with the regulation 27 of the APSERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 along with amendments. The extract of the regulation is reproduced below:

“Normative Auxiliary Consumption for the small hydro projects shall be 1.0%.”

In terms of the above Regulation, Normative Auxiliary consumption and Net generation is calculated in the table below:

**Table 7.1: Normative Auxiliary Consumption
(in MUs)**

Sl. No.	Name of Station	Generation at 45% CUF	Auxiliary Consumption @1%	Net Generation
1	Kitpi Ph-I	5.91	0.059	5.854
2	Nuranang	23.65	0.237	23.415
3	T. Gompa	0.20	0.002	0.195
4	Dudunghar (challengk- Ph1)	0.12	0.001	0.117
5	Bramdhongchung	0.39	0.004	0.390
6	Shakti Nallah	0.39	0.004	0.390
7	Kitpi MHS Ph-II	11.83	0.118	11.708
8	Challengkang Ph-II	0.12	0.001	0.117
9	Bongleng	0.39	0.004	0.390

*Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21*

10	Thimbu	0.39	0.004	0.390
11	Bramdhongchung Ph-II	0.39	0.004	0.390
12	Tsechu Nallah	0.39	0.004	0.390
13	Rahung	2.96	0.030	2.927
14	Dirang	7.88	0.079	7.805
15	Sessa	5.91	0.059	5.854
16	Rupa	0.79	0.008	0.781
17	Dokumpani	0.12	0.001	0.117
18	Domkhong	7.88	0.079	7.805
19	Sinchung	0.20	0.002	0.195
20	Ankaling	0.12	0.001	0.117
21	Khet	0.39	0.004	0.390
22	Mago MHS	0.39	0.004	0.390
23	Dikshi	0.12	0.001	0.117
24	Khadiyabey	0.79	0.008	0.781
25	Saktangrong	1.18	0.012	1.171
26	Jigaon	0.39	0.004	0.390
27	Zhongdongrong	3.94	0.039	3.903
28	Seppa	1.18	0.012	1.171
29	Pakke Kessang	0.12	0.001	0.117
30	Pacha MHS	11.83	0.118	11.708
31	Pakoti	0.39	0.004	0.390
32	Patta Nallah	0.39	0.004	0.390
33	Watte Mame	0.20	0.002	0.195
34	Kade Nallah	0.20	0.002	0.195
35	Kidding MHS	1.97	0.020	1.951
36	Dumi Dutte	0.12	0.001	0.117
37	Pappey Nallah	0.04	0.000	0.039
38	Patte MHS at Tali	0.12	0.001	0.117
39	Koye	0.20	0.002	0.195
40	Chambang	0.12	0.001	0.117
41	Paya MHS at Hiya	0.39	0.004	0.390
42	Mai Ph-I	7.88	0.079	7.805
43	Mai Ph-II	3.94	0.039	3.903
44	Tago	17.74	0.177	17.562
45	Dulom (Daporijo)	1.58	0.016	1.561
46	Maro	0.12	0.001	0.117
47	Sippi	15.77	0.158	15.610
48	Ayingmuri MHS	0.99	0.010	0.976
49	Limeking MHS	0.12	0.001	0.117
50	Pinto Karo MHS	0.10	0.001	0.098

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

51	Sikin Karo	0.79	0.008	0.781
52	Sinyum Koro	0.39	0.004	0.390
53	Kojin Nallah	0.39	0.004	0.390
54	Siyum	0.12	0.001	0.117
55	Pagi (Basar)	0.39	0.004	0.390
56	Along	1.58	0.016	1.561
57	Ego-Echi (Dali)	1.58	0.016	1.561
58	Mechuka	0.59	0.006	0.585
59	Yomcha	0.20	0.002	0.195
60	Beye	0.12	0.001	0.117
61	Kambang	23.65	0.237	23.415
62	Liromoba	7.88	0.079	7.805
63	Yingko Sikong at Rapum	0.20	0.002	0.195
64	Angu	0.20	0.002	0.195
65	Solegomang MHS	0.20	0.002	0.195
66	Borung MHS	0.20	0.002	0.195
67	Sirikorang MHS	1.97	0.020	1.951
68	Yingkiong Ph-I	0.59	0.006	0.585
69	Sikut/ Tuting	0.39	0.004	0.390
70	Yingkiong Ph-II	0.79	0.008	0.781
71	Selli at Geku	1.97	0.020	1.951
72	Sirnyuk	7.88	0.079	7.805
73	Kopu at Tuting	0.99	0.010	0.976
74	Silingri	0.20	0.002	0.195
75	Singa	0.12	0.001	0.117
76	Ngaming	0.20	0.002	0.195
77	Sika	0.06	0.001	0.059
78	Mayung	0.02	0.000	0.020
79	Gosang	1.97	0.020	1.951
80	Kote MHS	0.20	0.002	0.195
81	Sijen MHS at Adi pasi	0.20	0.002	0.195
82	Pyabung MHS	0.10	0.001	0.098
83	Pangkang MHS	0.49	0.005	0.488
84	Pasighat	0.79	0.008	0.781
85	Yembung	7.88	0.079	7.805
86	Silli	0.12	0.001	0.117
87	Rina	7.88	0.079	7.805
88	Deopani Ph-I	2.96	0.030	2.927
89	Abhapani	1.77	0.018	1.756
90	Deopani Ph-II	2.96	0.030	2.927
91	Anini/ Awapani Ph-	0.59	0.006	0.585

	I			
92	Tah Ahfra Ph-I & Ph-II	0.39	0.004	0.390
93	Chini Afra	0.99	0.010	0.976
94	Echi Ahfra	1.58	0.016	1.561
95	Awapani Ph-II	1.97	0.020	1.951
96	Echito Nallah	0.16	0.002	0.156
97	Rupapani	0.16	0.002	0.156
98	Chu Nallah	0.12	0.001	0.117
99	Awapani at Gepuline	1.97	0.020	1.951
100	Mukto MHS	23.65	0.237	23.415
101	Theya Ahfra at Jambupani	0.12	0.001	0.117
102	Dura Nallah	1.97	0.020	1.951
103	Tafragram	0.99	0.010	0.976
104	Kaho	0.04	0.000	0.039
105	Kebitho	0.12	0.001	0.117
106	Mati Nallah	1.97	0.020	1.951
107	Yapak Nallah	0.79	0.008	0.781
108	Teepani	1.97	0.020	1.951
109	Krawti Nallah	0.39	0.004	0.390
110	Hathipani	0.39	0.004	0.390
111	Tah Nallah	0.39	0.004	0.390
112	Maipani	0.24	0.002	0.234
113	Ashapani	0.24	0.002	0.234
114	Langpani	1.58	0.016	1.561
115	Tissue	1.58	0.016	1.561
116	Jongkey Nallah	0.10	0.001	0.098
117	Ngonalo at Vijaynagar	0.39	0.004	0.390
118	Tinning	0.24	0.002	0.234
119	Chicklong	0.59	0.006	0.585
120	Thiratju	3.94	0.039	3.903
121	Charju	2.37	0.024	2.342
122	Sumhok Nallah	0.39	0.004	0.390
123	Tahin Nallah	0.39	0.004	0.390
124	Kachopani MHS	0.79	0.008	0.781

8. GENERATION TARIFF

Generation tariff of the SHPs has been calculated on the basis of the ARR and net generation of the SHPs. Tariff per unit for the 124 SHPs for the FY 2018-19 is provided in the table below:

Table 8.1: Tariff for Generation:

Sl. No.	Name of Station	Net Generation (In Mus)	ARR (₹ in Lakhs)	Tariff
1	Kitpi Ph-I	5.854	137.35	2.35
2	Nuranang	23.415	503.31	2.15
3	T. Gompa	0.195	5.03	2.58
4	Dudunghar (chellengk-Ph1)	0.117	3.02	2.58
5	Bramdhongchung	0.390	19.41	4.97
6	Shakti Nallah	0.390	19.41	4.97
7	Kitpi MHS Ph-II	11.708	582.21	4.97
8	Chellengkang Ph-II	0.117	5.82	4.97
9	Bongleng	0.390	18.49	4.74
10	Thimbu	0.390	18.49	4.74
11	Bramdhongchung Ph-II	0.390	18.49	4.74
12	Tsechu Nallah	0.390	18.49	4.74
13	Rahung	2.927	138.69	4.74
14	Dirang	7.805	183.13	2.35
15	Sessa	5.854	150.80	2.58
16	Rupa	0.781	20.11	2.58
17	Dokumpani	0.117	3.02	2.58
18	Domkhong	7.805	388.14	4.97
19	Sinchung	0.195	9.70	4.97
20	Ankaling	0.117	5.55	4.74
21	Khet	0.390	18.49	4.74
22	Mago MHS	0.390	18.49	4.74
23	Dikshi	0.117	5.55	4.74
24	Khadiyabey	0.781	36.98	4.74
25	Saktangrong	1.171	55.47	4.74
26	Jigaon	0.390	18.49	4.74
27	Zhongdongrong	3.903	184.91	4.74
28	Seppa	1.171	27.47	2.35
29	Pakke Kessang	0.117	3.02	2.58
30	Pacha MHS	11.708	582.21	4.97
31	Pakoti	0.390	18.49	4.74
32	Patta Nallah	0.390	18.49	4.74
33	Watte Mame	0.195	9.25	4.74
34	Kade Nallah	0.195	9.25	4.74
35	Kidding MHS	1.951	92.46	4.74



**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

36	Dumi Dutte	0.117	5.55	4.74
37	Pappey Nallah	0.039	1.01	2.58
38	Patte MHS at Tali	0.117	3.02	2.58
39	Koye	0.195	9.25	4.74
40	Chambang	0.117	5.55	4.74
41	Paya MHS at Hiya	0.390	18.49	4.74
42	Mai Ph-I	7.805	183.13	2.35
43	Mai Ph-II	3.903	91.57	2.35
44	Tago	17.562	452.40	2.58
45	Dulom (Daporijo)	1.561	36.63	2.35
46	Maro	0.117	3.02	2.58
47	Sippi	15.610	776.27	4.97
48	Ayingmuri MHS	0.976	46.23	4.74
49	Limeking MHS	0.117	5.55	4.74
50	Pinto Karo MHS	0.098	4.62	4.74
51	Sikin Karo	0.781	36.98	4.74
52	Sinyum Koro	0.390	18.49	4.74
53	Kojin Nallah	0.390	18.49	4.74
54	Siyum	0.117	3.02	2.58
55	Pagi (Basar)	0.390	9.16	2.35
56	Along	1.561	36.63	2.35
57	Ego-Echi (Dali)	1.561	40.21	2.58
58	Mechuka	0.585	27.74	4.74
59	Yomcha	0.195	5.03	2.58
60	Beye	0.117	3.02	2.58
61	Kambang	23.415	1008.40	4.31
62	Liromoba	7.805	388.14	4.97
63	Yingko Sikong at Rapum	0.195	9.25	4.74
64	Angu	0.195	9.25	4.74
65	Solegomang MHS	0.195	9.25	4.74
66	Borung MHS	0.195	9.25	4.74
67	Sirikorang MHS	1.951	92.46	4.74
68	Yingkiong Ph-I	0.585	13.74	2.35
69	Sikut/ Tuting	0.390	10.05	2.58
70	Yingkiong Ph-II	0.781	20.11	2.58
71	Selli at Geku	1.951	50.27	2.58
72	Sirnyuk	7.805	201.07	2.58
73	Kopu at Tuting	0.976	48.52	4.97
74	Silingri	0.195	9.70	4.97
75	Singa	0.117	5.82	4.97
76	Ngaming	0.195	9.70	4.97
77	Sika	0.059	2.91	4.97

**Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21**

78	Mayung	0.020	0.92	4.74
79	Gosang	1.951	92.46	4.74
80	Kote MHS	0.195	9.25	4.74
81	Sijen MHS at Adi pasi	0.195	9.25	4.74
82	Pyabung MHS	0.098	4.62	4.74
83	Pangkang MHS	0.488	12.57	2.58
84	Pasighat	0.781	18.31	2.35
85	Yembung	7.805	201.07	2.58
86	Silli	0.117	3.02	2.58
87	Rina	7.805	388.14	4.97
88	Deopani Ph-I	2.927	75.40	2.58
89	Abhapani	1.756	45.24	2.58
90	Deopani Ph-II	2.927	75.40	2.58
91	Anini/ Awapani Ph-I	0.585	15.08	2.58
92	Tah Ahfra Ph-I & Ph-II	0.390	18.49	4.74
93	Chini Afra	0.976	25.13	2.58
94	Echi Ahfra	1.561	40.21	2.58
95	Awapani Ph-II	1.951	50.27	2.58
96	Echito Nallah	0.156	7.40	4.74
97	Rupapani	0.156	7.40	4.74
98	Chu Nallah	0.117	5.55	4.74
99	Awapani at Gepuline	1.951	92.46	4.74
100	Mukto MHS	23.415	0.00	0.00
101	Theya Ahfra at Jambupani	0.117	3.02	2.58
102	Dura Nallah	1.951	92.46	4.74
103	Tafragram	0.976	25.13	2.58
104	Kaho	0.039	1.01	2.58
105	Kebitho	0.117	3.02	2.58
106	Mati Nallah	1.951	50.27	2.58
107	Yapak Nallah	0.781	20.11	2.58
108	Teepani	1.951	92.46	4.74
109	Krawti Nallah	0.390	18.49	4.74
110	Hathipani	0.390	18.49	4.74
111	Tah Nallah	0.390	18.49	4.74
112	Maipani	0.234	11.09	4.74
113	Ashapani	0.234	11.09	4.74
114	Langpani	1.561	73.97	4.74
115	Tissue	1.561	40.21	2.58
116	Jongkey Nallah	0.098	4.62	4.74
117	Ngonalo at Vijaynagar	0.390	18.49	4.74
118	Tinning	0.234	11.09	4.74
119	Chicklong	0.585	27.74	4.74



*Petition for Approval of Business Plan and Multi
Year Tariff for the FY 2018-19 to 2020-21*

120	Thiratju	3.903	91.57	2.35
121	Charju	2.342	60.32	2.58
122	Sumhok Nallah	0.390	18.49	4.74
123	Tahin Nallah	0.390	18.49	4.74
124	Kachopani MHS	0.781	36.98	4.74

The Hon'ble Commission is requested to kindly consider & approve the ARR & Tariff as proposed above.

ANNEXURES



GOVERNMENT OF ARUNACHAL PRADESH
FINANCE, PLANNING & INVESTMENT DEPARTMENT
(PLANNING & INVESTMENT DIVISION)
A.P. CIVIL SECRETARIAT:: ITANAGAR

Annual Development Agenda, 2017-18

Department: Hydropower

(Rs. in lakh)			
Sl. No.	Particulars	Amount	Remarks
1	2	3	4
1	State Mini & Micro Hydel Development Programme (SMMHDP)		
A.	HYDEL GENERATION		
1	Mukto Micro hydel over river Shaikangchu (3 x 2000 Kw)	50.00	
2	Nuranang MHS Ph- II (2 x 500 Kw)	100.00	
3	Khajalong MHS at Khajalong (2 x 1000 Kw)	50.00	
4	Wari MHS at Khenewa Circle (2x 25 kW).	50.00	
5	Kojin Nallah MHS near Taliah (2 x 50 Kw)	20.00	
6	Kush MHS at Sangram (2 x 1000 Kw)	100.00	
7	Payu MHS at Koloriang (2 x 500 Kw)	100.00	
8	Kidding MHS (2 x 250 Kw)	10.00	
9	Fure MHP at Damin (1 x 50 Kw)	12.00	
10	Paya MHS at Hiya (2 x 50 Kw)	15.00	
11	Payu MHS at Pinchi (2 x 250 Kw)	50.00	
12	Pagu MHS under Palin Circle (2 x 1000 Kw)	252.00	
13	Angong Nallah MHS near Janbo (3 x 1500 Kw)	237.00	
14	Subbung MHS near Supsing village (3 x 1000 Kw)	132.00	
15	Sippa MHS at Kagi Village (2 x 25 Kw)	50.00	
16	Sirru MHS at Tirbin (2 x 25 Kw)	20.00	
17	Sirikorong MHS at Hollong Village under Mechuka Circle (2 x 250 kW)	10.00	
18	Pakhan Kha MHS near Devapuri (2 x 250 Kw)	5.00	
19	Namchik Mini Hydel Project (2 x 250 Kw)	5.00	
20	Namchik Ph-II MHS (2 x 150 Kw)	5.00	
21	Tissue MHS Ph-II (2 x 250 kW)	500.00	
22	Tirru Nallah MHS near Rusa village (2 x 50 Kw)	5.00	
	Total (A)	1778.00	
B.	BUILDING		
1	C/o Office Building for AE(C) at Lumla	5.00	
2	C/o SE's Office Building at Bomdila	50.00	
3	C/o Security compound wall for Bomdila Civil Circle & Bomdila Civil Division	21.00	
4	Land development for creation of infrastructure for Officers of CE's office at Naharlagun/ Itanagar	20.00	
5	C/o Security Fencing around Civil Sub-Division at Itanagar	4.00	
6	Approach road to DHPD Residential complex at Itanagar	20.00	
7	C/o RCC Boundary wall around Civil & EM Division office/Residential Hydro Power Complex at Manpoliang	25.00	
8	C/o Newly created Office building for Koloriang Civil Division, DHPD at Koloriang	15.00	
9	C/o Residential Building for Civil Division staffs at Koloriang (T-IV-2 nos., T-III-3 nos. & Bachelor Barrack 5 Men)	16.00	
10	C/o T-V residential for EE(C), Koloriang	5.00	
11	C/o 10 men Bachelor Barrack for Deptt. of Power staff at Along	2.00	
12	Approach Road to Aalo Division complex office. (SH: Protection work at entry gate)	16.00	
13	Protection of T-IV EE (C) residential Qtr. at Aalo	11.75	
14	Protection of B/Barrack at Aalo DHPD Complex	5.00	
15	C/o 6 Unit B/Barrack at Sirikorong MHS (2 x 250 kW) near Mechuka	30.00	
16	C/o Circle Office Building at Jengging	9.25	
17	Renovation of residential Qtr. of SE, Siang at Jengging	3.00	



		(Rs. in lakh)	
No.	Particulars	Amount	Remarks
1	2	3	4
18	C/o SE Office Building cum Residential buildings for newly created Pasighat Circle / Lower Siang-Dibang Basin (SH: Office Bldg.-1 No. T-V/1 No., T-III/2 Nos., T-II/4 Nos. & Bachelor Barrack - 5 Units)	137.00	
19	C/o Division Office cum Residential buildings for DHPD at Pangin (SH: Office Bldg.-1 No. T-V/1 No., T-III/2 Nos., T-II/3 Nos. & 5 men Bachelor Barrack)	70.00	
20	C/o Residential building for Anini Civil Division under DHPD in Dibang Valley (SH: T-III/2Nos. & T-II/2Nos.)	10.00	
21	C/o Type-III/1 No. & 5 men B/Barrack for staff of Tezu EM Division	10.00	
22	C/o 2 Men B/Barrack for operational staff of Langpani MHS	8.00	
23	C/o Resdl. Building for DHPD at Hawaii (SH: B/Barrack-4 Unit)	10.00	
	Total (B)	503.00	
C. HYDEL IMPROVEMENT			
1	Mukto SHP over Shaikangchu (C/o new Spillway of Mukto SHP (3 x 2000 kW)	100.00	
2	Rupa MHP (2 x 100 Kw)	5.45	
3	Rahung MHP (3 x 250 Kw)	26.05	
4	Synchronization of Dirang MHS (4 x 500 kW), Zhangdongrong MHS (2 x 500 kW) and Rahung MHS (3 x 250 kW) into Local Grid	90.00	
5	Tago MHP (3 x 1500 Kw)	52.00	
6	Mai Ph- II (2 x 500 Kw) (SH: EM Works & Power House)	78.00	
7	Mai Ph- II (2 x 500 Kw) (SH: Penstock, Spillway, Forebay Tank, Fencing)	100.00	
8	Dulom MHP (4 x 100 Kw)	8.50	
9	Strengthening of Approach road to weir and intake i/c side drain & culvert of Sippi SHP.	5.00	
10	Mechuka MHP (2 x 50 Kw + 1 x 250 Kw)	20.18	
11	Special repair & Maintenance of Liromoba MHS (2 x 1000 kW) (SH: Culvert, Protection work in Approach road to Power House)	32.86	
12	Synchronization of Mechuka MHS (6 x 25 kW) (Local Grid)	27.96	
13	Siri MHS at Gossang (2 x 250 kW) (SH: C/o Weir Intake, Spillway & EM equipments)	10.00	
14	Sirnyuk SHP (2 x 1000 kW) (SH: Switchyard, VCB & Power Channel)	28.00	
15	Special repair and Maintenance of Kopu MHS (1 x 250 kW)	15.00	
16	Special repair of Awapani MHS (3 x 50 kW + 2 x 250 kW) at Alinye	50.00	
17	Special repair of Doorah Nallah MHS (4 x 100 kW)	50.00	
18	Special repair of Yapak Nallah MHS (SH: Intake Weir)	20.00	
19	Special repair of Mai Pani MHP	5.00	
20	Special repair of Ashapani MHP (2 x 30 kW)	10.00	
21	Tirathju MHS (4x 250 Kw)	50.00	
22	Special Repair of Charju MHS (3 x 200 kW)	30.00	
23	Special repair of 2 x 500 kW Domkhong Hydro Power Project at Kalaktang	300.00	
24	Special repair of Pacha SHP (2 x 1500 kW)	40.00	
25	Special repair of Ayingmuri MHS (2 x 125 kW)	35.00	
26	Re-construction of damaged Feeder Channel of Shaikangchu SHP (3 x 2000 kW) at Gangkhar	30.00	
27	Special repair and maintenance of Civil components of Bramdungchung Ph-I Hydel Station (2 x 50 KW)	15.00	
28	Special repair & maintenance of Unit - III of Nuranang SHP Ph-I (3 x 2000 kW)	60.00	
29	Special repair of Thingbu MHS (2 x 50 kW) (SH: EM equipments of Unit - I & II)	20.00	
30	Augmentation of Dikshi MHS (1 x 30 kW) to (2 x 30 kW)	30.00	
31	Improvement of Saskhrong Hydel Station (3 x 100 KW)	40.00	

[Signature]



(Rs. in lakh)

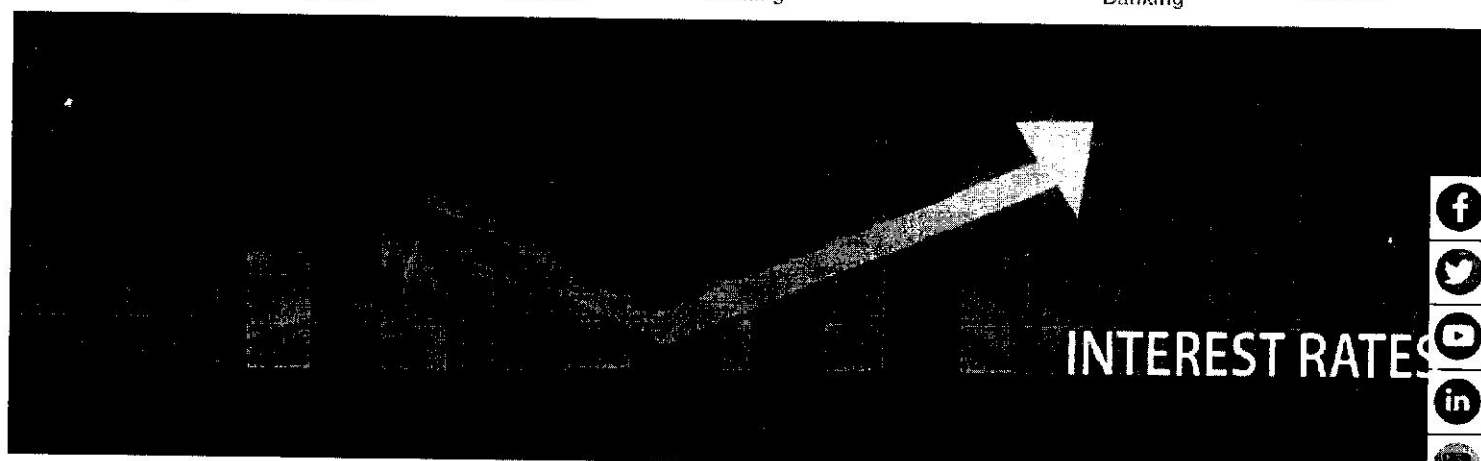
Sl. No.	Particulars	Amount	Remarks
1	2	3	4
32	Special repair and maintenance of Desilting Tank and head race channel of Pakke Kessang hydel station (1 x 30 kW).	25.00	
33	Special Repair of Tago MHS (3 x 1500 kW) (SH : Replacement of penstock pipe)	50.00	
34	Special repair of Dumi Dutte MHS (1 x 30 kW) at Pipsorang	30.00	
35	Protection of Forebay tank and Improvement in Power Evacuation system of Rina SHP (2 x 1000 kW) from Rina to Pasighat for Grid Connection	257.00	
36	C/o (1 x 2.50) MVA, 33/11 kV Sub-station at Kambang SHEP (3 x 2000 kW)	143.00	
37	Special repair of Krawati Nallah MHS (SH: Intake Weir)	30.00	
	Total (C)	1919.00	
D.	SUB-HEAD: MAINTENANCE OF ASSETS		
1	Maintenance of Assets (Hydel Stations, Buildings/Petty works etc.)	800.00	Department shall furnish schematic details before incurring any expenditure
	Grand Total (A+B+C+D)	5000.00	

Director (State Plan)
Govt. of A.P.
Itanagar



Search SBI Site

हिंदी

[Personal Banking](#)
[Agricultural / Rural](#)
[NRI Services](#)
[International Banking](#)
[SME](#)
[Corporate Banking](#)
[Services](#)

[SBI Corporate Website](#)
[Interest Rates](#)
[Base Rate \(Historical Data\)](#)

SBI Quick Links

Quick Links

[PRODUCTS / SERVICES](#)

Select Services

[LOCATORS](#)

HOME

Interest Rates

Deposit Rates

[Savings Bank Deposits](#)

NRI

[Loan Schemes Interest Rates](#)
[Marginal Cost of fund based lending rate\(MCLR\) with effect from 01 04 2018](#)
[Interest Rate For Borrowers Other Than P Segment \(Commercial Loans\)](#)
[SME Interest Range Dec 2016](#)
[Interest Rates On Pre Shipment Credit And Export Bill Discounting in Foreign Currency Loans](#)
[Interest Rates On FCNB Loans To Exporters Corporates](#)

Processing Fees

[Penal Interest & Other Charges](#)
[Benchmark Prime Lending Rate \(Historical Data\)](#)
[Base Rate \(Historical Data\)](#)
[Old Interest Rates \(Last 10 Years\)](#)

SME Segment

[Agricultural Segment](#)

BASE RATE (HISTORICAL DATA)

Effective Date	Interest Rate (%)
01.04.2018	8.70
01.01.2018	8.65
01.10.2017	8.95
01.07.2017	9.00
01.04.2017	9.10
01.01.2017	9.25
05.10.2015	9.30
08.06.2015	9.70
10.04.2015	9.85
07.11.2013	10.00
19.09.2013	9.80
04.02.2013	9.70
20.09.2012	9.75
13.08.2011	10.00
11.07.2011	9.50
12.05.2011	9.25
25.04.2011	8.50
14.02.2011	8.25
03.01.2011	8.00
21.10.2010	7.60
01.07.2010	7.50

[Internet Banking](#)

OnlineSBI : Internet
Banking Pay Your Utility
Bill 24 X 7!

[Interest Rates](#)


Click to enable
Adobe Flash
Player



**Yearly Wholesale Price Index****Name of Commodity :** (Q). MANUFACTURE OF ELECTRICAL EQUIPMENT**Type :** Group Item**Weight :** 2.9297**Base Year :** 2011-12 = 100

2016	108.2	2016-17	108.2
2015	109.2	2015-16	109
2014	108.9	2014-15	109.5
2013	103.9	2013-14	104.8
2012		2012-13	103.4

1. Figure 0 may be treated as index for particular item not-available.



Content Owned, Updated and Maintained by Office of the Economic Adviser.



Website designed & hosted by National Informatics Centre.

Last
updated on
22-05-2018
|
Disclaimer



संयुक्त प्रसारण
केन्द्र, नई दिल्ली
दूरभाष : 2301 2302

संयुक्त प्रसारण
केन्द्र, नई दिल्ली
दूरभाष : 2301 2302

संयुक्त प्रसारण
केन्द्र, नई दिल्ली
दूरभाष : 2301 2302

▼ **Yearly Wholesale Price Index**
 ▼ **Name of Commodity :** Steel structures
 ▼ **Type :** Individual Commodity
 ▼ **Weight :** 0.59281
 ▼ **Base Year :** 2011-12 = 100



2016	106.1	2016-17	105.8
2015	110.6	2015-16	110.2
2014	108.3	2014-15	109.5
2013	107.3	2013-14	107.4
2012		2012-13	107.4

1. Figure 0 may be treated as index for particular item not-available.



Content Owned, Updated and Maintained by Office of the Economic Adviser.



Website designed & hosted by National Informatics Centre.

Last
updated on
22-05-2018
!
Disclaimer