



APPLICATION

FOR

ANNUAL REVENUE REQUIREMENT (ARR)

&

TARIFF PETITION FOR

FY 2012-13

PART – A

Submitted by:
Department of Hydro Power Development-2012

GENERAL HEADINGS OF PROCEEDINGS

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

Filing No.....

Case No.....

IN THE MATTER OF:

APPLICATION FOR APPROVAL OF ANNUAL
REVENUE REQUIREMENT AND TARIFF PETITION OF
HYDRO ELECTRIC STATIONS, DEPARTMENT OF
HYDRO POWER DEVELOPMENT, ARUNACHAL
PRADESH FOR THE FINANCIAL YEAR 2012-13 IN
ACCORDANCE WITH THE APSERC (TERMS &
CONDITIONS OF DETERMINATION OF HYDRO
GENERATION TARIFF) REGULATIONS, 2011 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

AFFIDAVIT

BEFORE HON'BLE ELECTRICITY REGULATORY COMMISSION

FOR THE STATE OF ARUNACHAL PRADESH

FILE No: _____

CASE No: _____

IN THE MATTER OF : **Petition for Approval of Annual Revenue Requirement (ARR)**
and Tariff Proposal for FY 2012-13 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 Aggregate Revenue Requirement ("ARR") for the Financial Year 2012-13 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: December, 2012

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 December, 2012 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.

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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

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 60.90 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 ongoing 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 2820 Nos. staff comprising of experienced engineers, technical staff and other supporting staff. The Department of Hydro Power Development has also been assigned the very important responsibility of acting as nodal agency for coordinating and overseeing the allotment and development of Mega Hydro Electric Projects in the State by IPPs as State’s Mega & Small Hydro Power Policy. Department is looking forward to transforming the long awaited dream of the people of the State into reality that Arunachal Pradesh shall be the “FUTURE POWER HOUSE OF THE COUNTRY”.

INSTALLED CAPACITY

a) Hydro Electric Power Stations

The Department has total installed capacity of 60.90 MW. Details of installed capacity of hydroelectric power stations of DHPD for the year 2011-2012 are given here under:-

1. Details of Hydro Electric Power Stations

SL. No.	Name of the Stations	Units	Installed Capacity (in KW)	Firm Capacity (in KW)	Year of Commissioning
Tawang District					
1	Kitpi Ph-I	3 x 500	1500	1000	1977-78
2	Nuranang	3 x 2000	6000	4000	1996-97
3	T. Gompa	50	50	50	2001-02
4	Dudunghar	30	30	30	2004-05
5	Bramdhongchung	2 x 50	100	50	2008-09
6	Shakti Nallah	2 x 50	100	50	2008-09
7	Kitpi MHSPH-II	2 x 1500	3000	3000	2008-09
8	Challengkang Ph-II	30	30	30	2008-09
9	Bongleng	2 x 50	100	50	2009-10
10	Thimbu	2 x 50	100	50	2009-10
11	Bramdhongchung Ph-II	2 x 50	100	50	2010-11
12	Tsechu Nallah	2 x 50	100	50	2010-11
West Kameng District					
13	Rahung	3 x 250	750	500	1972-73
14	Dirang	4 x 500	2000	1500	1977-78
15	Sessa	3 x 500	1500	1000	1992-93
16	Rupa	2 x 100	200	200	1997-98
17	Dokumpani	30	30	30	2000-01
18	Domkhong	2 x 1000	2000	500	2008-09
19	Sinchung	50	50	30	2008-09
20	Ankaling	30	30	20	2009-10
21	Khet	2 x 50	100	50	2009-10

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SL. No.	Name of the Stations	Units	Installed Capacity	Firm Capacity (in KW)	Year of Commissioning
22	Dikshi	30	30	20	2010-11
23	Khadiyabey	2 x 100	200		2011-12
East Kameng District					
24	Seppa	3 x 100	300	200	1980-81
25	Pakke Kessang	30	30	30	2001-02
26	Pacha MHS	2 x 1500	3000	3000	2008-09
27	Pakoti	2 x 50	100	100	2010-11
28	Patta Nallah	2 x 50	100	100	2010-11
29	Watte Mame	50	50	50	2010-11
30	Kade Nallah	50	50	40	2010-11
Kurung Kumey District					
31	Patte MHS at Tali	30	30	35	2004-05
32	Koye	2 x 50	100	40	2009-10
33	Chambang	30	30	25	2009-10
34	Paya MHS at Hiya	2 x 50	100		2011-12
Lower Subansiri District					
35	Mai Ph-I	4 x 500	2000	1500	1977-78
36	Mai Ph-II	2 x 500	1000	1000	1982-83
37	Tago	3 x 1500	4500	3000	1992-93
Upper Subansiri District					
38	Dulom (Daporijo)	4 x 100	400	300	1981-82
39	Maro	30	30	25	2002-03
40	Sippi	2 x 2000	4000	4000	2008-09
41	Pinto Karo MHS	25	25		2011-12

SL. No.	Name of the Stations	Units	Installed Capacity	Firm Capacity (in KW)	Year of Commissioning
42	Sikin Karo	2 x 100	200		2011-12
43	Sinyum Koro	2 x 50	100		2011-12
44	Kojin Nallah	2 x 50	100		2011-12
West Siang District					
45	Pagi (Basar)	2 x 50	100	50	1972-73
46	Along	4 x 100	400	200	1975-76
47	Ego-Echi (Dali)	4 x 100	400	300	1987-88
48	Mechuka	2 x 50 + 1 x 250	350	150	1989-90 2005-06
49	Yomcha	50	50	30	2001-02
50	Tato	50	50	50	2004-05
51	Beye	30	30	20	2004-05
52	Kambang	3 x 2000	6000	6000	2008-09
53	Liromoba	2 x 1000	2000	2000	2008-09
54	Yingko Sikong at Rapum	50	50	50	2009-10
55	Angu	50	50	30	2010-11
56	Solegomang MHS	50	50		2011-12
57	Borong MHS	50	50		2011-12
Upper Siang District					
58	Yingkiong Ph-I	3 x 50	150	100	1980-81
59	Sikut/ Tuting	2 x 50	100	70	1984-85
60	Yingkiong Ph-II	2 x 100	200	100	1992-93
61	Selli at Geku	2 x 250	500	500	1994-95
62	Sirnyuk	2 x 1000	2000	2000	1996-97

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Tariff Proposal for FY 2012-13*

SL. No.	Name of the Stations	Units	Installed Capacity	Firm Capacity (in KW)	Year of Commissioning
63	Kopu at Tuting	50 + 250	300	250	2004-05 2007-08
64	Silingri	50	50	50	2008-09
65	Singa	30	30	30	2008-09
66	Ngaming	50	50	50	2008-09
67	Sika	15	15	15	2008-09
68	Mayung	5	5	5	2009-10
69	Gosang	2 x 250	500	500	2011-12
70	Kote MHS	50	50		2011-12
71	Sijen MHS at Adi pasi	50	50		2011-12
72	Pyabung MHS	25	25		2011-12
East Siang District					
73	Pasighat	2 x 100	200	200	1974-75
74	Yembung	4 x 500	2000	1500	1994-95
75	Silli	50	50	30	2001-02
76	Rina	2 x 1000	2000	2000	2008-09
Lower Dibang Valley District					
77	Deopani Ph-I	3 x 250	750	500	1986-87
78	Abhapani	250 + 2 x 100	450	300	1994-95
79	Deopani Ph-II	3 x 250	750	500	2004-05
Dibang Valley District					
80	Anini/ Awapani Ph-I	3 x 50	150	150	1994-95
81	Tah Ahfra Ph-I & Ph-II	50 + 50	100	50	2001-02 2009-10
82	Chini Afra	250	250	250	2001-02

*Petition for Approval of Annual Revenue Requirement &
Tariff Proposal for FY 2012-13*

SL. No.	Name of the Stations	Units	Installed Capacity	Firm Capacity (in KW)	Year of Commissioning
83	Echi Ahfra	2 x 200	400	200	2005-06
84	Awapani Ph-II	2 x 250	500	500	2005-06
85	Echito Nallah	2 x 20	40	30	2010-11
86	Rupapani	2 x 20	40	30	2010-11
87	Chu Nallah	2 x 15	30		2011-12
Lohit District					
88	Dura Nallah	4 x 100	400	250	1976-77
89	Tafragram	250	250	150	1984-85
Anjaw District					
90	Kaho	10	10	10	2004-05
91	Kebitho	30	30	30	2004-05
92	Mati Nallah	2 x 250	500	150	2004-05
93	Yapak Nallah	2 x 100	200	200	2005-06
94	Teepani	2 x 250	500	500	2009-10
95	Krawti Nallah	2 x 50	100	100	2009-10
96	Hathipani	2 x 50	100	100	2009-10
97	Tah Nallah	2 x 50	100	100	2009-10
98	Maipani	2 x 30	60	60	2010-11
99	Ashapani	2 x 30	60		2011-12
100	Langpani	2 x 200	400		2011-12
Changlang District					
101	Tissue	4 x 100	400	300	1986-87
102	Jongkey Nallah	25	25	25	2011-12
103	Ngonalo at Vijaynagar	2 x 50	100	75	2010-11

SL. No.	Name of the Stations	Units	Installed Capacity	Firm Capacity (in KW)	Year of Commissioning
104	Tinning	2 x 30	60	30	2010-11
105	Chicklong	3 x 50	150		2011-12
Tirap District					
106	Thiratju	4 x 250	1000	500	1978-79
107	Charju	3 x 200	600	400	1984-85
108	Sumhok Nallah	2 x 50	100	50	2009-10
109	Tahin Nallah	2 x 50	100		2011-12
	TOTAL		60905	47525	

2. ENERGY SALES WITHIN THE STATE TO POWER DEPARTMENT

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

2. Performance during 2011-12

SL. No.	Name of the Stations	Installed Capacity (in KW)	Net Generation in KWH
Tawang District			(KWH)
1	Kitpi Ph-I	1500	2154776
2	Nuranang	6000	10792200
3	T. Gompa	50	37696
4	Dudunghar	30	22172
5	Bramdhongchung	100	28519
6	Shakti Nallah	100	146778
7	Kitpi MHSPH-II	3000	6086483

SL. No.	Name of the Stations	Installed Capacity	Net Generation in KWH
8	Chellengkang Ph-II	30	89452
9	Bongleng	100	0
10	Thimbu	100	48465
11	Bramdhongchung Ph-II	100	2550
12	Tsechu Nallah	100	518
West Kameng District			
13	Rahung	750	841126
14	Dirang	2000	4484647
15	Sessa	1500	2360335
16	Rupa	200	483487
17	Dokumpani	30	125161
18	Domkhong	2000	585067
19	Sinchung	50	0
20	Ankaling	30	496
21	Khet	100	100932
22	Dikshi	30	185678
23	Khadiyabey	200	
East Kameng District			
24	Seppa	300	0
25	Pakke Kessang	30	115770
26	Pacha MHS	3000	5755210
27	Pakoti	100	0
28	Patta Nallah	100	0
29	Watte Mame	50	0

SL. No.	Name of the Stations	Installed Capacity	Net Generation in KWH
30	Kade Nallah	50	0
Kurung Kumey District			
31	Patte MHS at Tali	30	4983
32	Koye	100	12112
33	Chambang	30	9245
34	Paya MHS at Hiya	100	
Lower Subansiri District			
35	Mai Ph-I	2000	53567
36	Mai Ph-II	1000	0
37	Tago	4500	670261
Upper Subansiri District			
38	Dulom (Daporijo)	400	0
39	Maro	30	0
40	Sippi	4000	4648380
41	Pinto Karo MHS	25	0
42	Sikin Karo	200	0
43	Sinyum Koro	100	0
44	Kojin Nallah	100	0
West Siang District			
45	Pagi (Basar)	100	46116
46	Along	400	0
47	Ego-Echi (Dali)	400	728097
48	Mechuka	350	285540
49	Yomcha	50	0

SL. No.	Name of the Stations	Installed Capacity	Net Generation in KWH
50	Tato	50	4731
51	Beye	30	57724.66
52	Kambang	6000	3475200
53	Liromoba	2000	412323
54	Yingko Sikong at Rapum	50	0
55	Angu	50	1776.49
56	Solegomang MHS	50	
57	Borung MHS	50	
Upper Siang District			
58	Yingkiong Ph-I	150	188698
59	Sikut/ Tuting	100	222
60	Yingkiong Ph-II	200	371987
61	Selli at Geku	500	762944
62	Sirnyuk	2000	804549
63	Kopu at Tuting	300	626200
64	Silingri	50	49420
65	Singa	30	10124
66	Ngaming	50	11020
67	Sika	15	9020
68	Mayung	5	4440
69	Gosang	500	0
70	Kote MHS	50	
71	Sijen MHS at Adi pasi	50	
72	Pyabung MHS	25	

SL. No.	Name of the Stations	Installed Capacity	Net Generation in KWH
East Siang District			
73	Pasighat	200	402668
74	Yembung	2000	568805
75	Silli	50	47855
76	Rina	2000	3101727
Lower Dibang Valley District			
77	Deopani Ph-I	750	1112579
78	Abhapani	450	243563.05
79	Deopani Ph-II	750	337455
Dibang Valley District			
80	Anini/ Awapani Ph-I	150	60147
81	Tah Ahfra Ph-I & Ph-II	100	114505
82	Chini Afra	250	447969
83	Echi Ahfra	400	122467
84	Awapani Ph-II	500	844891
85	Echito Nallah	40	3140
86	Rupapani	40	1482
87	Chu Nallah	30	
Lohit District			
88	Dura Nallah	400	296322
89	Tafragram	250	212753
Anjaw District			
90	Kaho	10	5094.78
91	Kebitho	30	0

SL. No.	Name of the Stations	Installed Capacity	Net Generation in KWH
92	Mati Nallah	500	821480.53
93	Yapak Nallah	200	308644.82
94	Teepani	500	728766.39
95	Krawti Nallah	100	1596
96	Hathipani	100	0
97	Tah Nallah	100	0
98	Maipani	60	0
99	Ashapani	60	
100	Langpani	400	
Changlang District			
101	Tissue	400	211734
102	Jongkey Nallah	25	266
103	Ngonalo at Vijaynagar	100	0
104	Tinning	60	0
105	Chicklong	150	
Tirap District			
106	Thiratju	1000	758.45
107	Charju	600	761308.6
108	Sumhok Nallah	100	14357
109	Tahin Nallah	100	
	TOTAL	60905	58468533

A. **DETERMINATION OF TARIFF FOR THE HEPs**

As defined in the APsERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011, tariff for sale of electricity from a hydro power station shall comprise of two parts namely annual capacity charges and energy charges. Accordingly following has been considered for calculating Annual Fixed Charges for the HEPs:

Annual Fixed Charges:

The Annual Fixed Charges (AFC) consists of:-

- a) Interest on Loan Capital.
- b) Depreciation.
- c) Return on Equity.
- d) Operation & Maintenance Expenses.
- e) Interest on Working Capital.
- f) Taxes on Income.

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

Sl. No.	Particulars	Unit	Value	
1	Auxiliary Consumption		With Rotating Exciter	With Static Excitation
	Surface	%	0.70	1.00
	Underground	%	0.90	1.20
2	Transformation Losses	%	0.50	
3	O&M Expenses			
	For HEPs more than 5 yrs in FY 2007-08	Actual exp. for the relevant year		
	For HEPs less than 5 yrs in operation	Actual exp. for the relevant year		
	Annual Escalation	%	N.A.	
4	Depreciation			
	Plant Life	years	As per Regulations	
	Residual	%	10	
5	Working Capital			
	Receivable(2 months Fixed Cost)	Months	2	
	O & M Expenses	Months	1	
	Spares for Maintenance	%	15	O&M Expenses
	Escalation in Spares Inventory	%	6 per annum	
	Rate of Interest	%	14.75 as per PLR of SBI as on 01.04.2012	

6	Return on Equity	%	14	
7	Equity	%	30	Net Project Cost
	Loan	%	70	Net Project Cost
8	Interest	%	as per sanction	
9	Moratorium		No moratorium after COD	

a) Project Cost

Clause 27 of APERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011 provides that the project cost of the HEPs shall be actual capital expenditure on the date of commercial operation.

Further clause 29 of APERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011 provides renovation & modernization of generating station for the purpose of extension of life beyond the useful life of the generating station. DHPD has undertaken major repair works with regard to the old HEPs. DHPD has included the cost of these capital works in the total project cost. Department proposes to incur additional capital expenditures towards repair & Renovation of various HEPs during FY 2012-13 & FY 2013-14.

It is submitted that project wise details of capital cost is not readily available. The details are being compiled and shall be made available in future filing. DHPD has considered only capital expenditures made on new schemes for calculation of equity.

b) Design Energy

Design energy of the HEPs has been calculated in accordance with the APERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011. Accordingly design energy of the HEPs as provided below has been considered for calculation of Gross Generation.

4. Design Energy

SL. No.	Name of the Stations	Installed Capacity (in KW)	Design Energy (Annual)
			MU
Tawang District			
1	Kitpi Ph-I	1500	12.48
2	Nuranang	6000	49.93
3	T. Gompa	50	0.42
4	Dudunghar	30	0.25
5	Bramdhongchung	100	0.83
6	Shakti Nallah	100	0.83
7	Kitpi MHSPH-II	3000	24.97
8	Chellengkang Ph-II	30	0.25
9	Bongleng	100	0.83
10	Thimbu	100	0.83
11	Bramdhongchung Ph-II	100	0.83
12	Tsechu Nallah	100	0.83
West Kameng District			
13	Rahung	750	6.24
14	Dirang	2000	16.64
15	Sessa	1500	12.48
16	Rupa	200	1.66
17	Dokumpani	30	0.25
18	Domkhong	2000	16.64

SL. No.	Name of the Stations	Installed Capacity (in KW)	Design Energy (Annual)
19	Sinchung	50	0.42
20	Ankaling	30	0.25
21	Khet	100	0.83
22	Dikshi	30	0.25
23	Khadiyabey	200	1.66
East Kameng District			
24	Seppa	300	2.50
25	Pakke Kessang	30	0.25
26	Pacha MHS	3000	24.97
27	Pakoti	100	0.83
28	Patta Nallah	100	0.83
29	Watte Mame	50	0.42
30	Kade Nallah	50	0.42
Kurung Kumey District			
31	Patte MHS at Tali	30	0.25
32	Koye	100	0.42
33	Chambang	30	0.25
34	Paya MHS at Hiya	100	0.83
Lower Subansiri District			
35	Mai Ph-I	2000	16.64
36	Mai Ph-II	1000	8.32
37	Tago	4500	37.45
Upper Subansiri District			
38	Dulom (Daporijo)	400	3.33

SL. No.	Name of the Stations	Installed Capacity (in KW)	Design Energy (Annual)
39	Maro	30	0.25
40	Sippi	4000	33.29
41	Pinto Karo MHS	25	0.21
42	Sikin Karo	200	1.66
43	Sinyum Koro	100	0.83
44	Kojin Nallah	100	0.83
West Siang District			
45	Pagi (Basar)	100	0.83
46	Along	400	3.33
47	Ego-Echi (Dali)	400	3.33
48	Mechuka	350	2.91
49	Yomcha	50	0.42
50	Tato	50	0.42
51	Beye	30	0.25
52	Kambang	6000	49.93
53	Liromoba	2000	16.64
54	Yingko Sikong at Rapum	50	0.42
55	Angu	50	0.42
56	Solegomang MHS	50	0.42
57	Borung MHS	50	0.42
Upper Siang District			
58	Yingkiong Ph-I	150	1.25
59	Sikut/ Tuting	100	0.83
60	Yingkiong Ph-II	200	1.66

SL. No.	Name of the Stations	Installed Capacity (in KW)	Design Energy (Annual)
61	Selli at Geku	500	4.16
62	Sirnyuk	2000	16.64
63	Kopu at Tuting	300	2.50
64	Silingri	50	0.42
65	Singa	30	0.25
66	Ngaming	50	0.42
67	Sika	15	0.12
68	Mayung	5	0.04
69	Gosang	500	4.16
70	Kote MHS	50	0.42
71	Sijen MHS at Adi pasi	50	0.42
72	Pyabung MHS	25	0.21
East Siang District			
73	Pasighat	200	1.66
74	Yembung	2000	16.64
75	Silli	50	0.42
76	Rina	2000	16.64
Lower Dibang Valley District			
77	Deopani Ph-I	750	6.24
78	Abhapani	450	3.74
79	Deopani Ph-II	750	6.24
Dibang Valley District			
80	Anini/ Awapani Ph-I	150	1.25
81	Tah Ahfra Ph-I & Ph-II	100	0.83

SL. No.	Name of the Stations	Installed Capacity (in KW)	Design Energy (Annual)
82	Chini Afra	250	2.08
83	Echi Ahfra	400	3.33
84	Awapani Ph-II	500	4.16
85	Echito Nallah	40	0.33
86	Rupapani	40	0.33
87	Chu Nallah	30	0.25
Lohit District			
88	Dura Nallah	400	3.33
89	Tafragram	250	2.08
Anjaw District			
90	Kaho	10	0.08
91	Kebitho	30	0.25
92	Mati Nallah	500	4.16
93	Yapak Nallah	200	1.66
94	Teepani	500	4.16
95	Krawti Nallah	100	0.83
96	Hathipani	100	0.83
97	Tah Nallah	100	0.83
98	Maipani	60	0.50
99	Ashapani	60	0.50
100	Langpani	400	3.33
Changlang District			
101	Tissue	400	3.33
102	Jongkey Nallah	25	0.21

SL. No.	Name of the Stations	Installed Capacity (in KW)	Design Energy (Annual)
103	Ngonalo at Vijaynagar	100	0.83
104	Tinning	60	0.50
105	Chicklong	150	1.25
Tirap District			
106	Thiratju	1000	8.32
107	Charju	600	4.99
108	Sumhok Nallah	100	0.83
109	Tahin Nallah	100	0.83
	TOTAL	60905	506.44

c) Interest on Loan Capital

Clause 33 of APERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011 provides that interest on loan taken to fund the cost of project shall be recovered through tariff. Project cost of the HEPs of DHPD has been funded by the Budgetary support/central & state sponsored schemes and the department has not taken any loan for financing the projects. In view of the above no interest on loan has been claimed. DHPD submits that it will claim interest on loan in accordance with the above regulation in case loan is availed for financing of projects in future.

d) Depreciation

Regulation 36 of APERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011 provides that depreciation is to be calculated annually based on Straight Line Method considering the useful life. As HEP wise and asset wise details is not available depreciation has been calculated at an average rate of 2.57% on the asset value considering the life of project to be 35 years. Details of depreciation for the HEPs are given as under:-

(₹ in Crores)

5. Depreciation

Year	Opening	Addition	Closing	Rate of Depreciation	Depreciation
2010-11	823.42	0.00	823.42	2.57%	21.16
2011-12	823.42	2.75	826.17	2.57%	21.23
2012-13	826.17	2.75	828.91	2.57%	21.30

e) Return on Equity (ROE)

As per provision under Regulation 32 of APSSRC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011, Return on Equity has been considered @ 14% per annum for each of Hydro Power Station. It is submitted that project wise details of capital cost is not readily available. The details are being compiled and shall be made available in future filing. DHPD has considered only capital expenditures made on new schemes for calculation of equity.

The Equity for the purpose of calculation of ROE has been computed as per Regulation 30 of APSSRC Regulations, 2011. Accordingly Debt-Equity ratio of 70:30 has been considered. Further expenditure on renovation, modernization and

life extension has also been considered for servicing on normative debt-equity ratio of 70:30. Calculation of ROE is provided below:

(₹ in Crores)

6. Calculation of return on Equity

Particular	FY 2010-11	FY 2011-12	FY 2012-13
Gross Fixed Asset	823.42	826.17	828.91
Equity (30%)	247.03	247.85	248.67
Loan(70%)	576.39	578.32	580.24
Return on Equity(14%)	34.58	34.70	34.81

f) Operation & Maintenance Expenses

Regulation 34 of APERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011 provides that Operation & Maintenance Expenses of HEPs which have been in operation for 5 years or more in the base year of 2007-08 shall be derived on the basis of actual operation and maintenance expenses for the year 2003-04 to 2007-08 and after rationalizing the same for any pay revision shall be further escalated at the rate of 5.72% per annum to arrive at the O&M expenses for the relevant financial year.

The Operation & Maintenance Expenses of HEPs which are in operation for less than 5 years as on 01.04.2009 shall be fixed at 2% of the original project cost and the same shall be further escalated at rate of 5.72% to arrive at O&M expenses for the relevant year.

It is submitted that records of Operation & Maintenance expenses for individual HEPs for the period required by the regulations is not available and therefore actual O&M expenses for the department has been considered for determination of Annual Fixed Charges.

The O&M Expenses for FY 2010-11, FY 2011-12 & FY 2012-13 is detailed below:

(₹ in Crores)

7. Operation & Maintenance Expenses

Year	Employee Cost	R&M expenses	A&G Expenses	Total O&M Expenses
2010-11	36.25	2.26	2.00	40.50
2011-12	42.02	5.92	2.24	50.19
2012-13	45.18	6.36	2.41	53.95

g) Interest on Working Capital

The requirement of Working Capital & Interest thereon has been computed as per Clause 35 - "Interest on Working Capital" of the APERC (Terms & Conditions for determination of Tariff Filing) Regulations, 2011. Interest @ 14.75 % per annum on working capital has been considered which is the Prime Lending Rate (PLR) of State Bank of India on 01.04.2012. The calculation of interest on working capital is summarized below:-

8. Interest on Working Capital

(₹ in Crores)

S. No.	Particulars	FY 2010-11 Amount	FY 2011-12 Amount	FY 2012-13 Amount
1	2	3	4	5
1	Operation & Maintenance Expenses(1 month)	3.38	4.18	4.50
2	Maintenance of Spares(15% of O&M)	0.51	0.63	0.67
3	Receivables (2 months of fixed cost)	16.54	18.25	18.94
6	Total	20.43	23.06	24.11
7	Interest on Working Capital@ 14.75%	3.01	3.40	3.56

3. TOTAL ANNUAL FIXED CHARGES (AFC) AND ANNUAL REVENUE REQUIREMENT (ARR) FOR THE HEPS

Based on the above parameters, AFC & ARR for the Financial Year 2012-13 are given in the following table:

9. Annual Fixed Charges

(₹ in Crores)

Financial Year	2012-13
Interest on Loan	0.00
Depreciation	21.30
Return on Equity	34.81
O&M Expenses	53.95
Interest on Working Capital	3.56
Total Annual Fixed Cost	113.62

Indicative Tariff

Based on the Annual Fixed Charges and the Design Energy, the tariff for the year 2012-13 is worked out as under:-

10. Indicative Tariff

(₹ per kWh)

Sl.	AFC	Net Saleable Energy	Indicative Tariff(Rs./kwh)
1	113.62	500.36	2.27

4. REQUIREMENT OF RENOVATION & MODERNIZATION, STABILIZATION, MAJOR REPAIR WORKS AND ADDITIONAL CAPITALIZATION OF HEPS.

A. RM&U OF PROJECTS:

Hydro power stations are generally designed for useful operational life of about 35 years. Degradation of equipment's starts from commencement of regular operation of the power plant. As a result, over a period of time performance of the plants gradually deteriorates and PLF's plummets to alarmingly low levels. This necessitates undertaking of Renovation & Modernisation of old power stations .Before the plants complete their useful life; they are subjected to

Renovation and Modernization for bringing their performance back to a reasonable level. Sizeable capital investment is required to undertake RM & U of the projects. This investment cannot be met out of the normal O&M provisions which cover only the cost of routine maintenance. repairs, spares, insurance, establishment and are approved by the regulator in accordance to the regulations.Renovation & Modernisation of old power stations is cost effective, environment friendly and requires less time for implementation. Capacity addition through RM&U of old power stations is an attractive proposition in the present scenario, when huge investment is required for creation of new generating capacity. The economy in cost and time essentially results from the fact that apart from the availability of the existing infrastructure, only selective replacement of critical

components such as turbine runner, excitation system, governor etc. can lead to increase in efficiency, peak power and energy availability apart from giving a new lease on life to the power plant/ equipment.

The main objective of undertaking RM &U is as follows:

- (i) To arrest the deterioration in performance
- (ii) To improve availability, reliability, efficiency and safety of the equipment
- (iii) To regain lost capacity
- (iv) To extend useful life beyond designated life.
- (v) To save investments on new equipment

With above considerations, DHPD has taken up Renovation & Modernization of old HEPs. After full completion of RMU works there will be increase in annual generation from the HEPs.

B. STABILIZATION

There are a number of HEPs which are not operating as per the rated capacity and face breakdown frequently. Most of these HEPs are located in remote and far flung areas and are operating under harsh climatic conditions. Necessity of any additional capital expenditure occurs as a result of major break down of machinery, natural calamity i.e. earthquakes and floods etc.

The impact of these works both in respect of RMU and stabilization in terms of improvement in generation/Plant Load Factor shall be got evaluated and submitted to the Hon'ble Commission after completion of the works.

The petitioner also submits to the Hon'ble Commission as under:-

Even though DHPD is trying to optimize generation from the power projects, it is encountering the following issues:

5. Viability of Projects Operating in Isolation MODE

Even though the Tariff has been submitted on the basis of regulation alone, the petitioner wants to make the following submission:

- a) DHPD is operating some of the projects, in isolation mode. Their operation is at a very heavy cost to the Corporation.

ii) These projects are characterized by following special circumstances:-

- a) They operate in isolated mode, without Grid connectivity, catering to highly fluctuating domestic load, resulting in sub-optimal functioning & high maintenance costs due to frequent breakdowns caused by sudden load throw off.
- b) Though hydro power projects are otherwise too prone to vagaries of nature, these projects have the additional drawback that they do not have permanent head-works and protection structures. Thus the diversion structures are usually subjected to damages due to monsoon and flash floods, requiring additional capital investment regularly.
- c) Establishment costs for O&M is high compared to their capacities. Even though many projects are of smaller capacities, the manpower deployments per MW are high, as the necessities of operation, maintenance and supervision remain the same irrespective of the capacity.
- d) Some of these are aged plants and do not operate at their full capacities. These projects require RMU and stabilisation thus requiring additional capital expenditure, and that too of a much higher order than the rest of the State.

iii) Actual cost of operation and maintenance is much higher than O&M calculated on normative basis allowed as per APSSRC regulations. Thus, ARR and tariff as per tariff Regulations shall give far less revenue than the expenditure. In addition DHPD is forced to invest substantially to continue operation of these plants even if they are unviable, particularly since from social and environmental perspective, these plants are very relevant to the region - they produce clean and green energy in far flung and remote areas where the primary alternative source of energy (diesel generation) is not only very costly, but also inimical to the fragile ecosystem. Despite this substantial gap in revenue & expenditure, these projects justify their operation on examination from commercial, environmental as well as, most importantly, social angle.

iv) From social considerations, it can be seen that these projects are located in far flung and remote areas of the State, supplying electricity to socially backward communities residing in adverse climatic and geophysical conditions. Impact of these projects is spread to the marginalized and poor as well as in providing reliability to social activities such as healthcare, education, etc., thus enhancing the quality of life, particularly in rural areas. Marginal utility of this energy is of astronomical proportions – this minimum amount of power leads to maximum benefit to people.

The Hon'ble Commission is requested that considering the above facts the applicable clauses of APSSRC Regulations, 2011 for calculation of operation & maintenance expenses may kindly be relaxed to the extent of allowing O & M as per actual so as to enable DHPD to recover its expenses.

PRAAYER

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

- (a) Approve the Annual Fixed Charges as mentioned in Para 4
- (b) Pass necessary orders in the light of Additional submissions made in Para 5 above.
- (c) Approve reimbursement of Tariff Petition filing fee of ` 5,00,000/-
- (d) Pass such other and further order(s) as are deemed fit and proper in the facts and circumstances of the case.

Authorised Signatory

Place: Itanagar

Date:

ANNEXURE

Annexure 1

[illegible]

[illegible]

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Sl. No.	Name of Works	Sanctioned No. & Date	Locations	Year of taking up	Estimated Cost		Achievement upto 2010-11		Allocation / Target 2011-12	
					Original	Revised	Financial	Physical	Financial	Physical
1	2	3	4	5	6	7	8	9	10	11
50	Liromoba MHS at Liromoba (2 x 1000 Kw)	PWRS/W-692/2001/245-49 dated 31/01/2002	West Siang District	1993	2792.18	3073.73	3076.73	100%		
51	Kambang MHS (3 x 2000 Kw)	SPWD/W/AA&ES/92-93 dated 24/03/1993	West Siang District	1993	3832.92	4323.43	3908.18	100%		
52	MHS over river Yingko Sikong at Rapum village under Tato Circle	PWRS/HPD/EST-10/2009-10/3035-40 dated 07/08/2009	West Siang District	2007	40.14	86.05	47.93	100%		
53	Micro Hydel Scheme at Angu (1 x 50 Kw)	PWRS/HPD/EST/12/2006-07 dated 20/03/2007	West Siang District	2007	39.46	54.46	54.46	100%		
54	Siri Korong MHS at Hollong (Lhalung) village under Mechuka Circle	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	West Siang District	2008	646.11	646.11	150.32	25%		
55	Solegomang MHS at Lingdungloti village under Mechuka Circle	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	West Siang District	2008	88.83	88.83	65.73	70%		
56	Borung MHS at Monigong (1 x 50 Kw)	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	West Siang District	2008	175.00	175.00	80.19	45%		
57	Pitgong MHS at Kaying (2 x 2000 Kw)	PWRS/HPD/EST-6/2009-10/2882-87 DATED 30/07/2009	West Siang District		4705.96	4705.96				
SUB TOTAL OF WEST SIANG DISTRICT					12320.60	13153.57	7383.54			
58	Sirnyuk MHS at Jengging (2 x 1000 Kw)	SPWD/W/AA&ES/90-91 dated 31/03/1991	Upper Siang District	1991	2464.32	2516.41	2516.41	100%		
59	Sidip MHS at Mariyang (3 x 1000 Kw)	PWRS/W-692/2001/245-49 dated 31/01/2002	Upper Siang District	1991	3405.52	3509.08	2205.24			
60	Sipit MHS at Gette (2 x 1000 Kw)	PWRS/W-692/2001/245-49 dated 31/01/2002	Upper Siang District	1991	2147.84	2187.53	2183.29			
61	Angong Nallah MHS near Janbo (3 x 1500 Kw)	PWRS/HPD/EST-442009/3047-52 dated 10/08/2009	Upper Siang District	2004	3470.00	4900.00	4248.95	50%		
62	Gosang MHS at Gosang (2 x 250 Kw)	PWRS/HPD/EST-03/2004-05/641-52 dated 31/03/2005	Upper Siang District	2005	826.00	955.04	903.03	100%		
63	Kote MHS at Migging (1 x 50 Kw)	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	Upper Siang District	2008	96.70	96.70	75.59	75%		
64	Mayung MHS (1 x 5 Kw)	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	Upper Siang District	2008	22.22	22.22	22.22	100%		
65	Sika MHS at Likor (1 x 15 Kw)	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	Upper Siang District	2008	50.00	50.00	50.00	100%		
66	Sijen MHS at Adi Pasi (1 x 50 Kw)	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	Upper Siang District	2008	91.41	91.41	76.21	80%		
67	Pyabung MHS at Rebo (1 x 30 Kw)	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	Upper Siang District	2008	74.13	74.13	59.17	75%		
SUB TOTAL OF UPPER SIANG DISTRICT					12648.14	14402.52	12340.11			

Sl. No.	Name of Works	Sanctioned No. & Date	Locations	Year of taking up	Estimated Cost		Achievement upto 2010-11		Allocation / Target 2011-12	
					Original	Revised	Financial	Physical	Financial	Physical
1	2	3	4	5	6	7	8	9	10	11
68	Subbung MHS near Supsing village (3 x 1000 Kw)	PWRS/EC-CC-EST-14/7166-71 dated 30/03/1986	East Siang District	1996	3270.00	3950.00	1765.19	60%		
69	Rina MHS over Simen river (2 x 1000 Kw)	PWRS/HPD/W-1383/2006/2061 Dated 28/04/2009	East Siang District	2001	2947.17	3605.45	3070.45	100%		
SUB TOTAL OF EAST SIANG DISTRICT					6217.17	7555.45	4835.64			
70	Deopani MHS Ph-II (2 x 250 Kw)	PWRS/EC-CC/EST-26 dated 30/03/1996	Lower Dibang Valley District	1996	290.10	721.84	721.84	100%		
71	Birem Korang/Ibrom Korong Micro Hydel near Dambuk (2 x 50 Kw)	PWRS/HPD/W-1393/2006 dated 14/07/2006	Lower Dibang Valley District		123.49	123.49				
SUB TOTAL OF LOWER DIBANG VALLEY DISTRICT					413.59	845.33	721.84			
72	Mini Hydel (2 x 200 Kw) over Echi Ahfra near New Anaya under Arju Circle	PWRS/E-764/2001(Pt) dated 28/10/2002	Dibang Valley District	2002	484.79	518.40	518.40	100%		
73	Aug. of Awapani MHS (Erection of Turbine and other Civil Allied works)	PWRS/EC-CIVIL/EST-135/97-98/1024-26 dated 31/03/1998	Dibang Valley District	1998	516.16	634.22	619.22	100%		
74	Tah Ahfra Micro Hydel at Angolin Ph-II (1 x 50 Kw)	PWRS/HPD/W-1393/2006 dated 14/07/2006	Dibang Valley District	2006	49.63	49.63	49.63	100%		
75	Nee Nallah Micro Hydel Project (2 x 20 Kw)	PWRS/HPD/W-1393/2006 dated 14/07/2006	Dibang Valley District	2006	75.72	98.81	38.19	40%		
76	Chu Nallah Micro Hydel at Mipi (2 x 20 Kw)	PWRS/HPD/W-1393/2006 dated 14/07/2006	Dibang Valley District	2006	73.84	73.84	74.44	90%		
77	Echito Nallah Micro Hydel at Acheso (C.O. Hq.) (2 x 20 Kw)	PWRS/HPD/W-1393/2006 dated 14/07/2006	Dibang Valley District	2006	74.04	74.04	68.73	100%		
78	Rupa Pani Micro Hydel at Punli (2 x 20 Kw)	PWRS/HPD/W-1393/2006 dated 14/07/2006	Dibang Valley District	2006	74.65	88.39	70.71	100%		
79	Awapani MHS near Gepuline (2 x 250 Kw)	PWRS/HPD/W-1662/2008/5433-43 dated 07/08/2008	Dibang Valley District	2008	714.46	714.46	317.45	45%		
SUB TOTAL OF DIBANG VALLEY DISTRICT					2063.29	2251.79	1756.77			
80	Dus Nallah MHS at Dimwe near Tezu (2 x 250 Kw)	PWRS/W-764/2001/2235-39 dated 07/11/2001	Lohit District	2001	404.87	682.81	414.78			
SUB TOTAL OF LOHIT DISTRICT					404.87	682.81	414.78			
81	Yapak Nallah MHS at Walong in Lohit District (2 x 100 Kw)	PWRS/W-764/2001/2235-39 dated 07/11/2001	Anjaw District	2001	317.71	535.21	535.21	100%		
82	Mati Nallah MHS at Chingwinti (2 x 250 Kw)	PWRS/EC-CIVIL/EST-140/97-98/1304-12 dated 25/03/1998	Anjaw District	1998	598.56	736.19	715.69	100%		
83	Halaipani HEP (4 x 4000 Kw)	PWRS/EC-1/EST-58/96-97/339-44 dated 27/02/2002	Anjaw District	2002	6429.93	15707.81	11234.34	48%		
84	Langpani MHS at Gimliyang over Langpani river (2 x 200 Kw)	PWRS/EST-6/2003-04/55-61 dated 02/04/2004	Anjaw District	2004	543.91	752.58	566.42	70%		

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Sl. No.	Name of Works	Sanctioned No. & Date	Locations	Year of taking up	Estimated Cost		Achievement upto 2010-11		Allocation / Target 2011-12	
					Original	Revised	Financial	Physical	Financial	Physical
1	2	3	4	5	6	7	8	9	10	11
10	C/o Zonal Office Building cum SE's Office Building at Itanagar	PWRS/HPD/EST/04/2005-06/470-82 dated 06/03/2006	Papum Pare District	2006	168.12	168.12	184.06	100%		
11	C/o 11Kv/0.4 Kv, 100 KVA Sub-Station at Jal Vidyut Bhawan i/c providing of	PWRS/HPD/Est-91/2010-11/852-61 dated 23/02/2011	Papum Pare District	2011	14.98	15.00	15.00			
12	C/o Car Parking and landscaping, construction of security wall i/c entrance	PWRS/HPD/Est-94/2010-11/842-51 dated 23/02/2011	Papum Pare District	2011	11.73	11.73	11.78			
13	C/o Panelling, Tiles Flooring, Glass Fitted Aluminium Doors, Decoration etc of	PWRS/HPD/Est-95/2010-11/821-30 dated 23/02/2011	Papum Pare District	2011	9.62	9.62	9.67			
SUB TOTAL OF PAPUMPARE DISTRICT					204.45	204.47	220.51			
14	C/o SPT Resdl. Building T-III/2 Nos. for staff of Ziro Civil Division at Ziro	PWRS/EST-13/2003-04/410-16 dated 12/03/2004	Lower Subansiri District	2004	9.37	9.37	4.99	50%	4.38	50%
15	C/o SPT Resdl. Building T-II/2 Nos. for staff of Ziro Civil Division at Ziro	PWRS/EST-13/2003-04/403-09 dated 12/03/2004	Lower Subansiri District	2004	7.54	7.54	7.34	95%	0.20	5%
16	C/o SPT 5 Men Bachelor Barrack for WC staff of Ziro Civil Division at Ziro	PWRS/EST-13/2003-04/417-18 dated 12/03/2004	Lower Subansiri District	2004	11.14	11.85	11.85	100%		
SUB TOTAL OF LOWER SUBANSIRI DISTRICT					28.05	28.76	24.18		4.58	
17	C/o Resdl. Qtr. For staff under Deptt. Of Power at Pasighat (T-II/2 Nos.)	SPD/W-28/94-95/558 dated 14/05/1995	East Siang District	1995	3.54	8.02	8.02	100%		
SUB TOTAL OF EAST SIANG DISTRICT					3.54	8.02	8.02			
18	C/o 10 men Bachelor Barrack for Deptt. of Power staff at Along	PWRS/EC-CIVIL/EST-14/97-98/2041-49 dated 31/03/98	West Siang District	1998	21.24	21.24	9.94	45%	11.30	55%
19	Approach road to Along Civil Division complex Deptt. of Power (F/cutting,	PWRS/EC-CIVIL/EST-14/97-98 dated 31/03/98	West Siang District	1998	22.84	22.84	15.87	70%		
20	C/o 4 Men Bachelor Barrack at Yomcha	PWRS/EC-II/56/ESH/2002-03 dated 12/03/2003	West Siang District	2003	8.46	8.46	7.26	85%		
SUB TOTAL OF WEST SIANG DISTRICT					52.54	52.54	33.07		11.30	
21	C/o Residential Building for AE(C) at Yingkiong (SH:- T-II/2 Nos. & 6 Men	PWRS/EC-C-97-98/1126-1135 dated 28/03/98	Upper Siang District	1998	16.83	16.83	7.87	45%	8.96	55%
22	C/o 5 Men Bachelor Barrack at Jengging	PWRS/EC-C-EST-40/97-98/1098-11 dated 28/03/98	Upper Siang District	1998	9.45	12.81	12.81	100%		
23	C/o Circle Office Building at Jengging	PWRS/HPD/EST-05/2004-05/629-40 dated 31/03/2005	Upper Siang District	2005	70.51	73.43	73.43	95%	4.00	
24	5 Men Bachelor Barrack at Kopu	PWRS/HPD/EST-41/2009/1914-24 dated 31/03/2009	Upper Siang District		14.13	14.13			14.13	100%
SUB TOTAL OF UPPER SIANG DISTRICT					110.92	117.20	94.11		27.09	
25	C/o HT/SPT residential bldg. for staff of Anini Civil Division under DHPD. (SH:- T-	PWRS/EST-22/HPD/2009/1769-79 dated 24/03/2009	Dibang Valley District		64.70	64.70				
SUB TOTAL OF DIBANG VALLEY DISTRICT					64.70	64.70	0.00			

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Sl. No.	Name of Works	Sanctioned No. & Date	Locations	Year of taking up	Estimated Cost		Achievement upto 2010-11		Allocation / Target 2011-12	
					Original	Revised	Financial	Physical	Financial	Physical
1	2	3	4	5	6	7	8	9	10	11
8	Survey & Investigation of MHS over Pagu river near old Palin	PWRS/EC-I/E-16/95-96 dated 26/03/95	Lower Subansiri District	1996	4.51	4.51	3.12			
9	Survey & Investigation of MHS over SI river at Deed	PWRS/EC-I/E-18/95-96 dated 21/12/95	Lower Subansiri District	1995	4.20	4.20	3.80			
SUB TOTAL OF LOWER SUBANSIRI DISTRICT					19.70	20.70	18.53			
10	Survey & Investigation of MHS over Kidding river near Nyapin	PWRS/EC-CIVIL/EST-49/97-98 dated 30/03/98	Kurung Kumey District	1998	2.83	2.83	1.39			
11	Survey & Investigation for Karuk river near Pachang I.V. School under Parsi-	PWRS/EST-24/2008/4085-95 dated 28/03/2008	Kurung Kumey District	2008	4.90	4.90	1.00			
SUB TOTAL OF KURUNG KUMEY DISTRICT					7.73	7.73	2.39			
12	Survey & Investigation of Pinto Karo MHS near Aki Nirin	SPWD/W/AA&ES/92-93 dated 17/12/93	Upper Subansiri District	1993	1.36	1.36	0.63			
13	Survey & Investigation of Siki MHS at Bui	PWRS/EST-CC-53/95-96/6932-38 dated 27/03/96	Upper Subansiri District	1996	2.53	2.53	1.01			
SUB TOTAL OF UPPER SUBANSIRI DISTRICT					3.89	3.89	1.64			
14	Survey & Investigation of Hydrel Project over river Pisam near Wak village	PWRS/EST-CC-191/95-96/5098 dated 28/02/96	West Siang District	1996	3.42	3.42	0.49			
15	Survey & Investigation of Rimi Dam near Rikpu Ronya (Liram)	PWRS/CE-04/2000-01/1041-49 dated 30/03/2001	West Siang District	2001	20.16	20.16	0.57			
16	Survey & Investigation of Rimi MHP at Tirbin	PWRS/CE-05/2000-01/957-64 dated 30/03/2001	West Siang District	2001	10.36	10.36	0.42			
17	Survey & Investigation of Sibu river Dam project in Darak Circle	PWRS/CE-015/2000-01/974-81 dated 30/03/2001	West Siang District	2001	10.36	10.36	0.60			
18	Survey & Investigation of river Sarak Korong & Siri Korong under Mechuka	SPWD/W/AA&ES/91-92/2179 dated 23/03/92	West Siang District	1992	3.91	3.91	0.43			
19	Survey & Investigation of MHS at Sie river near Tirbin	PWRS/CE-05/2000-01/30/03/2001 dated 30/03/2001	West Siang District	2001	10.36	10.36	0.02			
20	Survey & Investigation of Hydrel Project over river Soru Sokong near Yorku village	PWRS/EST-CC-47/95-96/6750-55 dated 13/03/96	West Siang District	1996	4.99	4.99	0.29			
21	Survey & Investigation of MHS at Himi river near Ngomdir	PWRS/CE-08/2000-01/1025-32 dated 30/03/2001	West Siang District	2001	4.13	4.13	0.38			
22	Survey & Investigation of Selegomang at Lingdug Noti village at Mechuka	PWRS/CE-07/2000-01/785-93 dated 28/03/2001	West Siang District	2001	4.47	4.47	0.14			
23	Survey & Investigation of Sirip MHS at Jamoh	PWRS/CE-01/2000-01/734-42 dated 27/03/2001	West Siang District	2001	9.78	9.78	0.39			
24	Survey & Investigation of Hirik river at Darak	PWRS/CE-011/2000-01/745-63 dated 28/03/2001	West Siang District	2001	5.40	5.40	0.37			
25	Survey & Investigation of Sibu river under Siyom Circle	PWRS/CE-013/2000-01/678-86 dated 26/03/2001	West Siang District	2001	4.33	4.33	0.09			
26	Survey & Investigation of Pari Rimi river at Yoncha	PWRS/CE-012/2000-01/776-84 dated 08/03/2001	West Siang District	2001	5.93	5.93	0.53			

[illegible]

Sl. No.	Name of Works	Sanctioned No. & Date	Locations	Year of taking up	Estimated Cost		Achievement upto 2010-11		Allocation / Target 2011-12	
					Original	Revised	Financial	Physical	Financial	Physical
1	2	3	4	5	6	7	8	9	10	11
1	R&M of Kitpi MHS Ph-I (3 x 500 Kw)	PWRS/W-287/95-96/805-13 dated 29/03/2001	Tawang District	2006	402.10	473.47	473.47	100%		
SUB TOTAL OF TAWANG DISTRICT					402.10	473.47	473.47			
2	R&M of Rupa MHS (2 x 100 Kw)	PWRS/HPD/EST-10/2008 dated 17/03/2008	West Kameng District		10.65	10.65	4.81	45%		
SUB TOTAL OF WEST KAMENG DISTRICT					10.65	10.65	4.81			
3	R&M of Along MHS (4 x 100 Kw)	PWRS/W-900/2002/1900-06 dated 07/11/2002	West Siang District	2006	160.00	206.75	205.02			
SUB TOTAL OF WEST SIANG DISTRICT					160.00	206.75	205.02			
4	R&M of Mai MHS Ph-I (4 x 500 Kw)	PWRS/W-900/2002/1900-06 dated 07/11/2002	Lower Subansiri District		435.19	470.00			30.00	
5	R&M of Tago MHS (3 x 1500 Kw)	PWRS/W-900/2002/1900-06 dated 07/11/2002	Lower Subansiri District		496.00	540.00	55.89	10%	35.00	
6	R&M of Mai Ph-II (2 x 500 Kw)	PWRS/W-900/2002/1900-06 dated 07/11/2002	Lower Subansiri District		356.75	392.00			30.00	
SUB TOTAL OF LOWER SUBANSIRI DISTRICT					1287.94	1402.00	55.89		95.00	
7	R&M of Deopani MHS Ph-I (3 x 250 Kw)	PWRS/W-287/95-96/805-13 dated 29/03/2001	Lower Dibang Valley District	2001	140.00	322.03	322.03	100%		
8	R&M of Abhapani MHS (450 Kw)	PWRS/W-287/95-96/805-13 dated 29/03/2001	Lower Dibang Valley District	2001	120.00	120.00				
SUB TOTAL OF LOWER DIBANG VALLEY DISTRICT					260.00	442.03	322.03			
9	R&M of Awapani MHS Ph-I (150 Kw)	PWRS/W-287/95-96/805-13 dated 29/03/2001	Dibang Valley District	2001	71.00	146.25	138.66	100%		
SUB TOTAL OF DIBANG VALLEY DISTRICT					71.00	146.25	138.66			
10	R&M of Charju MHS (3 x 200 Kw)	PWRS/HPD/EST-08/2006 dated 27/03/2007	Tirap District		72.82	72.82	14.50			
SUB TOTAL OF TIRAP DISTRICT DISTRICT					72.82	72.82	14.50			
TOTAL OF HYDEL IMPROVEMENT					2264.51	2753.97	1214.38		95.00	
GRAND TOTAL					95080.32	137241.03	82373.92		274.61	

Annexure 1A
DETAILS OF STATE SHARE FOR CSS

Sl. No.	Name of Works	Sanctioned No. & Date	Locations	Year of taking up	Estimated Cost		Achievement upto 2010-11		(Rs. in Lakhs)	
					Original	Revised	Financial	Physical	Allocation / Target 2011-12	
									Financial	Physical
1	2	3	4		5	6	7	8	9	10
SUB HEAD :- HYDEL GENERATION										
1	Jigaon MHP (1 x 50 Kw)	PWRS/HPD/W-1361/2005/6290-95 dated 16/12/2005	West Kameng District	2005	71.85	71.85	22.75		20.81	
2	Taksing MHS over Esmi Nallah at Taksing (2 x 50 Kw)	PWRS/HPD/EST-7/2009-10/2888-93 dated 30/06/2009	Upper Subansiri District	2009	395.00	395.00			50.00	
3	Sippi SHP (2 x 2000 Kw)	SPWD/W/AA&ES/90-91 dated 31/03/1991	Upper Subansiri District	1991	3832.92	4060.35	3732.92		200.00	
4	Rina MHS over Simen river (2 x 1000 Kw)	PWRS/HPD/W-1383/2006/2061 Dated 28/04/2009	East Siang District	2001	2947.17	3605.45	3070.45		200.00	
5	Kambang MHS (3 x 2000 Kw)	SPWD/W/AA&ES/92-93 dated 24/03/1993	West Siang District	1993	3832.92	4323.43	3908.18		200.00	
SUB TOTAL OF HYDEL GENERATION					11079.86	12456.08	10734.30		670.81	
SUB HEAD :- HYDEL IMPROVEMENT										
1	R&M of Along MHS (4 x 100 Kw)	PWRS/W-900/2002/1900-06 dated 07/11/2002	West Siang District		160.00	290.00			60.00	
2	R&M of Mai MHS Ph-I (4 x 500 Kw)	PWRS/W-900/2002/1900-06 dated 07/11/2002	Lower Subansiri District		285.02	435.19			-	
3	R&M of Mai Ph-II (2 x 500 Kw)	PWRS/W-900/2002/1900-06 dated 07/11/2002	Lower Subansiri District		311.00	356.75			-	
4	R&M of Dulom MHP (4 x 100 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	Upper Subansiri		183.97	183.97			26.70	
5	R&M of Tago MHP (3 x 1500 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	Lower Subansiri District		243.75	496.00	55.89		100.00	
6	R&M of Silak Koro MHP (1 X 30 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	Upper Subansiri		11.92	11.92			-	
7	R&M of Dirang MHP (4 x 500 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	West Kameng District		302.53	527.78			50.00	
8	R&M of Rupa MHP (2 x 100 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	West Kameng District		139.62	139.62			26.59	
9	R&M of Rahung MHP (3 x 250 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	West Kameng District		173.14	173.14			26.59	
10	R&M of Silli Geku (2 x 250 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	Upper Siang District		274.28	274.28			26.59	
11	R&M of Yingkiong Ph-I & Ph-II (3 x 50 Kw) & (2 x 100 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	Upper Siang District		202.14	202.14			26.59	
12	R&M of Chini Ahfra MHP (1 x 250 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	Dibang Valley District		201.48	201.48			26.59	
13	R&M of Abhapani MHP (1 x 250 Kw + 2 x 100 kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	Lower Dibang Valley District		404.91	404.91			26.59	
14	R&M of Pasighat MHP (2 x 100 Kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	East Siang District		167.44	167.44			26.59	
15	R&M of Dali MHP (4 x 100 kw)	PWRS/HPD/W-26/2010/328-40 dated 22/03/2010	West Siang District		237.23	237.23			26.59	
16	R&M of Mechuka MHP (2 x 50 Kw + 1 x 250 Kw)	PWRS/HPD/W-1662/2008/870-81 dated 21/04/2010	West Siang District		216.03	216.03			26.59	
17	R&M of Doorah Nallah MHS (4 x 100 Kw)	PWRS/HPD/W-1662/2008/870-81 dated 21/04/2010	Lohit District		291.04	291.04			26.59	
18	R&M of Tafragram MHS (1 x 250 Kw)	PWRS/HPD/W-1662/2008/870-81 dated 21/04/2010	Lohit District		196.45	196.45			26.59	
SUB TOTAL OF HYDEL IMPROVEMENT					4001.95	4805.37	55.89		529.19	
TOTAL OF STATE SHARE FOR CSS [FROM SPECIAL ASSISTANCE (SCA)]					15081.81	17261.45	10790.19		1200.00	

Annexure 1B

PROPOSAL FOR NEW SCHEMES						
Sl. No	Name of Works	Locations	Estimated Cost	Allocation	Target for 2011-12	[Rs. in Lakhs]
						Remarks / Target date of completion
1	2	3	4	5	6	7
	SUB HEAD : HYDEL GENERATION					
1	Sha Koro MHS (1 x 50 Kw)	Upper Subansiri District	75.00	50.00	60%	
	SUB TOTAL OF UPPER SUBANSIRI DISTRICT		75.00	50.00		
2	Sippa MHS at Kagi Village (2 x 50 Kw)	West Siang District	350.00	175.00	50%	
3	Siru MHS at Tirbin (2 x 25 Kw)	West Siang District	200.00	120.00	60%	
4	Bah MHS at Taramoni (2 x 50 Kw)	West Siang District	200.00	120.00	60%	
	SUB TOTAL OF WEST SIANG DISTRICT		750.00	415.00		
5	Temik MHS (2 x 100 Kw)	Upper Siang District	537.39	55.00		
	SUB TOTAL OF UPPER SIANG DISTRICT		537.39	55.00		
	TOTAL OF HYDEL GENERATION		1362.39	520.00		
	SUB HEAD : BUILDING					
1	C/o Security fencing and iron gate for Bomdila Civil Division and Circle Office	West Kameng District	45.00	14.00	30%	
	SUB TOTAL OF WEST KAMENG DISTRICT		45.00	14.00		
2	C/o Security compound wall around the Koche hydel station at Seppa	East Kameng District	5.05	5.05	100%	
3	C/o office building for Seppa Electro-Mechanica Sub Division at Seppa	East Kameng District	20.00	2.00	10%	
4	C/o Resdl. Building for Seppa Electro-Mechanical Sub Division (SH: T-III/ 1 No, 5 men B/B)	East Kameng District	30.00	3.00	10%	
	SUB TOTAL OF EAST KAMENG DISTRICT		55.05	10.05		

PROPOSAL FOR NEW SCHEMES						
Sl. No	Name of Works	Locations	Estimated Cost	Allocation	Target for 2011-12	Remarks / Target date of completion
1	2	3	4	5	6	7
5	Land development for creation of infrastructure for Officers of CE's office at Naharlagun	Papumpare District	20.00	19.00	95%	
SUB TOTAL OF PAPUMPARE DISTRICT			20.00	19.00		
6	C/o office building for Daporijo Electro-Mechanical Sub Division at Daporijo	Upper Subansiri District	20.00	2.00	10%	
7	C/o Resdl. Building for Electro-Mechanical Sub Division at Daporijo (SH: T-III/ 1 No, 5 men B/B)	Upper Subansiri District	30.00	3.00	10%	
SUB TOTAL OF UPPER SUBANSIRI DISTRICT			50.00	5.00		
8	C/o office building for Geku Electro-Mechanical Sub Division at Geku	Upper Siang District	20.00	2.00	10%	
9	C/o Resdl. Building for Geku Electro-Mechanical Sub Division at Geku (SH: T-III/ 1 No, 5 men B/B)	Upper Siang District	30.00	3.00	10%	
SUB TOTAL OF UPPER SIANG DISTRICT			50.00	5.00		
10	C/o Civil Sub-Division office with Boundary Wall at Tirbin	West Siang District	30.00	20.00	60%	
11	C/o Type- III/1 No. for AE at Tirbin	West Siang District	15.00	10.00	60%	
12	C/o Type-II/1 No. for JE at Basar	West Siang District	10.00	10.00	100%	
13	C/o 5 Men B/Barrack for staff at Tirbin	West Siang District	20.00	15.00	70%	
14	C/o Office building for Western Electro-Mechanical Circle	West Siang District	75.00	7.50	10%	
15	C/o Resdl. Bldg for Western Electro-Mechanical Circle. (SH: T-V/1 No, T-IV/1 No, T-III/2 Nos, 5 men B/B)	West Siang District	85.00	8.50	10%	
16	C/o office building for Tirbin Electro-Mechanical Sub Division at Tirbin	West Siang District	20.00	2.00	10%	
17	C/o Resdl. Building for Tirbin Electro-Mechanical Sub Division (SH: T-III/ 1 No, 5 men B/B)	West Siang District	30.00	3.00	10%	
SUB TOTAL OF WEST SIANG DISTRICT			285.00	76.00		

PROPOSAL FOR NEW SCHEMES						
Sl. No	Name of Works	Locations	Estimated Cost	Allocation	Target for 2011-12	Remarks / Target date of completion
1	2	3	4	5	6	7
18	C/o office building for Electro-Mechanical Division at Pasighat	East Siang District	45.00	5.34	10%	
19	C/o Resdl building for Electro-Mechanical Division at Pasighat. (SH: T-IV/1 No, T-III/2 Nos, 5 men B/B)	East Siang District	55.00	6.00	10%	
SUB TOTAL OF EAST SIANG DISTRICT			100.00	11.34		
20	C/o Boundary wall for EE(EM) office i/c renovation of existing office building at Tezu	Lohit District	25.00	20.00	80%	
21	C/o Type-III/1 No. & 5 men B/Barrack for staff of Tezu EM Division	Lohit District	30.00	20.00	60%	
22	C/o Office building for Eastern Electro-Mechanical Circle	Lohit District	75.00	7.50	10%	
23	C/o Resdl. Bldg for Eastern Electro-Mechanical Circle. (SH: T-V/1 No, T-IV/1 No, T-III/2 Nos, 5 men B/B)	Lohit District	85.00	8.50	10%	
SUB TOTAL OF LOHIT DISTRICT			215.00	56.00		
ANJAW DISTRICT						
24	C/o Residential building for Civil Sub Division at Hawai (SH: T-III/1 No, T-II/1 No & 5 Men B/Barrack)	Anjaw District	40.00	32.00	80%	
25	C/o Residential building for Electro Mechanical Sub Division at Hawai (SH: T-III/1 No, T-II/1 No & 5 Men B/Barrack)	Anjaw District	40.00	33.00	80%	
26	C/o Residential building for Electro Mechanical Division at Hawai (SH: T-IV/1 No., T-III/1 No, & 5 Men B/Barrack)	Anjaw District	50.00	40.00	80%	
SUB TOTAL OF ANJAW DISTRICT			130.00	105.00		
TOTAL OF BUILDING			950.05	301.39		
SUB HEAD : SURVEY & INVESTIGATION						
1	Survey & Investigation of Passa SHP over river Passa after river confluence of Sama Nallah & Passa river	East Kameng District	10.00	1.00	10%	
SUB TOTAL OF EAST KAMENG DISTRICT			10.00	1.00		
WEST SIANG DISTRICT						
2	Survey & Investigation of Siki MHS at Siru village near Basar	West Siang District	10.00	1.00	10%	
SUB TOTAL OF WEST KAMENG DISTRICT			10.00	1.00		
TOTAL OF SURVEY & INVESTIGATION			20.00	2.00		

PROPOSAL FOR NEW SCHEMES						
Sl. No	Name of Works	Locations	Estimated Cost	Allocation	Target for 2011-12	Remarks / Target date of completion
1	2	3	4	5	6	7
	SUB HEAD : HYDEL IMPROVEMENT					
1	Strengthening & protection of vulnerable portion of power channel damages by flood in respect of Pakoti MHS	East Kameng District	15.00	12.50	80%	
2	Strengthening & protection of vulnerable portion of power channel damages by flood in respect of Kade Nallah MHS	East Kameng District	15.00	12.50	80%	
	SUB TOTAL OF EAST KAMENG DISTRICT		30.00	25.00		
3	Strengthening of Approach road to weir and intake i/c side drain & culvert of Sippi SHP.	Upper Subansiri District	50.00	50.00	100%	
	SUB TOTAL OF UPPER SUBANSIRI DISTRICT		50.00	50.00		
4	Providing barbed wire fencing all along the Power Channel & strengthening works at Spillway and other protection works of Liromoba MHS	West Siang District	45.00	40.00	85%	
5	C/o Escape channel at Desilting tank of Kambang SHP i/c strengthening of civil structures at vulnerable point	West Siang District	45.00	40.00	85%	
	SUB TOTAL OF WEST SIANG DISTRICT		90.00	80.00		
6	Replacement of ELC complete with its accessories and making arrangement to synchronise Awapani Ph-I with Awapani Ph-II	Dibang Valley District	15.00	12.00	80%	
	SUB TOTAL OF DIBANG VALLEY DISTRICT		15.00	12.00		
7	Special repair & overhauling of EM equipments of Yapak Nallah MHS	Anjaw District	20.00	8.00	40%	
8	Special repair & overhauling of EM equipments of Mati Nallah MHS	Anjaw District	50.00	12.00	25%	
9	Providing additional 11 kV vaccum Circuit Breaker i/c extnsion of Switchyard at Mati Nallah, Yapak Nallah & Teeapani MHS	Anjaw District	64.47	15.00	20%	
	SUB TOTAL OF ANJAW DISTRICT		134.47	35.00		
	TOTAL OF HYDEL IMPROVEMENT		319.47	202.00		
	GRAND TOTAL OF NEW SCHEMES		2651.91	1025.39		

Annexure 1C

PROPOSAL FOR LOAN LINKED SCHEMES										
(RIDF & REC)										
Sl. No.	Name of Schemes	S/Order No. & Date	Date of commencement	Estimated Cost		Achievement upto 2010-		Target for 2011-12		Remarks
				Original	Revised	Physical	Financial	Physical	Financial	
1	2	3	4	5	6	7	8	9	10	11
	NABARD / RIDF									
1	Pacha MHS at Seppa (2 x 1500 Kw)	No. NB.SPD/413/RIDF-VII(Arunachal Pradesh)/46PSC/2000-01 dated 28/06/2001	2001 - 02	2988.79	3992.80	100%	3994.66			Expdr.-: State- 1757.22 & RIDF- 2237.44
2	Liromoba MHS at Liromoba (2 x 1000 Kw)	No. NB.SPD/413/RIDF-VII(Arunachal Pradesh)/46PSC/2000-01 dated 28/07/2001	2001 - 02	2792.18	3073.73	100%	3076.73			Expdr.-: State- 2033.99 & RIDF- 1042.74
3	Angong Nallah MHS near Janbo (3 x 1500 Kw)	No. NB.SPD/1193(A)/RIDF-XI(Arunachal Pradesh)/80/PSC/2005-06 dated 14/10/2005	2005-06	3470.00	4900.00	50%	4248.95			Expdr.-: State- 2809.97 & RIDF- 1438.98
4	Subbung MHS near Supsing village (3 x 1000 Kw)	No. NB.SPD/2013(A)/RIDF-XI (Arunachal Pradesh)/82PSC/2005-06 dated 17/02/2006	2005-06	3270.00	3950.00	60%	1765.19			Expdr.-: State- 165.99 & RIDF- 1599.20
5	Teepani MHS (2 x 200 Kw)	No. NB.SPD/2456(A)/RIDF-XII(Arunachal Pradesh)87PSC/2006-07 dated 07/02/2007	2006-07	575.30	844.17	100%	830.17			Expdr.-: State- 439.70 & RIDF- 390.47
6	Pagu MHS under Palin Circle (2 x 1000 Kw)	No. NB.SPD/1594/RIDF-XIII(Arunachal Pradesh)95PSC-2007-08 dated 04/02/2008	2007-08	2274.00	2274.00	48%	598.42			Expdr.-: RIDF- 598.42
7	Singen at Adi Pasi Mariyang (2 x 250 Kw)	NEW PROPOSAL	-	6000.00	6000.00	-	-			
8	Echi MHS at Echi village (2 x 100 Kw)	NEW PROPOSAL	-	800.00	800.00	-	-			
9	Jilak Koro MHS (2 x 100 Kw)	NEW PROPOSAL	-	700.00	700.00	-	-			
10	Passa MHP	NEW PROPOSAL	-	7283.72	7283.72	-	-			
TOTAL OF RIDF / NABARD				30153.99	33818.42		14514.12			
	REC									
1	Halaipani HEP(4 x 3000 Kw)	RECG/SCH/MHS/ARP/17/2002-03/919 dated 25/03/2003	2003-04	6429.93	15707.81	48%	11234.34			Expdr.-: State- 8867.76 & REC- 2366.58
2	Rina MHS over Simen river (2 x 1000 Kw)	RECG/SCH/MHS/ARP/17/2002-03/917 dated 25/03/2003	2003-04	2947.17	3605.45	100%	3070.45			Expdr.-: State- 2097.55 & REC- 972.90
3	Kitpi MHS over river Kitpi Ph-II (2 x 1500 Kw)	RECG/SCH/MHS/ARP/1/2005-06/512 dated 15/11/2006	2005-06	2959.04	3447.32	100%	3533.02			Expdr.-: State- 2360.74 & REC- 1172.28
4	Tissue Ph-II Mini Hydel Project 500 Kw	NEW PROPOSAL	-	617.00	617.00	-	-			
TOTAL OF REC				12953.14	23377.58		17837.81			