



**ARUNACHAL PRADESH STATE ELECTRICITY REGULATORY
COMMISSION (APSERC)**

Determination of Aggregate Revenue Requirement

&

Tariff Order for FY 2025-26

for

Deptt. of Hydro Power Development

Government of Arunachal Pradesh

Issued on 17/07/2025

Arunachal Pradesh State Electricity Regulatory Commission

अरुणाचल प्रदेश राज्य विद्युत नियामक आयोग

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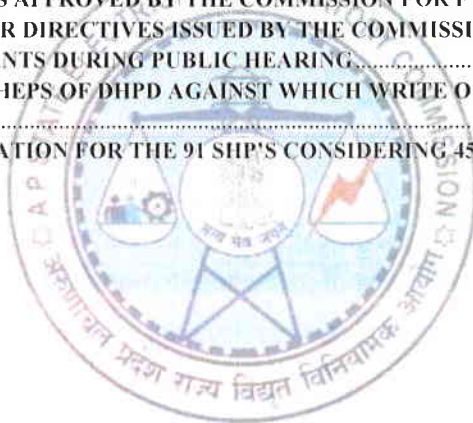
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Abbreviations

Abbreviation	Description
A&G	Administration & General
ACT	Electricity Act, 2003
APSERC	Arunachal Pradesh State Electricity Regulatory Commission
ARR	Aggregate Revenue Requirement
APTEL	Appellate Tribunal For Electricity
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
Cr./ Crs	Crore/ Crores
D/E	Debt Equity
DHPD	Deptt. of Hydro Power Development
DOP, AP	Department of Power, Govt. of Arunachal Pradesh
FY	Financial Year
GFA	Gross Fixed Assets
GoAP	Government of Arunachal Pradesh
kWh	Kilo Watt Hour
MU	Million Units
MW	Mega Watt
O&M	Operation & Maintenance
ROE	Return on Equity
Rs.	Rupees
SBI	State Bank of India
SBI-MCLR	State Bank of India- Marginal Cost Lending Rate
SERC	State Electricity Regulatory Commission
YoY	Year on Year


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Order on Petition for Approval of ARR & Tariff of DHPD for FY 2025-26

Before

The Arunachal Pradesh State Electricity Regulatory Commission (APSERC)

Itanagar, Arunachal Pradesh

Petition No. TP – 07 of 2025

In the matter of:

Petition for Determination of Aggregate Revenue Requirement (ARR) and Tariff for Generation by Department of Hydro Power Development, Arunachal Pradesh for the FY 2025-26

In the matter:

**Department of Hydro Power Development,
Govt. of Arunachal Pradesh. Itanagar -----Petitioner**

PRESENT:

Hon'ble R.K Joshi

Hon'ble Nich Rika

Chairperson, APSERC

Member (Law), APSERC

ORDER

(Passed on 17.07.2025)

The Commission in exercise of the powers vested in it under section 62 (1) (a) read with Section 62 (3) and Section 64 (3) (a) of the Electricity Act, 2003 and APSERC(Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2024 and its amendments and other enabling provisions in this behalf, hereby issues this order, determining the Aggregate Revenue Requirement (ARR) for FY 2025-26 and generation tariff for the FY 2025-26 for supply of electricity by the Department of Hydro Power Development, Govt. of Arunachal Pradesh (DHPD) to the Department of Power for distribution in the State of Arunachal Pradesh. The relevant Regulation of the commission requires that the generating company shall file tariff before the Commission for fixation of tariff and Aggregate Revenue Requirement (ARR), complete in all respects, along with requisite fee as prescribed in the Commission's Fee, Regulations, (1st amendments) 2017 on or before 30th November of the preceding year.


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Order on Petition for Approval of ARR & Tariff of DHPD for FY 2025-26

Accordingly, the tariff petition for the FY 2025-26 should have been filed by the DHPD (the deemed generating company) on or before 30th November, 2024. However, DHPD filed the said petition before the Commission on vide No HPD-WZ-11029/1/2021/24-25/294-95 dated 07.05.2025.

This order consists of seven chapters, which include detailed analysis of the Aggregate Revenue Requirement (ARR) for FY 2025-26; approved Generation Tariff for the FY 2025-26. The Commission hereby directs the DHPD to take all necessary steps for implementation of this order from the date specified below.

The directives contained in Chapter-7 shall be strictly adhered to and compliance thereof, as desired by the Commission must be placed before the commission within the stipulated time.

This order shall be effective from **1st April 2025** and shall remain in force till the next tariff order is issued by the Commission.

Date: 17.07.2025

Place: Itanagar



Sd/-

Shri Nich Rika

Member(Law)

Sd/-

Shri R.K. Joshi

(Chairperson)


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Chapter 1: INTRODUCTION

Arunachal Pradesh State Electricity Regulatory Commission

1.1 In exercise of the powers conferred by the Electricity Act, 2003, (hereinafter referred to as Act) the Government of Arunachal Pradesh constituted the Electricity Regulatory Commission for the State of Arunachal Pradesh to be known as “Arunachal Pradesh State Electricity Regulatory Commission” (APSERC) as notified on 07.05.2010 (hereinafter referred to as Commission). The Arunachal Pradesh State Electricity Regulatory Commission has been functioning with effect from 02.03.2011 with the objective and purpose for which the Commission has been established i.e., to discharge its functions as per Section 86 of the Act. The Commission has been functioning as a two-member Commission and continues to discharge the functions as envisaged in the Act.

1.2 In accordance with Section 86 (1) of the Act, the APSERC discharges the following functions:

- a) determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the State:

Provided that where open access has been permitted to a category of consumers under section 42, the State Commission shall determine only the wheeling charges and surcharge thereon, if any, for the said category of consumers;

- b) regulate electricity purchase and procurement process of distribution licensees including the price at which electricity shall be procured from the generating companies or licensees or from other sources through agreements for purchase of power for distribution and supply within the State;
- c) facilitate intra-State transmission and wheeling of electricity;
- d) issue licenses to persons seeking to act as transmission licensees, distribution licensees and electricity traders with respect to their operations within the State;
- e) promote cogeneration and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specify, for purchase of electricity from such sources, a percentage of the total consumption of electricity in the area of a distribution licensee;
- f) adjudicate upon the disputes between the licensees and generating companies; and


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- to refer any dispute for arbitration;
- g) levy fee for the purposes of this Act;
 - h) specify State Grid Code consistent with the Grid Code specified under Clause (h) of sub-section (1) of Section 79;
 - i) specify or enforce standards with respect to quality, continuity and reliability of service by licensees;
 - j) fix the trading margin in the intra-state trading of electricity, if considered, necessary;
 - k) discharge such other functions as may be assigned to it under this Act.

1.3 The Commission has to also advise the State Government as per sub section 2 of Section 86 of the Act, on all or any of the following matters, namely:

- a) promotion of competition, efficiency and economy in activities of the electricity industry;
- b) promotion of investment in electricity industry;
- c) reorganization and restructuring of electricity industry in the State;
- d) matters concerning generation, transmission, distribution and trading of electricity or any other matter referred to the State Commission by that Government.

1.4 The State Commission ensures transparency while exercising its powers and discharging its functions.

1.5 In discharge of its functions, the State Commission is also guided by the Tariff Policy notified by the Government of India under Section 3 of the Act. The objectives of the Tariff Policy are to:

- a) ensure availability of electricity to consumers at reasonable and competitive rates;
- b) ensure financial viability of the sector and attract investments;
- c) promote transparency, consistency and predictability in regulatory approaches across jurisdictions and minimize perceptions of regulatory risks;
- d) promote competition, efficiency in operations and improvement in quality of supply.


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Arunachal Pradesh - Geographical Reality

1.6 The total area of the State of Arunachal Pradesh is 83573 sq.kms. The State is having a population of around 13.82 lakhs (2011 Census). The State of Arunachal Pradesh is bounded by Assam in South, Bhutan in West, China in North, and Nagaland and Myanmar in East. It's Capital, Itanagar is about 380 kms. from Guwahati.

Arunachal Pradesh Department of Hydro Power Development

1.7 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 village's electrification and all household electrification.

1.8 The Department in its petition has stated that at present it has to its credit 81.26 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.

1.9 The Department has a dedicated work force of 2304 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


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State into reality that Arunachal Pradesh shall be the “FUTURE POWER HOUSE OF THE COUNTRY”.

Petitioners Prayer

1.10 The Petitioner in the Filing of Petition for approval of Annual Revenue Requirement (ARR) & Tariff Petition for FY 2025-26 has prayed for the following:

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




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Chapter 2: PROCEDURAL HISTORY

Background

- 2.1 The Petitioner had filed a petition for approval of ARR and Tariff for FY 2025-26 on 7th May 2025. The petition was admitted by the Commission during admission hearing on 15.05.2025.
- 2.2 The Commission during the admission hearing observed that certain directives issued by the Commission in its earlier order dated 31.12.2024 for FY 2024-25 have not been complied fully to which the Petitioner submitted that necessary steps have been taken to fulfil the directives issued by the Commission.
- 2.3 The Commission however directed the Petitioner to submit detailed compliance report on or before the filing of next tariff petition for FY 2026-27 by 30th November 2025 and further directed the Petitioner to publish the petition in abridged form in two daily newspapers seeking objections/comments/suggestions from the stakeholders on the petition.

Information Gaps in the Petition

- 2.4 In exercise of Tariff determination process, deficiencies/information gaps were found in the Petition submitted by the Petitioner and the same was communicated to the Petitioner vide APERC/RA-8/II/2025-26/90 dated 30.05.2025.
- 2.5 In response, the Petitioner furnished additional data/information to the Commission vide letter No HPD-WZ-11029/1/2021/25-26/573-74 dated 12.06.2025.
- 2.6 The Commission has scrutinized the Petition and the additional data/information furnished by the Petitioner with respect to its discrepancies identified and has considered the same while passing this Order.
- 2.7 In order to provide adequate opportunities to all stakeholders and general public, as mandated under Section 64 (3) of the Electricity Act 2003 and in relevant provisions of Regulations framed by the Commission and in order to ensure transparency in the process of tariff determination, the Commission decided to hold Public Hearing on 10th July 2025.


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Inviting Public Comments/Suggestions

- 2.8 The Commission after admission of the Petition had directed the petitioner to publish a public notice inviting comments/suggestions from public and to make available copies of the Petition to the members of general public on request.
- 2.9 Accordingly, Public Notice was published by the Petitioner in the newspapers and a period of twenty-one (21) days was given for submitting the comments/suggestions by the general public:

Table 1 List of Newspapers and dates of publication of public notice by Petitioner

Newspaper	Language	Date of Publication
Arunachal Front	English	03-06-2025
The Dawnlit Post	English	03-06-2025

- 2.10 The Commission has also uploaded the petition on its website www.apserc.nic.in. Further in order to provide adequate opportunities to all stakeholders and general public, as mandated under Section 64 (3) of the Electricity Act 2003 and in relevant provisions of Regulations framed by the Commission, the Commission also held a public hearing on 10th July 2025. The details of the newspaper wherein the notice of public hearing was published is given in the table below:

Table 2 List of Newspaper and date of publication of public notice by the Commission

Newspaper	Language	Date of Publication
Arunachal Front	English	25.06.25
Arunachal Observer	English	25.06.25

Submission of Comments/Suggestions and Conduct of Public Hearing

- 2.11 No comments or suggestions on the Petition were received following the publication of the public notice. Furthermore, no comments or objections were raised during the public hearing. The details pertaining to the public hearing is being discussed in Chapter 4 of this Order.



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Chapter 3: BRIEF FACTS ABOUT THE PETITION

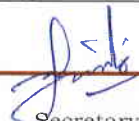
3.1 The following chapter summarizes the Petition for approval of Aggregate Revenue Requirement and Tariff as submitted by the Petitioner for FY 2025-26 for Commission's approval.

Installed Capacity

3.2 The Petitioner has submitted that it has a total installed capacity of 58.64MW and a firm capacity of 54.59MW corresponding to 91 power stations that were commissioned before the year 2017. The details of the installed capacity of those corresponding hydroelectric power stations of the Petitioner along with actual generation for the year FY 2023-24 & FY2024-25 is given in the table below:

Table 3 Details of HEP along with actual generation for FY 24 & FY 25 as submitted by the Petitioner

Sl. No	Name of the Station	Units	Installed Capacity (kW)	Firm Capacity (kW)	COD (FY)	Actual Net Generation (kWh)	Actual Net Generation (kWh)	
Western Zone(WZ)								
Tawang District							FY 24	FY25
1	Chellengkang Ph-I	1 x 30	30	30	2004-05	31380.00	35726.00	
2	Chellengkang Ph-II	1 x 30	30	30	2008-09	19284.00	3941.00	
3	Shakti Nallah	2 x 50	100	50	2008-09	69904.00	64535.00	
4	Thimbu	2 x 50	100	100	2009-10	86694.00	78257.00	
5	Khet	2 x 50	100	100	2009-10	146092.00	155826.00	
6	Tsechu Nallah	2 x 50	100	100	2010-11	75850.00	69061.00	
7	Mago MHS	2 x 50	100	100	2014-15	60217.00	47837.00	
8	Nuranang	3 x 2000	6000	6000	1996-97	7301110	7780239.00	
9	Kitpi Ph-I	3 x 500	1500	1500	1977-78	0.00	0.00	
10	Kitpi MHS Ph-II	2 x 1500	3000	3000	2008-09	5862952.00	4906474.00	
11	T.Gompa	1 x 50	50	50	2001-02	0.00	17485.00	
12	Bongleng	2 x 50	100	100	2009-10	33087.00	1568.00	
13	Bramdhongchung Ph-II	2 x 50	100	100	2010-11	0.00	0.00	
West Kameng District								
14	Rahung	3 x 250	750	500	1972 - 73	561824	765624.00	
15	Dirang	4 x 500	2000	1500	1977 - 78	871743	1871530.00	
16	Saktangrong MHS	3 x 100	300	300	2011-12	0	0.00	
17	Zhongdongrong	2 x 500	1000	1000	2016-17	34750	0.00	
18	Sessa	3 x 500	1500	1500	1992-93	242643	897404.00	
19	Rupa	2 x 100	200	100	1997 - 98	95370	30760.00	
20	Dokumpani	1 x 30	30	30	2000-01	34037	8773.00	
21	Domkhrong	2 x 500	1000	1000	2008-09/2019-20	2343567	1778700.00	
22	Ankaling	1 x 30	30	30	2009-10	23165	0.00	


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23	Dikshi	2 x 30	60	60	2010-11/2019-20	0	26713.00
24	Khadiyabey	2 x 100	200	200	2011-12	0	0.00
25	Jigaon	2 x 50	100	100	2016-17	152782	24502.00
Pakke Kessang District							
26	Pakke Kessang	1 x 30	30	30	2001-02	0	0
East Kameng District							
27	Pacha MHS	2 x 1500	3000	3000	2008-09	8076061	6940438.00
28	Pakoti	2 x 50	100	100	2010-11	287256	149276.00
29	Patta Nallah	2 x 50	100	100	2010-11	324329	219120.00
30	Watte Mame	1 x 50	50	50	2010-11	239836	149716.00
31	Kade Nallah	1 x 50	50	50	2010-11	0	0.00
Kurung Kumey District							
32	Koye	1 x 50	50	50	2009-10	0	0.00
33	Paya MHS at Hiya	2 x 50	100	100	2011-12	70755	44557.00
Kra Dadi District							
34	Chambang	1 x 30	30	30	2009-10	0	0
Keyi Panyor District							
35	Mai Ph-I	4 x 500	2000	1500	1977-78	701349	268504.00
36	Mai Ph-II	2 x 500	1000	500	1982-83	1646255	1494466.00
37	Tago	3 x 1500	4500	3000	1992-93	793883	275350.00
Upper Subansiri District							
38	Sippi	2 x 2000	4000	4000	2008-09	335342	6952686.00
39	Pinto Karo MHS	1 x 25	25	25	2011-12	0	0.00
40	Sikin Karo	2 x 100	200	200	2011-12	0	0.00
41	Sinyum Koro	2 x 50	100	100	2011-12	0	92.00
42	Dulom (Daporijo)	4 x 100	400	300	1981-82	0	0.00
43	Ayingmuri MHS	2 x 125	250	250	2012-13	0	0.00
Eastern Zone (EZ)							
West Siang District							
44	Pagi (Basar)	2 x 50	100	50	1972-73	91562	74150.00
45	Ego-Echi (Dali)	4 x 100	400	400	1987-88	499774	511778.00
46	Liromoba	2 x 1000	2000	2000	2008-09	264167	114380.00
47	Along	3 x 100	300	300	2004	5119	NA
48	Kamba MHS	3 x 2000	6000	6000	2010	1936028	2963169.00
49	Yingko Sikong at Rapum	1 x 50	50	50	2009-10	45638	19186.00
50	Sirikorang MHS	2x250	500	500	2013-14	927279	775464.00
51	Solegomang MHS	1 x 50	50	50	2011-12	43788	19086.00
Lower Dibang Valley District							
Dibang Valley District							
52	Echi Ahfra at Anaya	2x200	400	400	2005-06	401280	370807.00
53	Tah Ahfra Ph-I and Ph-II at Angolin	1x50+1x50	100	100	2001-02 2009-10	3240	1605.00
54	Chini Ahfra at Amuli	1x250	250	250	2001-02	0	0.00
55	Awapani Ph-II at LG	2 x 250	500	250	2005-06	1445310	1428960.00
56	Echito Nallah at Dambien	2 x 20	40	40	2010-11	40540	29295.00
57	Rupapani at Punli	2 x 20	40	40	2010-11	46020	29219.00
58	Chu Nallah at Mipi	2 x 15	30	30	2011-12	34056	24075.00


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59	Awapani at Gepuline	2 x 250	500	500	2014-15	909859	1084419.00
Changlang District							
60	Jongkey Nallah	1 x 50	50	50	2011-12	9567	10993.00
61	Chicklong	2 x 75	150	150	2011-12	75990	62141.00
62	Tissue	4 x 100	400	300	1986-87	22107	240.00
63	Tinning	2 x 25	50	50	2010-11	6180	5694.00
Upper Siang District							
64	Sirnyuk SHP	2x1000	2000	2000	1996-97	3467793	3690304.00
65	Gosang (siri) MHS	2 x 250	500	500	2011-12	428494	281081.00
66	Selli MHS at Geku	2x 250	500	500	1994-95	673070	837206.00
67	Yingkiong Ph-I MHS	3x50	150	150	1980-81	9891	141079.00
68	Yingkiong Ph-II MHS	2x100	200	200	1992-93	225279	216874.00
69	Kopu MHS at Tuting	1x250	250	250	2004	164568	0.00
70	Sikut/ Tuting MHS	2x50	100	100	1984-85	184429	185454.00
71	Sillingri (Gelling) MHS	1x50	50	50	2008-09	147091	187197.00
72	Ngaming MHS	1x50	50	50	2008-09	78392	45749.00
73	Singa MHS	1x30	30	30	2008-09	63333	85268.00
74	Mayung	1x5	5	5	2011	8916	4803.00
Anjaw District							
75	Mati Nallah	2x250+1x50	550	500	2004-05	1206541	1232292.00
76	Yapak Nallah	2x100	200	200	2005-06	866021	904905.00
77	Kebitho	1x30	30	30	2004-05	0	0.00
78	Kaho	1 x 10	10	10	2004-05	0	0.00
79	Krawti Nallah	2 x 50	100	100	2011	228788	149749.00
80	Teepani MHS	2 x 250	500	500	2009-10	1111710	956171.00
81	Langpani MHS	2 x 200	400	400	2011-12	36923	41615.00
82	Kachopani MHS	2 x 100	200	200	2014-15	310325	143122.00
83	Maipani MHS	2 x 30	60	60	2010-11	0	0.00
Tirap District							
84	Charju	3 x 200	600	600	1984-85	692656	558886.00
85	Thiratju	4 x 250	1000	1000	1977	82265	20197.00
86	Sumhok Nallah	2 x 50	100	100	2009-10	0	0.00
Siang District							
87	Yembung	4 x 500	2000	2000	1984	2252649	2105793.00
East Siang District							
88	Rina	2 x 1000	2000	2000	2008-09	1542370	1324920.00
89	Pasighat	2 x 100	200	100	1972	49843	19186.00
90	Silli	1 x 30	30	30	2001-02	20800	22560.00
Lohit District							
91	Tafragram	1 x 250	250	250	1984-85	194130	94857.00
92	Doorah Nallah	2x100	200	200	2013-14	242639	207719.00
		3x100	300	300			
Total			58940	54890		51617937	56040808


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Interest on Loan Capital

3.3 The Petitioner has submitted that as per clause 16 of APSSRC RE Regulations 2024, interest on loan taken to fund the cost of project shall be recovered through tariff. DHPD 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.

Depreciation

3.4 The Petitioner in line with order dated 31.12.2024 has not submitted the depreciation for FY 2025-26.

Return on Equity(ROE)

3.5 The Petitioner in line with order dated 31.12.2024 has not submitted the equity for FY 2025-26.

Operation & Maintenance Expenses

3.6 The Operation and Maintenance Expenses as submitted by the Petitioner for the plants for FY 2025-26 is given in the table below:

Table 4 O&M Expenses of the plants as submitted by the Petitioner for FY 2025-26

S.No	Particulars	Installed Capacity(MW)	Firm Capacity(MW)	O&M expenses (Rs. Lakh)
1	91 HEPs	58.64	54.59	2720.26

Interest on Working Capital

3.7 The Interest on Working Capital as submitted by the Petitioner for the plants for FY 2025-26 is given in the table below:

Table 5 Interest on Working Capital(in Lakhs) as submitted by the Petitioner for FY 2025-26

S.No	Particulars	91 HEPs
1	O&M expense for one month	226.69
2	Maintenance of spares(15% of O&M)	408.04
3	Receivables @45 days of fixed cost	355.13
4	Total	989.96
5	Interest on Working Capital @12.20%	120.76

Total Annual Fixed Charge and Tariff

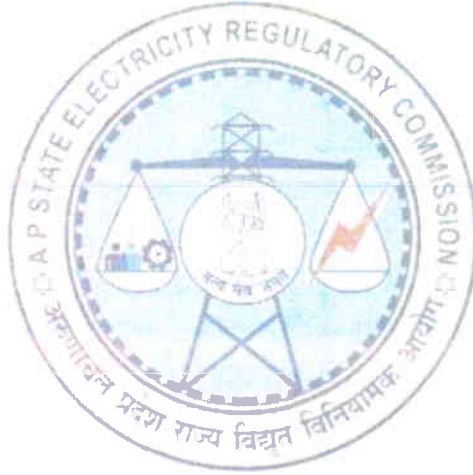
3.8 The total Annual Fixed Charge and Tariff submitted by the Petitioner for FY 2025-26 for the 91 HEPs is given in the table below:


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Table 6 Annual Fixed Charge and Tariff submitted by the Petitioner for FY 2025-26

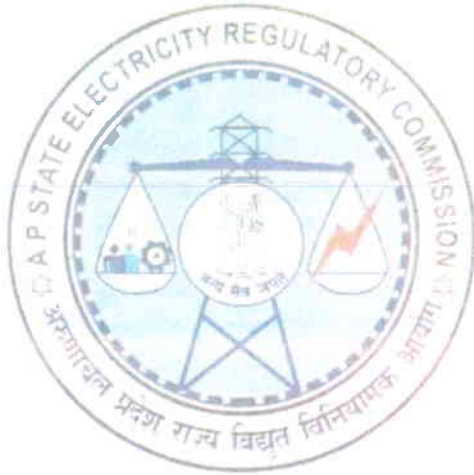
S.No	Particulars	UOM	79 HEPs
1	Depreciation	Rs. Lakh	0.00
2	Return on Equity		0.00
3	O&M Expenses		2720.26
4	Interest on Working Capital		120.76
5	Total Annual Fixed cost		2841.03
6	Installed Capacity	MW	54.59
7	CUF considered	%	45
8	Auxiliary Power Consumption (@1%)	MUs	2.15
9	Saleable Energy	MUs	213.04
10	Tariff	Rs/kWh	1.33




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CHAPTER 4: PUBLIC CONSULTATION PROCESS

4.1 A Public Hearing was held by the Commission on 10th July 2025 for giving additional opportunity to all the stakeholders to submit their comments/suggestions on the said petition. However, no specific comments/objections have been received on the petition by the Commission. The list of the attendees in the public hearing is mentioned in Annexure-I of this Order.




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CHAPTER 5: ARR & TARIFF DETERMINATION

5.1 The Commission has analysed the submission of the Petitioner with respect to the Annual Revenue Requirement and Tariff for the period FY 2025-26 and has undertaken the exercise for determination of ARR and Tariff for the Petitioner. The component wise description of the Petitioner's submission and the Commission's analysis thereof is provided hereunder.

5.2 The Commission while determining the ARR & Tariff exercise for FY 2025-26 has taken into consideration the following:

- APERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2024 and its amendments.
- Documents/Information/Data placed before the Commission;
- Methodology adopted by the Commission in its previous Orders.

5.3 The component-wise details filled by the Petitioner's and the Commission's analysis and approval is made in the upcoming paragraph.

Energy Sales

Petitioners Submission

5.4 The Petitioner has submitted that the entire electricity generated by the 91 HEPs is being sold within the state to the Department of Power, GoAP. The Petitioner has submitted detailed actual generation of the plants for the FY 2024-25 as given in the table below:

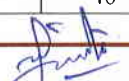
Table 7 Actual Generation of 91 no's HEP as submitted by Petitioner for FY 2024-25

Sl.No	Name of the Station	Units	Installed Capacity (kW)	Firm Capacity (kW)	COD (FY)	Actual Net Generation (kWh)
Western Zone(WZ)						
Tawang District						
1	Challengkang Ph-I	1 x 30	30	30	2004-05	35726.00
2	Challengkang Ph-II	1 x 30	30	30	2008-09	3941.00
3	Shakti Nallah	2 x 50	100	50	2008-09	64535.00
4	Thimbu	2 x 50	100	100	2009-10	78257.00
5	Khet	2 x 50	100	100	2009-10	155826.00
6	Tsechu Nallah	2 x 50	100	100	2010-11	69061.00
7	Mago MHS	2 x 50	100	100	2014-15	47837.00
8	Nuranang	3 x 2000	6000	6000	1996-97	7780239.00
9	Kitpi Ph-I	3 x 500	1500	1500	1977-78	0.00
10	Kitpi MHS Ph-II	2 x 1500	3000	3000	2008-09	4906474.00
11	T.Gompa	1 x 50	50	50	2001-02	17485.00
12	Bongleng	2 x 50	100	100	2009-10	1568.00
13	Bramdhongchung Ph-II	2 x 50	100	100	2010-11	0.00
West Kameng District						
14	Rahung	3 x 250	750	500	1972 - 73	765624.00


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15	Dirang	4 x 500	2000	1500	1977 - 78	1871530.00
16	Saktangrong MHS	3 x 100	300	300	2011-12	0.00
17	Zhongdongrong	2 x 500	1000	1000	2016-17	0.00
18	Sessa	3 x 500	1500	1500	1992-93	897404.00
19	Rupa	2 x 100	200	100	1997 - 98	30760.00
20	Dokumpani	1 x 30	30	30	2000-01	8773.00
21	Domkhrong	2 x 500	1000	1000	2008-09/2019-20	1778700.00
22	Ankaling	1 x 30	30	30	2009-10	0.00
23	Dikshi	2 x 30	60	60	2010-11/2019-20	26713.00
24	Khadiyabey	2 x 100	200	200	2011-12	0.00
25	Jigaon	2 x 50	100	100	2016-17	24502.00
Pakke Kessang District						
26	Pakke Kessang	1 x 30	30	30	2001-02	0.00
East Kameng District						
27	Pacha MHS	2 x 1500	3000	3000	2008-09	6940438.00
28	Pakoti	2 x 50	100	100	2010-11	149276.00
29	Patta Nallah	2 x 50	100	100	2010-11	219120.00
30	Watte Mame	1 x 50	50	50	2010-11	149716.00
31	Kade Nallah	1 x 50	50	50	2010-11	0.00
Kurung Kumey District						
32	Koye	1 x 50	50	50	2009-10	0.00
33	Paya MHS at Hiya	2 x 50	100	100	2011-12	44557.00
Kra Dadi District						
34	Chambang	1 x 30	30	30	2009-10	0.00
Keyi Panyor District						
35	Mai Ph-I	4 x 500	2000	1500	1977-78	268504.00
36	Mai Ph-II	2 x 500	1000	500	1982-83	1494466.00
37	Tago	3 x 1500	4500	3000	1992-93	275350.00
Upper Subansiri District						
38	Sippi	2 x 2000	4000	4000	2008-09	6952686.00
39	Pinto Karo MHS	1 x 25	25	25	2011-12	0.00
40	Sikin Karo	2 x 100	200	200	2011-12	0.00
41	Sinyum Koro	2 x 50	100	100	2011-12	92.00
42	Dulom (Daporijo)	4 x 100	400	300	1981-82	0.00
43	Ayingmuri MHS	2 x 125	250	250	2012-13	0.00
Eastern Zone (EZ)						
West Siang District						
44	Pagi (Basar)	2 x 50	100	50	1972-73	74150.00
45	Ego-Echi (Dali)	4 x 100	400	400	1987-88	511778.00
46	Liromoba	2 x 1000	2000	2000	2008-09	114380.00
47	Kamba MHS	3 x 2000	6000	6000	2010	2963169.00
48	Yingko Sikong at Rapum	1 x 50	50	50	2009-10	19186.00
49	Sirikorang MHS	2x250	500	500	2013-14	775464.00
50	Solegomang MHS	1 x 50	50	50	2011-12	19086.00
Lower Dibang Valley District						
Dibang Valley District						
51	Echi Ahfra at Anaya	2x200	400	400	2005-06	370807.00
52	Tah Ahfra Ph-I and Ph-II at Angolin	1x50+1x50	100	100	2001-02 2009-10	1605.00
53	Chini Ahfra at Amuli	1x250	250	250	2001-02	0.00
54	Awapani Ph-II at LG	2 x 250	500	250	2005-06	1428960.00
55	Echito Nallah at Dambien	2 x 20	40	40	2010-11	29295.00
56	Rupapani at Punli	2 x 20	40	40	2010-11	29219.00


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57	Chu Nallah at Mipi	2 x 15	30	30	2011-12	24075.00
58	Awapani at Gepuline	2 x 250	500	500	2014-15	1084419.00
Changlang District						
59	Jongkey Nallah	1 x 50	50	50	2011-12	10993.00
60	Chicklong	2 x 75	150	150	2011-12	62141.00
61	Tissue	4 x 100	400	300	1986-87	240.00
62	Tinning	2 x 25	50	50	2010-11	5694.00
Upper Siang District						
63	Sirnyuk SHP	2x1000	2000	2000	1996-97	3690304.00
64	Gosang (siri) MHS	2 x 250	500	500	2011-12	281081.00
65	Selli MHS at Geku	2x 250	500	500	1994-95	837206.00
66	Yingkiong Ph-I MHS	3x50	150	150	1980-81	141079.00
67	Yingkiong Ph-II MHS	2x100	200	200	1992-93	216874.00
68	Kopu MHS at Tuting	1x250	250	250	2004	0.00
69	Sikut/ Tuting MHS	2x50	100	100	1984-85	185454.00
70	Sillingri (Gelling) MHS	1x50	50	50	2008-09	187197.00
71	Ngaming MHS	1x50	50	50	2008-09	45749.00
72	Singa MHS	1x30	30	30	2008-09	85268.00
73	Mayung	1x5	5	5	2011	4803.00
Anjaw District						
74	Mati Nallah	2x250+1x50	550	500	2004-05	1232292.00
75	Yapak Nallah	2x100	200	200	2005-06	904905.00
76	Kebitho	1x30	30	30	2004-05	0.00
77	Kaho	1 x 10	10	10	2004-05	0.00
78	Krawti Nallah	2 x 50	100	100	2011	149749.00
79	Teepani MHS	2 x 250	500	500	2009-10	956171.00
80	Langpani MHS	2 x 200	400	400	2011-12	41615.00
81	Kachopani MHS	2 x 100	200	200	2014-15	143122.00
82	Maipani MHS	2 x 30	60	60	2010-11	0.00
Tirap District						
83	Charju	3 x 200	600	600	1984-85	558886.00
84	Thiratju	4 x 250	1000	1000	1977	20197.00
85	Sumhok Nallah	2 x 50	100	100	2009-10	0.00
Siang District						
86	Yebung	4 x 500	2000	2000	1984	2105793.00
East Siang District						
87	Rina	2 x 1000	2000	2000	2008-09	1324920.00
88	Pasighat	2 x 100	200	100	1972	19186.00
89	Silli	1 x 30	30	30	2001-02	22560.00
Lohit District						
90	Tafragram	1 x 250	250	250	1984-85	94857.00
91	Doorah Nallah	2x100	200	200	2013-14	207719.00
		3x100	300	300		
Total			58640	54590		56040808

Commissions Analysis

5.5 The Commission upon reviewing the actual generation data for the plants, has observed that the overall Capacity Utilization Factor (CUF) of the plants is approximately **11.72%**, which is significantly lower than the normative value of **45%** as stipulated under the **APSERC (Terms and Conditions for Determination of Renewable Energy Tariff)**


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Regulations, 2024, and its amendments. Additionally, the Commission has taken note of the Petitioner's submission, wherein the Petitioner has submitted a write-off of a total of 4 plants which has been approved by the Government of Arunachal Pradesh (GoAP). The details of these plants are outlined in **Annexure 2** of this order, a brief summary of the plants is provided in the table below.

Table 8 Actual Power Generation status of Plants of DHPD for FY 2024-25

S.No	Particulars	UOM	FY 2024-25
1	Total no. of Plants	No's	91
2	Total Installed Capacity	MW	54.59
3	Annual Design Energy	MU	488.00
4	Actual Net Generation	MU	56.04
5	Total Power Plant (Nil Generation)	No's	21
6	Total Installed Capacity (Nil Generation)	MW	5.165
7	CUF (For operational plant)	%	11.72%

5.6 In this context, the Commission directs the Petitioner to take necessary measures to enhance the CUF of the plants. Nevertheless, the Commission hereby approves the actual net generation data submitted by the Petitioner for FY 2024-25.

Capital Cost

Petitioners Submission

- 5.7 The Petitioner has referred to Clause 14 of the APSERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2024, which stipulates that the capital cost specified in the technology-specific chapters shall be considered for the determination of Annual Fixed Charges (AFC) and Tariff. The capital cost approved by the Commission shall serve as the basis for determining project-specific tariffs.
- 5.8 The Petitioner has further stated that the Commission has approved the capital cost of 79 HEPs in the tariff order Dt.20.12.2019 for the FY 2019-20. Further in respect of 37 HEPs Honourable Commission in the tariff order Dt 31.12.2024 for the FY2024-25 has observed below:

"5.11 The Commission has referred the Tariff Order of DHPD for the fiscal year 2019-20, dated 20/12/2019, in which the Commission has approved the capital cost of 79 Hydroelectric Projects (HEPs) after conducting a thorough review and analysis of the documents submitted by the Petitioner. In the present matter, the Petitioner has sought approval for the capital cost of the remaining 37 HEPs, for which approval was not granted by the Commission at that time due to inadequate data.


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5.12 In the present context for approval of the capital cost of 37 HEPs the Petitioner has stated that the capital cost was determined considering the APSERC (Terms & Conditions for tariff Determination from Renewable Energy Sources) Regulations, 2012.

5.13 The Commission has reviewed the APSERC (Terms & Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2012, for the purpose of determining the capital cost of the plants. The Commission has also examined the submission made by the petitioner in which the Petitioner has provided the capital cost for each individual plant. Upon scrutinizing the submitted details, the Commission has noted that the Petitioner failed to submit the base cost used for the calculation of capital costs, prior to the application of the relevant escalations, as stipulated under the APSERC (Terms & Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2012.

5.14 In the absence of the base data, the Commission is unable to proceed with the approval of the capital cost for the 37 Hydroelectric Projects (HEPs). Consequently, the Commission does not grant approval for the capital cost of the 37 HEPs at this time. However, the Commission provides the Petitioner with an opportunity to seek approval for the capital cost of the 37 HEPs upon the submission of a detailed cost breakdown, along with the necessary supporting documentation in future petition."

- 5.9 The Petitioner has submitted that it is making efforts to finalize the capital cost HEPs based on the data/records. The same shall be submitted for consideration of the Honourable Commission. However, the projects which have either been approved for write off or are under process to be written off have already been excluded in the instant petition as submitted supra.

Commissions Analysis

- 5.10 The Commission has taken a note of the submission of the Petitioner and shall approve the capital cost of the remaining 37 projects once all the necessary documents supporting the claim is being submitted. Accordingly, the Commission in the present case has not approved any capital cost for the projects.

Interest on Loan Capital

Petitioners Submission

- 5.11 The Petitioner has cited Clause 16 of the APSERC RE Regulations, 2024, which stipulates that interest on loans taken to finance the project cost shall be recovered through tariff. The Petitioner has indicated that no loan has been taken for financing of the projects and,


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therefore, no interest on loan has been claimed. Furthermore, the Petitioner has stated that it will seek to claim interest on loan in accordance with the applicable regulations, should any loan be availed for the financing of the projects in the future.

Commissions Analysis

5.12 The Commission has acknowledged the submission made by the Petitioner and in light of this has not considered the interest on loan component in the tariff calculations for the fiscal year 2025-26.

Depreciation

Petitioners Submission

5.13 The Petitioner has referred to Regulation 17 of APSERC RE Regulations, 2024 which states that depreciation is to be calculated on the capital cost admitted by the Commission considering salvage value as 10%. The Petitioner has further stated that depreciation is to be calculated at 4.67% for the first 15 years and remaining depreciation is to be spread over the remaining useful life of the project. The Petitioner has considered rate of depreciation as 4.67% as per RE Regulations 2024.

5.14 The Petitioner has submitted that the entire capital cost of the projects is being funded by Government of Arunachal Pradesh as a grant and the Honourable Commission in the Tariff order Dt.31.12.2024 for the FY 2024-25 has observed as follows:

"The Commission has acknowledged the submission made by the Petitioner with respect to depreciation claimed for FY 2024-25. The Commission is aware of the fact that the entire capital cost of the Petitioner is being funded by Government of Arunachal Pradesh as a grant hence for such instance's depreciation charge shall not be applicable for tariff calculation.

Consequently, if the capital cost is provided as a grant, the depreciation is not charged on the portion of the capital cost that is funded by the grant. The rationale is that depreciation is typically calculated on the actual capital invested by the project owner, and if the government has provided the funding as a grant, there is no obligation for the project owner to recover this cost through depreciation.

The Commission has also referred to the accounting standard Regarding treatment of Grant, wherein as per the Accounting Standards 12 of Institute of Chartered Accountants of India (ICAI), the principle for treatment of grants is laid as under:


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"Government grants related to specific fixed assets should be presented in the balance sheet by showing the grant as a deduction from the gross value of the assets concerned in arriving at their book value. Where the grant related to a specific fixed asset equals the whole, or virtually the whole, of the cost of the assets, the asset should be shown in the balance sheet at a nominal value. Alternatively, government grant related to depreciable fixed assets may be treated as deferred income which should be recognized in the profit and loss statement on a systematic and rational basis over the useful life of the asset, i.e., such grant should be allocated to income over the periods and in the proportion in which depreciation on those assets is charges."

The Commission had further observed that the Accounting Standards issued by the Chartered Accountants of India provides for two methods for treatment of the grant identifiable to the asset. Under first alternative, the gross block is reduced by the amount of grant and the depreciation is provided on reduced gross block. Under second alternative, depreciation is provided on the total gross block but the amount equal to the depreciation on the specific assets related to grant is shown as income in the respective year in the Profit and Loss Account and would be deductible from the tariff. Since no asset has been created by the licensee through its own equity or capital, and the entire funding is done through government grant / aid, no depreciation is allowed for the project.

Considering the above facts and information, the Commission hereby disallows the consideration of any depreciation in the tariff component for the fiscal year 2024-25 ..."

5.15 In view of the above order the Petitioner has not claimed any depreciation for FY 2025-26.

Commissions Analysis

5.16 The Commission in line with the methodology adopted in the earlier order as referenced in the above para has not considered any depreciation amount for the FY 2025-26.

Return on Equity

Petitioners Submission

5.17 The Petitioner has referred to provision under Regulation 18 of APSSRC Regulations, 2024 for calculation of RoE and accordingly has considered RoE @ 14.5% pa. The Petitioner has further submitted that the entire capital cost of the projects is being funded by Government of Arunachal Pradesh as a grant and the Hon'ble Commission in the Tariff Order Dt.31.12.2024 for the FY 2024-25 has observed as follows:

"The Commission is aware of the fact that the entire funding of capital cost is being availed by the Petitioner as a grant from the GoAP with no obligation to pay back. Hence no equity is being infused either from shareholder or the Petitioner for development of projects. As a result,


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return on equity on capital does not arise in the tariff calculation of the plants. Accordingly, the Commission does not find any rationale in approving the RoE for the plants as submitted by the Petitioner. Hence the Commission has considered the Return on Equity of the plants as nil for FY 2024-25...

5.18 In view of the above order the Petitioner has not claimed any Return on Equity for FY 2025-26.

Commissions Analysis

5.19 The Commission in line with the methodology adopted in the earlier order as referenced in the above para has not considered any Return on Equity for the FY 2025-26.

Operation & Maintenance Expenses

Petitioners Submission

5.20 The Petitioner has referred to Regulation 29 of the APSERC RE Regulations, 2024, which stipulates that the normative O&M expenses for Small Hydropower Projects (SHPs) with a capacity below 500 kW shall be ₹41.78 Lakh/MW, and for SHPs with a capacity between 500 kW and 1 MW, shall be ₹31.34 Lakh/MW for the base year FY 2024-25. Further Regulation 21.2 provides for an escalation of 5.89% per annum on the above normative O&M expenses for subsequent years.

5.21 The Petitioner has taken into account the O&M expenses already approved for the Small Hydropower Projects (SHPs) in the previous tariff order and has applied an annual escalation rate of 5.89% to arrive at the proposed O&M expenses of the respective SHPs for the FY 2025-26.

5.22 Accordingly, the O&M expenses have been computed by the Petitioner and summarized in the table below:

Table 9 O&M expenses as submitted by the Petitioner for FY 2025-26(Rs.Lakhs)

S.No	Particulars	Installed Capacity (MW)	Firm Capacity(MW)	O&M cost(Lakhs)
1	91HEPs	58.64	54.59	2720.26

Commissions Analysis

5.23 The Commission has referred to the tariff order for FY 2024-25, which is considered the first year of the three-year control period. In this order, by referring to Clause 38 of the


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APSERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2024, the Commission calculated the normative O&M expenses based on prevailing market trends and approved the first year O&M expenses for the SHP's in the tariff order dated 31.12.2024.

5.24 Furthermore, for determining the O&M expenses for the second year of the control period, the Commission has escalated the base value of FY 2024-25 by 5.89% to arrive at the O&M expenses for FY 2025-26, in accordance with Clause 21.2 of the APSERC RE Regulations, 2024, as outlined below:

"21.2 Normative O&M expenses allowed during first year of the Control Period under these regulations shall be escalated at the rate of 5.89% per annum for the Tariff Period."

5.25 Pursuant to the aforementioned provisions, the Commission has computed and approved the O&M expenses for the 91 SHP's as shown in the table below:




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Table 10 O&M expenses (in Lakhs) as approved by the Commission for FY 2025-26

Sl. No	Name of the Station	Units	Installed Capacity(kW)	Firm Capacity(kW)	Year of Commissioning (FY)	O&M Approved for FY 25 as per order dated 31.12.24	O&M Approved for FY 26
Western Zone(WZ)							
Tawang District							
1	Challengkang Ph-I	1 x 30	30	30	2004-05	1.49	1.58
2	Challengkang Ph-II	1 x 30	30	30	2008-09	1.49	1.58
3	Shakti Nallah	2 x 50	100	50	2008-09	2.49	2.63
4	Thimbu	2 x 50	100	100	2009-10	4.97	5.27
5	Khet	2 x 50	100	100	2009-10	4.97	5.27
6	Tsechu Nallah	2 x 50	100	100	2010-11	4.97	5.27
7	Mago MHS	2 x 50	100	100	2014-15	4.97	5.27
8	Nuranang	3 x 2000	6000	6000	1996-97	225.48	238.76
9	Kitpi Ph-I	3 x 500	1500	1500	1977-78	74.60	78.99
10	Kitpi MHS Ph-II	2 x 1500	3000	3000	2008-09	149.19	157.98
11	T. Gompa	1 x 50	50	50	2001-02	2.49	2.63
12	Bongleng	2 x 50	100	100	2009-10	4.97	5.27
13	Bramdhongchung Ph-II	2 x 50	100	100	2010-11	4.97	5.27
West Kameng District							
14	Rahung	3 x 250	750	500	1972 - 73	24.87	26.33
15	Dirang	4 x 500	2000	1500	1977 - 78	74.60	78.99
16	Saktangrong MHS	3 x 100	300	300	2011-12	14.92	15.80
17	Zhongdongrong	2 x 500	1000	1000	2016-17	49.73	52.66
18	Sessa	3 x 500	1500	1500	1992-93	74.60	78.99
19	Rupa	2 x 100	200	100	1997 - 98	4.97	5.27
20	Dokumpani	1 x 30	30	30	2000-01	1.49	1.58
21	Domkhong	2 x 500	1000	1000	2008-09/2019-20	49.73	52.66
22	Ankaling	1 x 30	30	30	2009-10	1.49	1.58
23	Dikshi	2 x 30	60	60	2010-11/2019-20	2.98	3.16
24	Khadiyabey	2 x 100	200	200	2011-12	9.95	10.53
25	Jigaon	2 x 50	100	100	2016-17	4.97	5.27
Pakke Kessang District							
26	Pakke Kessang	1 x 30	30	30	2001-02	1.49	1.58
East Kameng District							
27	Pacha MHS	2 x 1500	3000	3000	2008-09	149.19	157.98
28	Pakoti	2 x 50	100	100	2010-11	4.97	5.27
29	Patta Nallah	2 x 50	100	100	2010-11	4.97	5.27


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30	Watte Mame	1 x 50	50	50	2010-11	2.49	2.63
31	Kade Nallah	1 x 50	50	50	2010-11	2.49	2.63
Kurung Kumey District							
32	Koye	1 x 50	50	50	2009-10	2.49	2.63
33	Paya MHS at Hiya	2 x 50	100	100	2011-12	4.97	5.27
Kra Dadi District							
34	Chambang	1 x 30	30	30	2009-10	1.49	1.58
Keyi Panyor District							
35	Mai Ph-I	4 x 500	2000	1500	1977-78	74.60	78.99
36	Mai Ph-II	2 x 500	1000	500	1982-83	24.87	26.33
37	Tago	3 x 1500	4500	3000	1992-93	149.19	157.98
Upper Subansiri District							
38	Sippi	2 x 2000	4000	4000	2008-09	198.92	210.64
39	Pinto Karo MHS	1 x 25	25	25	2011-12	1.24	1.32
40	Sikin Karo	2 x 100	200	200	2011-12	9.95	10.53
41	Sinyum Koro	2 x 50	100	100	2011-12	4.97	5.27
42	Dulom (Daporijo)	4 x 100	400	300	1981-82	14.92	15.80
43	Ayingmuri MHS	2 x 125	250	250	2012-13	12.43	13.16
Eastern Zone (EZ)							
West Siang District							
44	Pagi (Basar)	2 x 50	100	50	1972-73	2.49	2.63
45	Ego-Echi (Dali)	4 x 100	400	400	1987-88	19.89	21.06
46	Liromoba	2 x 1000	2000	2000	2008-09	99.46	105.32
47	Kamba MHS	3 x 2000	6000	6000	2010	225.48	238.76
48	Yingko Sikong at Rapum	1 x 50	50	50	2009-10	2.49	2.63
49	Sirikorang MHS	2x250	500	500	2013-14	24.87	26.33
50	Solegomang MHS	1 x 50	50	50	2011-12	2.49	2.63
Dibang Valley District							
51	Echi Ahfra at Anaya	2x200	400	400	2005-06	19.89	21.06
52	Tah Ahfra Ph-I and Ph-II at Angolin	1x50+ 1x50	100	100	2001-02 2009-10	4.97	5.27
53	Chini Ahfra at Amuli	1x250	250	250	2001-02	12.43	13.16
54	Awapani Ph-II at LG	2 x 250	500	250	2005-06	12.43	13.16
55	Echito Nallah at Dambien	2 x 20	40	40	2010-11	1.99	2.11
56	Rupapani at Punli	2 x 20	40	40	2010-11	1.99	2.11
57	Chu Nallah at Mipi	2 x 15	30	30	2011-12	1.49	1.58
58	Awapani at Gepuline	2 x 250	500	500	2014-15	24.87	26.33
Changlang District							
59	Jongkey Nallah	1 x 50	50	50	2011-12	2.49	2.63
60	Chicklong	2 x 75	150	150	2011-12	7.46	7.90
61	Tissue	4 x 100	400	300	1986-87	14.92	15.80
62	Tinning	2 x 25	50	50	2010-11	2.49	2.63
Upper Siang District							
63	Sirnyuk SHP	2x1000	2000	2000	1996-97	99.46	105.32
64	Gosang (siri) MHS	2 x 250	500	500	2011-12	24.87	26.33


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65	Selli MHS at Geku	2x 250	500	500	1994-95	24.87	26.33
66	Yingkiong Ph-I MHS	3x50	150	150	1980-81	7.46	7.90
67	Yingkiong Ph-II MHS	2x100	200	200	1992-93	9.95	10.53
68	Kopu MHS at Tuting	1x250	250	250	2004	12.43	13.16
69	Sikut/ Tuting MHS	2x50	100	100	1984-85	4.97	5.27
70	Sillingri (Gelling) MHS	1x50	50	50	2008-09	2.49	2.63
71	Ngaming MHS	1x50	50	50	2008-09	2.49	2.63
72	Singa MHS	1x30	30	30	2008-09	1.49	1.58
73	Sika MHS at Likor	1x15	15	15	2010	0.75	0.79
Anjaw District							
74	Mati Nallah	2x250 +1x50	550	500	2004-05	24.87	26.33
75	Yapak Nallah	2x100	200	200	2005-06	9.95	10.53
76	Kebitho	1x30	30	30	2004-05	1.49	1.58
77	Kaho	1 x 10	10	10	2004-05	0.50	0.53
78	Krawti Nallah	2 x 50	100	100	2011	4.97	5.27
79	Teepani MHS	2 x 250	500	500	2009-10	24.87	26.33
80	Langpani MHS	2 x 200	400	400	2011-12	19.89	21.06
81	Kachopani MHS	2 x 100	200	200	2014-15	9.95	10.53
82	Maipani MHS	2 x 30	60	60	2010-11	2.98	3.16
Tirap District							
83	Charju	3 x 200	600	600	1984-85	29.84	31.60
84	Thiratju	4 x 250	1000	1000	1977	49.73	52.66
85	Sumhok Nallah	2 x 50	100	100	2009-10	4.97	5.27
Siang District							
86	Yembung	4 x 500	2000	2000	1984	99.46	105.32
East Siang District							
87	Rina	2 x 1000	2000	2000	2008-09	99.46	105.32
88	Pasighat	2 x 100	200	100	1972	4.97	5.27
89	Silli	1 x 30	30	30	2001-02	1.49	1.58
Lohit District							
90	Tafragram	1 x 250	250	250	1984-85	12.43	13.16
91	Doorah Nallah	2x100	200	200	2013-14	24.87	26.33
		3x100	300	300			0.00
Total			58650	54600		2569.458	2720.80


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Interest on Working Capital

Petitioners Submission

5.26 The Petitioner has submitted that the requirement of working capital and interest thereon has been computed as per clause 19 “Interest on Working Capital” of the APSERC RE Regulations 2024. The Petitioner has considered interest @12.20% pa on working capital which is 325 basis points above the SBI MCLR (One Year tenor) for last six months. The average SBI MCLR (one-year tenor) for last six months is 8.95%. The summary of Interest on Working Capital as submitted by the Petitioner for FY 2025-26 is given in the table below:

Table 11 Interest on Working Capital as submitted by the Petitioner for FY 2025-26 (in Lakhs)

S.No	Particulars	For 91 HEPs
1	Operation & Maintenance Expense (1 month)	226.69
2	Maintenance of Spares (15% of O&M)	408.04
3	Receivables (45 days of fixed cost)	355.13
4	Total	989.86
5	Interest on Working Capital @12.20%	120.76

Commissions Analysis

5.27 **Interest on Working Capital (IoWC)** represents the cost incurred towards borrowing short-term funds for meeting day-to-day operational expenses, particularly in cases where there is a delay in revenue collection or billing cycles. It constitutes the interest payable on the working capital requirement financed through loans or credit. However, in the present case, the Commission observes that the entire working capital requirement of the Department of Hydro Power Development is being met through grants provided by the Government of Arunachal Pradesh. Consequently, there is no interest liability on DHPD in this regard.

5.28 In light of the above, the Commission is of the view that the provision for Interest on Working Capital should not be applicable to DHPD. Accordingly, no amount towards Interest on Working Capital has been approved for DHPD for the FY 2025-26.


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Capacity Utilization Factor

Petitioners Submission

5.29 In accordance with the FY 2024-25 order dated 31.12.2024, the Petitioner has considered a CUF of 45% as approved by the Commission for the SHPs and has projected the gross generation for FY26 on similar methodology. Furthermore, as per Clause 3.7 of the APSERC RE Regulation 2024, the Petitioner has accounted for 1% auxiliary consumption to determine the net energy generation for the 91 SHPs considered.

5.30 Based on the above considerations the Petitioner has computed the saleable energy from the 91 SHP's as given in the table below:

Table 12 Saleable Energy as submitted by the Petitioner for FY 2025-26 for the HEPs

S.No	Particulars	UOM	91HEPs
1	Installed capacity	MW	54.59
2	CUF considered	%	45
3	Gross Energy	MU	215.19
4	Auxiliary Power Consumption@1%	MU	2.15
5	Saleable Energy	MU	213.04

Commission's Analysis

5.31 The Commission has referred to the CUF of the plants considering the actual generation as submitted by the Petitioner for FY 2024-25 referred in the table below:

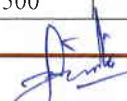
Table 13 CUF of plants calculated by the Commission based on actual generation for FY 2024-25

Sl. No	Name of the Station	Units	Installed Capacity (kW)	Firm Capacity (kW)	Year of Commissioning (FY)	Actual Net Generation (kWh)	Actual CUF(%)
Western Zone(WZ)							
Tawang District							
1	Challengkang Ph-I	1 x 30	30	30	2004-05	35726.00	13.59%
2	Challengkang Ph-II	1 x 30	30	30	2008-09	3941.00	1.50%
3	Shakti Nallah	2 x 50	100	50	2008-09	64535.00	14.73%
4	Thimbu	2 x 50	100	100	2009-10	78257.00	8.93%
5	Khet	2 x 50	100	100	2009-10	155826.00	17.79%
6	Tsechu Nallah	2 x 50	100	100	2010-11	69061.00	7.88%
7	Mago MHS	2 x 50	100	100	2014-15	47837.00	5.46%
8	Nuranang	3 x 2000	6000	6000	1996-97	7780239.00	14.80%
9	Kitpi Ph-I	3 x 500	1500	1500	1977-78	0.00	0.00%
10	Kitpi MHS Ph-II	2 x 1500	3000	3000	2008-09	4906474.00	18.67%
11	T. Gompa	1 x 50	50	50	2001-02	17485.00	3.99%
12	Bongleng	2 x 50	100	100	2009-10	1568.00	0.18%
13	Bramdhongchung Ph-II	2 x 50	100	100	2010-11	0.00	0.00%


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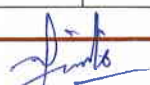
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West Kameng District							
14	Rahung	3 x 250	750	500	1972 - 73	765624.00	17.48%
15	Dirang	4 x 500	2000	1500	1977 - 78	1871530.00	14.24%
16	Saktangrong MHS	3 x 100	300	300	2011-12	0.00	0.00%
17	Zhongdongrong	2 x 500	1000	1000	2016-17	0.00	0.00%
18	Sessa	3 x 500	1500	1500	1992-93	897404.00	6.83%
19	Rupa	2 x 100	200	100	1997 - 98	30760.00	3.51%
20	Dokumpani	1 x 30	30	30	2000-01	8773.00	3.34%
21	Domkhrong	2 x 500	1000	1000	2008-09/2019-20	1778700.00	20.30%
22	Ankaling	1 x 30	30	30	2009-10	0.00	0.00%
23	Dikshi	2 x 30	60	60	2010-11/2019-20	26713.00	5.08%
24	Khadiyabey	2 x 100	200	200	2011-12	0.00	0.00%
25	Jigaon	2 x 50	100	100	2016-17	24502.00	2.80%
Pakke Kessang District							
26	Pakke Kessang	1 x 30	30	30	2001-02	0.00	0.00%
East Kameng District							
27	Pacha MHS	2 x 1500	3000	3000	2008-09	6940438.00	26.41%
28	Pakoti	2 x 50	100	100	2010-11	149276.00	17.04%
29	Patta Nallah	2 x 50	100	100	2010-11	219120.00	25.01%
30	Watte Mame	1 x 50	50	50	2010-11	149716.00	34.18%
31	Kade Nallah	1 x 50	50	50	2010-11	0.00	0.00%
Kurung Kumey District							
32	Koye	1 x 50	50	50	2009-10	0.00	0.00%
33	Paya MHS at Hiya	2 x 50	100	100	2011-12	44557.00	5.09%
Kra Dadi District							
34	Chambang	1 x 30	30	30	2009-10	0.00	0.00%
Keyi Panyor District							
35	Mai Ph-I	4 x 500	2000	1500	1977-78	268504.00	2.04%
36	Mai Ph-II	2 x 500	1000	500	1982-83	1494466.00	34.12%
37	Tago	3 x 1500	4500	3000	1992-93	275350.00	1.05%
Upper Subansiri District							
38	Sippi	2 x 2000	4000	4000	2008-09	6952686.00	19.84%
39	Pinto Karo MHS	1 x 25	25	25	2011-12	0.00	0.00%
40	Sikin Karo	2 x 100	200	200	2011-12	0.00	0.00%
41	Sinyum Koro	2 x 50	100	100	2011-12	92.00	0.01%
42	Dulom (Daporijo)	4 x 100	400	300	1981-82	0.00	0.00%
43	Ayingmuri MHS	2 x 125	250	250	2012-13	0.00	0.00%
Eastern Zone (EZ)							
West Siang District							
44	Pagi (Basar)	2 x 50	100	50	1972-73	74150.00	16.93%
45	Ego-Echi (Dali)	4 x 100	400	400	1987-88	511778.00	14.61%
46	Liromoba	2 x 1000	2000	2000	2008-09	114380.00	0.65%
47	Kamba MHS	3 x 2000	6000	6000	2010	0.00	0.00%
48	Yingko Sikong at Rapum	1 x 50	50	50	2009-10	2963169.00	5.64%
49	Sirikorang MHS	2x250	500	500	2013-14	19186.00	4.38%


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50	Solegomang MHS	1 x 50	50	50	2011-12	775464.00	17.70%
Dibang Valley District							
51	Echi Ahfra at Anaya	2x200	400	400	2005-06	370807.00	10.58%
52	Tah Ahfra Ph-I and Ph-II at Angolin	1x50+1x50	100	100	2001-02 2009-10	1605.00	0.18%
53	Chini Ahfra at Amuli	1x250	250	250	2001-02	0.00	0.00%
54	Awapani Ph-II at LG	2 x 250	500	250	2005-06	1428960.00	65.25%
55	Echito Nallah at Dambien	2 x 20	40	40	2010-11	29295.00	8.36%
56	Rupapani at Punli	2 x 20	40	40	2010-11	29219.00	8.34%
57	Chu Nallah at Mipi	2 x 15	30	30	2011-12	24075.00	9.16%
58	Awapani at Gepuline	2 x 250	500	500	2014-15	1084419.00	24.76%
Changlang District							
59	Jongkey Nallah	1 x 50	50	50	2011-12	10993.00	2.51%
60	Chicklong	2 x 75	150	150	2011-12	62141.00	4.73%
61	Tissue	4 x 100	400	300	1986-87	240.00	0.01%
62	Tinning	2 x 25	50	50	2010-11	5694.00	1.30%
Upper Siang District							
63	Sirnyuk SHP	2x1000	2000	2000	1996-97	3690304.00	21.06%
64	Gosang (siri) MHS	2 x 250	500	500	2011-12	281081.00	6.42%
65	Selli MHS at Geku	2x 250	500	500	1994-95	837206.00	19.11%
66	Yingkiong Ph-I MHS	3x50	150	150	1980-81	141079.00	10.74%
67	Yingkiong Ph-II MHS	2x100	200	200	1992-93	216874.00	12.38%
68	Kopu MHS at Tuting	1x250	250	250	2004	0.00	0.00%
69	Sikut/ Tuting MHS	2x50	100	100	1984-85	185454.00	21.17%
70	Sillingri (Gelling) MHS	1x50	50	50	2008-09	187197.00	42.74%
71	Ngaming MHS	1x50	50	50	2008-09	45749.00	10.44%
72	Singa MHS	1x30	30	30	2008-09	85268.00	32.45%
73	Sika MHS at Likor	1x15	15	15	2010	4803.00	10.97%
Anjaw District							
74	Mati Nallah	2x250+1x50	550	500	2004-05	1232292.00	28.13%
75	Yapak Nallah	2x100	200	200	2005-06	904905.00	51.65%
76	Kebitho	1x30	30	30	2004-05	0.00	0.00%
77	Kaho	1 x 10	10	10	2004-05	0.00	0.00%
78	Krawti Nallah	2 x 50	100	100	2011	149749.00	17.09%
79	Teepani MHS	2 x 250	500	500	2009-10	956171.00	21.83%
80	Langpani MHS	2 x 200	400	400	2011-12	41615.00	1.19%
81	Kachopani MHS	2 x 100	200	200	2014-15	143122.00	8.17%
82	Maipani MHS	2 x 30	60	60	2010-11	0.00	0.00%
Tirap District							
83	Charju	3 x 200	600	600	1984-85	558886.00	10.63%
84	Thiratju	4 x 250	1000	1000	1977	20197.00	0.23%
85	Sumhok Nallah	2 x 50	100	100	2009-10	0.00	0.00%
Siang District							
86	Yembung	4 x 500	2000	2000	1984	2105793.00	12.02%
East Siang District							
87	Rina	2 x 1000	2000	2000	2008-09	1324920.00	7.56%


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88	Pasighat	2 x 100	200	100	1972	19186.00	2.19%
89	Silli	1 x 30	30	30	2001-02	22560.00	8.58%
Lohit District							
90	Tafragram	1 x 250	250	250	1984-85	94857.00	4.33%
91	Doorah Nallah	2x100	200	200	2013-14	207719.00	11.86%
		3x100	300	300		0.00	0.00%
Total			58650	54600		56040808.00	11.72%

5.32 Upon analysis of the actual generation data for the financial year 2024-25, the Commission observes that the average Capacity Utilization Factor (CUF) considering all the 91 plants is 11.72%, which is significantly lower than the normative CUF of 45% stipulated under the APERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2024. The Commission expresses its concern regarding the underperformance of the plants and directs the Petitioner to implement necessary measures to improve the overall CUF.

5.33 The Commission has referred refers to Clause 36 and Clause 37 of the APERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2024 which outline the parameters for determining CUF and Auxiliary Consumption for such plant and has considered accordingly for the calculation of gross and net generation for the plants. The relevant excerpt from the Regulations is referred below:

“36. Capacity Utilisation Factor

The minimum CUF for Small Hydro project shall be 45%. Provided that the Commission may deviate from above norm in case of project specific tariff determination based on designed load factor / CUF.

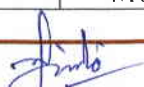
37. Auxiliary Consumption

The auxiliary consumption factor shall be 1% of gross generation. Provided that the Commission may deviate from the above norm in case of project specific tariff determination in pursuance of Regulation 8 and Regulation 9.”

5.34 The Commission has accordingly considered a Capacity Utilization Factor (CUF) of 45% and auxiliary consumption of 1% for the plants. The details of generation approved by the Commission for the financial year 2025-26 is provided in the table below:

Table 14 Saleable Energy approved by the Commission for FY 2025-26

S.No	Particulars	UOM	Approved
1	Installed Capacity	MW	54.59
2	CUF considered	%	45%
3	Gross Energy	MU	215.19


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4	Auxiliary Consumption	%	1%
5	Auxiliary Consumption	MU	2.15
6	Saleable Energy	MU	213.04

5.35 The details of the plant wise generation considering 45% CUF is shown in Annexure 3 of this order.

Annual Fixed Charge & Tariff

Petitioners Submission

5.36 The Annual Fixed Charge and Tariff submitted by the Petitioner is given in the table below:

Table 15 AFC and Tariff of the plants as submitted by the Petitioner for FY 2025-26

S.No	Particulars	UOM	91HEPs
1	Depreciation	Rs. Lakh	0.00
2	Return on Equity		0.00
3	Interest on Loan		0.00
4	O&M Expenses		2720.26
5	Interest on Working Capital		120.76
6	Total Annual Fixed cost		2841.03
7	Installed Capacity	MW	54.59
8	CUF considered	%	45
9	Auxiliary Power Consumption (@1%)	MUs	2.15
10	Saleable Energy	MUs	213.04
11	Tariff	Rs/kWh	1.33

Commissions Analysis

5.37 The Commission in accordance with the approval as provided in the above para of this order approves the Annual Fixed Charge and Tariff for the plants as referred in the table below:

Table 16 AFC and Tariff as approved by the Commission for FY 2025-26

S.No	Particulars	UOM	Approved
1	Depreciation	Rs. Lakh	0.00
2	Return on Equity		0.00
3	Interest on Loan		0.00
4	O&M Expenses		2720.80
5	Interest on Working Capital		0.00
6	Total Annual Fixed cost		2720.80
7	Saleable Energy	MUs	213.04
8	Tariff	Rs/kWh	1.277


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CHAPTER 6: Status of Earlier Directives

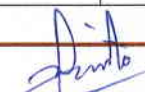
6.1 The Commission has time and again issued various directives in order to improve the functioning of the Petitioner. The compliance status submitted by the Petitioner to the Commission earlier directions is tabulated below:

Table 17 Status of Earlier directives issued by the Commission

S.No	Directives	Petitioner response
1	<p>Electricity Regulatory Cell</p> <p>DHPD shall create an Electricity Regulatory Cell (under a senior Officer) from the existing staff strength. The Cell so created shall be provided with necessary authority and resources so as to look after all the Tariff and Regulatory matters primarily to keep an vigil on the parameters approved and directives issued by the Commission and also to provide correct and timely information to the Commission. The said officer shall be the primary source of all data and submissions being filed before the Commission, to ensure consistency and timelines of the data submitted and proper co-ordination with the Commission in the tariff determination process.</p> <p>As per DHPD the Department have a nodal officer for Tariff and Regulatory matters. But due to lack of officers Electricity Regulatory Cell is still under process. However, the Commission direct DHPD it is very urgent to have this cell headed by some senior officials from DHPD and furnish details of Concern officer, their phone nos. and email IDs for faster and efficient working.</p>	<p>The Petitioner has submitted that DHPD was bifurcated from DoP and created as a new department on 12-11-2003 under a single Chief Engineer. However, overtime it was diversified and three more Chief Engineer namely Monitoring, Eastern Zone and Planning & Design was created. Despite more creation of CE office under DHPD, no additional post for supporting staffs have been created till date, partly due to austerity measures adopted by GoAP. Hence there is insufficient staff from the present work force that could be assigned for the regulatory cell works. However, the regulatory matter is somehow managed through Electromechanical Section under DHPD despite the shortages of officers and supporting staffs. Additional posts for officers and supporting staff shall be projected in BE 2025-26 for regulatory cell.</p>
2	<p>Unbundling and transfer of Asset</p> <p>Electricity functions covering Generation is being performed by the DHPD as a Government functionary as of now. As per the provisions of the Electricity Act 2003, the functions are to be separate and entrusted to reorganized entities that have to function as independent bodies.</p> <p>DHPD is once again directed to take urgent steps for complete restructuring and get transferred of asset as per Govt. transfer scheme section 131-33 of the power sector in Arunachal Pradesh.</p>	<p>The Petitioner has submitted that the restructuring of the Department into separate entity independent from the Government is a policy matter to be decided by the Government of Arunachal Pradesh. As directed by the Hon'ble Commission DHPD shall take up the matter for consideration of the Government.</p>
3	<p>Generation</p> <p>DHPD has generated and supplied only 46.50 MU (upto Dec 2018) during FY 2018-19</p>	<p>1) It is submitted that DHPD is making all efforts to maximise generation, however, there are technical and operational constraints as a result of which the HEP's are not operating at</p>


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	<p>against saleable energy of 198.48 MU, which is quite low. It indicates that the Performance is poor. DHPD shall take necessary steps to improve the performance of the stations and generate additional power. The DHPD shall make an all-out effort to increase the present generation at least by 19.85 MU (i.e. 10% of saleable energy 198.48 MU) more in the present generation energy. This will facilitate the additional generation with nonconventional source within the state. Further, this low-cost energy shall not only reduce the burden of APDOP of buying energy at higher cost but shall also give relief to the consumers of the state. The DHPD shall submit a report to the Commission on the steps proposed to be taken in this regard with improvements carried out, within Six months</p>	<p>desired capacity.</p> <p>ii) Most of the HEPs are operating in isolation mode on need basis and not connected to grid. The energy generated from the HEPs are catering to the energy requirement of local area. Hence, generation depends on the load demand of the connected area.</p> <p>iii) Further, there are redundant capacities to meet the energy requirement in case of failure of any unit.</p> <p>iv) The availability of water discharge has reduced due to deforestation, global warming apart from the water diversion by PHE & Irrigation Departments.</p> <p>v) Frequent landslides damage the HEPs and disrupt generation.</p> <p>vi) Steps are being taken to connect the HEPs to the grid to improve generation. Hydel stations namely Nuranang (3 x 2000 kW), Kitpi Ph-1 (3 x 500 kW), Kitpi Ph-II (2 x kW), Mukto (3 x 2000 kW) and Nuranang Ph-11 (2 x 500 kW) have been synchronised to grid since 2023. Also Kambang hydel is being tried to sync with the grid line. However due to technical glitches it is still in the process. Similar grid connection of potential hydel stations are being studied for further action. Besides R&M works and special repair have been taken up at various hydel stations. Also AOMC is being proposed for Tago and Kambang at govt level.</p> <p>vii) Meanwhile during the review meeting held at zonal office, Field Officers have been directed to take steps for increment of the present generation of their respective hydel station by at least 10% from the generation data of last financial year and they have also been directed to study the Feasibility of Grid Connection within their concerned jurisdiction as reflected in the Minutes of Meeting (MoM) being enclosed for your reference.</p>
<p>4</p>	<p>The Commission hereby also directs the Petitioner/ DHPD to keep project wise data's such as all ongoing projects updated as estimated cost, revised Capital cost if any, progress physical & financial, O&M expenses (Employees, R&M and AG), Additional capitalization etc. that shall have to be submitted along with the petition supported by documents.</p>	<p>The Petitioner has submitted that DHPD will collect and compile regulatory details regarding the ongoing hydel stations and will be submitting its detail particularly for hydel stations above one MW as and when it is filed at commission's office. The field officers have been asked to provide Project wise data's such as all ongoing project's updated estimated cost, revised Capital cost if any, progress (physical & financial), O&M expenses (Employees, R&M and AG). Additional capitalization etc, supported by</p>


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		documents in the review meeting held at zonal office.
5	<p>For newly Hydro Electric Plant to be commissioned</p> <p>For newly Hydro Electric Plants below 1 MW, the petitioner should get tariff fixed for entire useful life of plant on levelised basis by adopting the Generic tariff order published by the Commissioned whose COD is March,2018 or by filling separate for project specific tariff as per APERC RE Regulation,201S and its amendment time to time. For 1 MW and above upto 25 MW project specific Tariff. Petitioner is hereby directed to keep all data updated like estimated & completed cost, Equity, Debt, O&M expenses (Employees, R&M and AG), Additional capitalization etc. and to be submitted along with the petition. Also, it has been informed to the department that no tariff has been determine for the following SHP commissioned in FY 18-19, whose project data not available with the Commission</p> <p>a) Payu MHS at Koloriang; b) Mukto MHS; c) Subbung.</p>	<p>It is submitted that the details for the above observation has already been met and tariff order for the hydel stations named above have been issued by commission on 31/12/2024. Further it was also discussed in the review meeting, as may be perused from the MoM and decided that for 1 MW and above project specific levelised Tariff is required. Therefore Field Officers are to prepare and submit the tariff petition for all such projects themselves in consultation with the consultants. In this regard all field officers have been directed to maintain the prescribed amount as notified by APERC from time to time which can be viewed from their website (https://apersc.nic.in) as petition fee, as and when tariff petition for bydel stations above. 1MW is being filled at APERC</p>
6	<p>Accounting of O&M expenses</p> <p>The Deptt. is directed to maintain project wise accounting of expenses in respect of the following: a) Expenses on salary and wages of the staff working in that generating station. b) Expenses incurred on repair & maintenance of that generating station. c) Any other general expenses incurred on the staff of that generating station. These project wise details should be provided in the tariff Petition from next year onwards as these are regulatory requirements.</p>	<p>The Petitioner has submitted that all divisional offices have been directed vide letter no HPD-WZ-110029/1/2021/307-32 Dtd 10-01-2025 to maintain project wise details henceforth. Further the matter was discussed in the review meeting held at zonal office under Western Zone on 17th April 2025 and under Eastern Zone on 22nd April 2025 as may be observed and perused from MOM being enclosed respectively.</p>
7	<p>O&M Activities</p> <p>The Commission suggests that the O & M activities of major Power Station i.e. above one MW capacity may be carried out on PPP Model (Public Private Partnership Model). Initially one or two Power Plant of sizable capacity, which is under performing, may be taken up on experiment basis to carry out O&M activities and its performance shall be monitored. DHPD is requested to prepare a blue print of such PPP Model Project and furnish the same to APERC for appraisal and comment.</p>	<p>The Petitioner has submitted that there is no policy for PPP model for long term duration and that is why DHPD will partner with private party for AOMC for short term duration. DHPD has taken up the proposal of carrying out O&M activities of two hydel stations above one MW capacity viz. Tago (4500 kW) and Kambang MHS (6000 kW) under AOMC (Annual Operation Maintenance Contract) with GoAP. In this regard, a committee was formed within DHPD by CE (EZ), DHPD vide No. HPD-EZ-14011/7/2022-CE(EZ)/DHPD/1640-44 Dtd 25/02/2025 with himself being the chairman along with six other senior officers as its members and SSW (EM/WZ) being the nodal officer to coordinate the discussion in the matter. The circles and/divisions were asked to prepare NleT for respective hydel stations namely Tago and Kambang ensuring compliance of the points discussed during the meeting and submission</p>


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		to zonal office on or before 24 th March 2025 vide No.HPD-EZ-14011/7/2022-CE(EZ)/DHPD/1762-72 Dtd 10/03/2025.
8	<p>Reassessment of the value of the existing assets of DHPD.</p> <p>The Deptt. is directed to reassess the value of its assets and provide the correct asset value to the Commission in the next petition. If the Deptt. feels proper and necessary, it is suggested that Deptt. may seek the services of professional valuers & estimators in this field for assessing the proper value of the assets of the Deptt. as it is a one-time exercise and it is in the benefit of the Deptt. that it should be done with fair amount of accuracy. Project wise asset registers, containing land details, civil structures, dams, spill ways, power house buildings, office buildings, the machinery, and equipment together with costs shall be prepared in standards format and shall be submitted the same to the Commission</p>	<p>The Petitioner has submitted that as directed by the Commissioned is making effort to seek the advice of professional valuers & estimators for assessing the proper value of the assets of the department. However, since it will involve fund requirement for carrying out the exercise hence the proposal has been sent to GoAP for consideration vide e-file letter no HPD-WZ-11029/1/2021/320760/2025 Dtd 19-03-2025</p>
9	<p>Hydro Power Stations with " Nil" Power Generation</p> <p>The Commission received a status sheet from DHPD (Refer Annexure 1) where it is observed that 41 numbers of plant totalling to an installed capacity of about 14.25 MW has been shown to be generating nil energy over the past few years. Hence, the Commission observe an urgency to recover at least those plants which has nil generation or operating below its rated capacity due to some minor repair replacement/refurbishment of components/parts/works etc.</p> <p>The Commission hereby directs DHPD to take up the recovery of those plants and present it to the Commission along with the commercial justification, sources of funding, annual targets, and time lines of restoration of generation.</p>	<p>The Petitioner has submitted that often times due to natural calamities like landslides, Flash Floods, reduction in discharge and flooding of river, power house and hydel equipment's are damaged beyond economical repair. The action taken on the noted 41 no's of hydel stations in the Tariff Order FY 2019-20 is hereby annexed as (A. B. C & D) listed as (A) Hydel Station renovated and put into operation-9 No's. (B) Hydel Station under R&M, Derating & Augmentation-11 No's. (C) Hydel Stations proposed for write off sanction-7 No's and (D) Hydel Station which has been accorded write off sanction 14 No's. DHPD is making all efforts to make the plants operational in technically & economically feasible cases. However, those plants which are beyond economical repairs are processed for write off sanction from the competent authority. Meanwhile the field officers have been directed to submit estimates to repair plants which has nil generation or operating below its rated capacity due to some minor repair/replacement refurbishment of components/parts/works etc during the review meeting as may be seen from MoM being enclosed</p>
10	<p>Reassessment of Installed Capacity of the existing stations</p> <p>It is felt that the generation from the hydro stations does not commensurate with the installed capacity of the projects. As clarified by the DHPD on various occasions, one of the reasons stated for this was that many of the projects are very old and the capacity of the machinery has got de-rated due to ageing. Moreover, over a period of time the hydrology of the project has also changed leading to reduction in water discharge and hence</p>	<p>The Petitioner has submitted that DHPD has directed all the field officers to re assess the condition of the hydel stations vide letter no HPD-WZ-11029/1/2021/307-32 Dtd 10-01-2025. It may be noted that 14 no's of hydel station under chief engineer (EZ) had already been approved for write off sanction during the tariff petition filed for FY 2024-25 and further 4 no's of additional hydel stations has been sanctioned for write off as on date (Annexure-E). Efforts are being made to obtain write off sanction for further 7 no's of hydel station under chief engineer (WZ) (Annexure C) as these plants are</p>


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	<p>reduction in the generating capacity. It was also stated that during earlier day's one machine in the station used as standby but whose capacity is added in the installed capacity. In view of the above the DHPD is directed to reassess the actual generating capacity of all such projects and re-fix the installed capacity and get it approved.</p>	<p>not in operation since many years due to various reasons like flood damage, electromechanical units defect, low discharge due to tapping of water by other govt agency etc and hence beyond economical repair. Meanwhile during the review meeting as may be perused from the MoM enclosed, the Field Officers were directed to reassess the actual generating capacity of all their concerned projects and if required re-rate the installed capacity and submit a report with such proposal through proper channel for obtaining approval from GoAP. They are also directed to submit list of defunct hydel stations for write off sanction with factual justification.</p>
11	<p>Depreciation for FY 2019-20</p> <p>The Commission has been requesting the details of GFA from DHPD but didn't receive any input till date. Further, Commission has worked out depreciation based on limited data available with the Commission and accordingly approved the cost as calculated. The Commission hereby directs the DHPD to re-evaluate the project asset value by deploying the professional value and estimator for all the old plants whose capital is not available with the department so that a realistic depreciation can be calculated. The Commission also directs the DHPD to do re-valuation exercise of the old plants whose project life obtained more than thirty-five years and furnish the same to the Commission</p>	<p>The Petitioner has submitted that as directed by Commission, DHPD is making effort to seek the advice of professional valuers & estimators for assessing the proper value of the assets of the department. However, since it will involve fund requirement for carrying out the exercise. Hence the proposal is being sent to GoAP for consideration as already enumerated in reply to query no 4 above.</p>
12	<p>Training and skill development of the employees of DHPD</p> <p>The Deptt. is directed to give top most priority to training and skill development of O&M staff and the supervisory staff (JEs and AEs) of the generating stations so as to increase the longevity & efficiency of the machines. The Deptt. should work out a well thought plan of imparting training in phased manner and allocate necessary fund in its annual budget for the same. Further to the above, Commission also observes that DHPD may undertake training/skill development for technicians/un-skilled worker to improve plant availability and performance.</p>	<p>The Petitioner has submitted that as already enumerated in reply for query no 7 above that DHPD has taken up the proposal of carrying out AOMC (Annual Operation Maintenance Contract) of certain hydel stations above one MW capacity viz Tago (4500 kW) and Kambang MHS (6000 kW) with GoAP. Once AOMC is approved by the Govt of AP, training & skill development of O&M staff and the supervisory staff will be incorporated in the agreement. At the same time this issue was discussed during the review meeting as may be seen from MoM enclosed and Field Officers concerned were directed to send their operator of non-functioning hydel stations to new hydel stations which are on the verge of commissioning for training purposes within their jurisdiction so that the operator acquires skills which would be handy when the non-functioning hydel station where he is originally posted is functional again.</p>
13	<p>Scheduling of generation from the Deptt.'s Hydro Stations</p> <p>The Deptt. is directed to start scheduling the generation from its generating stations for proper and optimum utilization of the generation by the Deptt. of Power. In this regard, the DHPD shall have to co-ordinate</p>	<p>The Petitioner has submitted that scheduling of generation for standalone and isolated hydel stations is not feasible as these are primarily mini, micro hydel stations built for welfare aspect and hence the loading pattern is also not high due to which it is put into operation only on need basis for certain hours daily. Such hydel stations have no commercial</p>


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	<p>with SLDC, which is being upgraded to have communication with the plants in Generation with SLDC. The DHPD need to update the Commission.</p>	<p>ambition and are basically built to electrify border villages under various government programs. However, in many places it is not feasible due to unrobust T&D system. Also, due to absence of dedicated evacuation line, frequency of line fault is very high which hinders generation. Added to this, insufficient skilled operator and unavailability of readily available spares, ageing of plants etc leads to frequent plant outages and it takes time to restart the system, however scheduling of hydel stations connected or being connected to grid will be carried out after installation of metering and communication system which will be taken up during this financial year. Meanwhile during the review meeting, the field officers were asked to submit their proposal through proper channel for projection in BE 2025-26 for hydel stations feasible for scheduling but lacking in equipment's for facilitating scheduling.</p>
14	<p>Fixing of project wise generation target</p> <p>The Deptt. is also directed to fix monthly/quarterly target of generation project wise based on various factors like the seasonal availability of the water, condition of the machines etc. This will also help the Deptt. in self-assessment of its performance. Details of Project wise target and actual generation should be incorporated in the next tariff petition of the Deptt.</p>	<p>The Petitioner has submitted that DHPD has conducted a review meeting under CE(WZ) on 17th April 2025 and CE(EZ) on 22nd April 2025 wherein discussion regarding the fixing of project were directed to take steps for increment of the present generation of their respective hydel station by at least 10% from the generation data of last financial year as may be perused from the MoM enclosed.</p>
15	<p>Raising of bills to Deptt. of Power</p> <p>DHPD directed to immediately confirm if it is raising monthly bills to AP DoP for the energy consumed by them at the tariff fixed by the Commission w.e.f 2013-14 onwards. On the basis of joint meter readings or as mutually decided by both the department for such station where meter are not installed. Persons authorized to sign the joint meter reading, format of the bill etc. should be worked out between the Chief- Engineers of DHPD and Chief Engineer's DOP to avoid any kind of disputes.</p>	<p>The Petitioner has submitted that bills are being raised at the field level with their counterpart from DoP and JMR (Joint Meter Reading) is also being done at hydel stations where the provision exists. However, for hydel stations which lack meters for carrying out JMR, the field officers concerned have been directed to frame estimates for the necessary meters required for carrying out the exercise.</p> <p>The same was also discussed during the review meeting and it was reiterated to the field officers to raise the bill and to submit estimates for the metering system required for conducting JMR for hydel stations in case of non-availability of these equipment's.</p>
16	<p>Data Deficiencies and submission of Tariff Petition.</p> <p>The Deptt. is directed to start scheduling the generation from its generating stations for proper and optimum utilization of the generation by the Deptt. of Power.</p>	<p>The Petitioner has submitted that reply to this query is enumerated in query no 13 above.</p>
17	<p>The Commission observed through the previous petitions filled that the various activities are being taken by the petitioner/DHPD and listed in their petition as Annexure 'Outlays and Expenditure of On-Going Schemes and hydel improvement,</p>	<p>The Petitioner has submitted that available records are being submitted herewith as (Annexure-F&G) consisting of 19 no of schemes under CE(WZ) and 29 no of schemes under CE(EZ) with its respective enclosures.</p>


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	special repair (Hydel Improvement), R&M works etc. for different plants in operation. The petitioner did not furnish any proposal along with technical details, expenditure etc. for the said projects for information/ accounting to the Commission.	
18	Filing of the Petition in time Tariff petition with all the required data in the formats shall be submitted by 30th November of every year.	The Petitioner has submitted that DHPD shall make all efforts to file the next petition for FY 2026-27 by within 30 th November 2025.

Commissions View:

- 6.2 The Commission notes with concern the Petitioner's continued non-compliance with the majority of the directives issued in preceding years. However, as recorded in the Record of Proceedings (ROP) dated 15.05.2025 during the admission hearing of the present petition, the Commission sought clarification from the Petitioner regarding the status of compliance with such earlier directives. In response, the Petitioner submitted that it is undertaking all necessary efforts to ensure adherence to the directions issued by the Commission. The Commission, during the said hearing, directed the Petitioner to furnish a comprehensive compliance report on or before 30th November 2025.
- 6.3 The Commission further acknowledges the Petitioner's demonstrated intent to improve the overall operational efficiency of its department, as demonstrated by the initiatives undertaken and responsibilities delegated to specific individuals, as recorded in the Minutes of Meeting (MoM). Nevertheless, the Commission is of the considered view that the Petitioner must expedite its efforts and establish definitive timelines to accomplish the identified objectives in a time-bound manner.
- 6.4 Accordingly, the Petitioner is hereby directed to prepare and submit detailed action plans with defined timelines and to furnish quarterly progress reports to the Commission. As stipulated during the admission hearing, the Commission shall review the Petitioner's compliance with the directives prior to the submission of the ensuing tariff petition for the Financial Year 2026–27.


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CHAPTER 7: Directives

- 7.1 The Petitioner is directed to strictly adhere to the timeline for filing tariff petition complete in all aspects with all required data in prescribed format by 30th November of each year. In this regard the Petitioner is directed to submit Petition for FY 2026-27 complete in all aspects by 30th November 2025.
- 7.2 The Petitioner is directed to adhere to the Capacity Utilization Factor (CUF) approved by the Commission and shall operate the plants on must run basis. However, in the event that the petitioner is unable to achieve the 45% CUF due to external constraints beyond their control, other than force majeure events, the petitioner shall be entitled to claim the benefits under the "Must-Run Status" as per the Electricity (Promotion of Generation of Electricity from Must-Run Power Plants) Rules, 2021, and its amendment.
- 7.3 The Purchaser of the generated energy of DHPD i.e APDOP has already been allowed purchase of power from petitioner and accordingly provisions have been made in ARR of APDOP for FY 2025-26. Therefore, the Petitioner is directed to raise bill based on actual energy transferred to the distribution licensee i.e. APDOP in accordance to the tariff approved by the Commission.
- 7.4 The petition is hereby disposed of in accordance with the aforesaid directions.
- 7.5 This order shall be effective from **1st April 2025** and shall remain in force till the next tariff order issued by the Commission.

Date: 17.07.2025

Place: Itanagar

Sd/-

Shri Nich Rika

Member(Law)

Sd/-

Shri R.K. Joshi

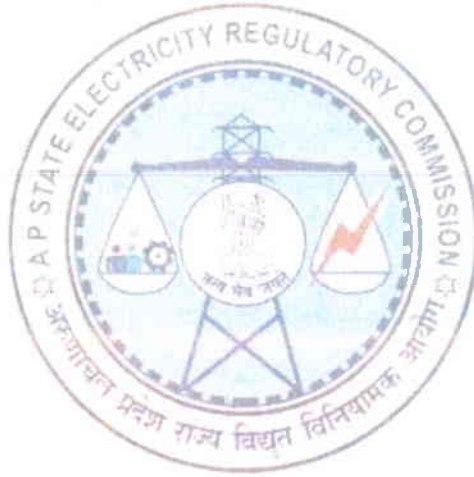
(Chairperson)


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Annexure-1

Table 18 List of Participants during public hearing

S.No	Name	Designation
1	Mr.Rubu Opo	SSW(EM),DHPD
2	Mr.Anirban Hazra	Consultant DHPD
3	Mr.Sayank Mondal	Consultant DHPD
4	Mr.Habung Opo	JE(DHPD)




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Annexure 2

Table 19 List of existing HEPs of DHPD against which write off has been sanctioned by GoAP

S.NO	Name of HEP	Installed Capacity(kW)	Firm Capacity(kW)	COD	Remarks
1	Along	3x100	300	2015	Write off sanctioned vide Memo No.HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd.24 th April 2024
2	Mechuka	6x25 +1x250	150	2015	Write off sanctioned vide Memo No.12015/21/2023/2084-90 Dtd 15/06/2023
3	Kote MHS	1 x 50	50	2013	Write off sanctioned vide Memo No.HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd.24 th April 2024
4	Sika MHS at Likor	1x15	15	2010	Write off sanctioned vide Memo No.HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd.24 th April 2024




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Annexure 3

Table 20 Approved generation for the 91 SHP's considering 45% CUF for FY 2025-26

Sl.No	Name of the Station	Units	Installed Capacity(kW)	Firm Capacity(kW)	Year of Commissioning (FY)	Projected Generation(kWh)@45% CUF(kWh)	Net Generation @1%Aux consumptn(kWh)
Western Zone(WZ)							
Tawang District							
1	Chellengkang Ph-I	1 x 30	30	30	2004-05	118260.00	117077.40
2	Chellengkang Ph-II	1 x 30	30	30	2008-09	118260.00	117077.40
3	Shakti Nallah	2 x 50	100	50	2008-09	197100.00	195129.00
4	Thimbu	2 x 50	100	100	2009-10	394200.00	390258.00
5	Khet	2 x 50	100	100	2009-10	394200.00	390258.00
6	Tsechu Nallah	2 x 50	100	100	2010-11	394200.00	390258.00
7	Mago MHS	2 x 50	100	100	2014-15	394200.00	390258.00
8	Nuranang	3 x 2000	6000	6000	1996-97	23652000.00	23415480.00
9	Kitpi Ph-I	3 x 500	1500	1500	1977-78	5913000.00	5853870.00
10	Kitpi MHS Ph-II	2 x 1500	3000	3000	2008-09	11826000.00	11707740.00
11	T. Gompa	1 x 50	50	50	2001-02	197100.00	195129.00
12	Bongleng	2 x 50	100	100	2009-10	394200.00	390258.00
13	Bramdhongchung Ph-II	2 x 50	100	100	2010-11	394200.00	390258.00
West Kameng District							
14	Rahung	3 x 250	750	500	1972 - 73	1971000.00	1951290.00
15	Dirang	4 x 500	2000	1500	1977 - 78	5913000.00	5853870.00
16	Saktangrong MHS	3 x 100	300	300	2011-12	1182600.00	1170774.00
17	Zhongdongrong	2 x 500	1000	1000	2016-17	3942000.00	3902580.00
18	Sessa	3 x 500	1500	1500	1992-93	5913000.00	5853870.00
19	Rupa	2 x 100	200	100	1997 - 98	394200.00	390258.00
20	Dokumpani	1 x 30	30	30	2000-01	118260.00	117077.40
21	Domkhong	2 x 500	1000	1000	2008-09/2019-20	3942000.00	3902580.00
22	Ankaling	1 x 30	30	30	2009-10	118260.00	117077.40
23	Dikshi	2 x 30	60	60	2010-11/2019-20	236520.00	234154.80
24	Khadiyabey	2 x 100	200	200	2011-12	788400.00	780516.00

[Signature]

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25	Jigaon	2 x 50	100	100	2016-17	394200.00	390258.00	
Pakke Kessang District								
26	Pakke Kessang	1 x 30	30	30	2001-02	118260.00	117077.40	
East Kameng District								
27	Pacha MHS	2 x 1500	3000	3000	2008-09	11826000.00	11707740.00	
28	Pakoti	2 x 50	100	100	2010-11	394200.00	390258.00	
29	Patta Nallah	2 x 50	100	100	2010-11	394200.00	390258.00	
30	Watte Mame	1 x 50	50	50	2010-11	197100.00	195129.00	
31	Kade Nallah	1 x 50	50	50	2010-11	197100.00	195129.00	
Kurung Kumey District								
32	Koye	1 x 50	50	50	2009-10	197100.00	195129.00	
33	Paya MHS at Hiya	2 x 50	100	100	2011-12	394200.00	390258.00	
Kra Dadi District								
34	Chambang	1 x 30	30	30	2009-10	118260.00	117077.40	
Keyi Panyor District								
35	Mai Ph-I	4 x 500	2000	1500	1977-78	5913000.00	5853870.00	
36	Mai Ph-II	2 x 500	1000	500	1982-83	1971000.00	1951290.00	
37	Tago	3 x 1500	4500	3000	1992-93	11826000.00	11707740.00	
Upper Subansiri District								
38	Sippi	2 x 2000	4000	4000	2008-09	15768000.00	15610320.00	
39	Pinto Karo MHS	1 x 25	25	25	2011-12	98550.00	97564.50	
40	Sikin Karo	2 x 100	200	200	2011-12	788400.00	780516.00	
41	Sinyum Koro	2 x 50	100	100	2011-12	394200.00	390258.00	
42	Dulom (Daporijo)	4 x 100	400	300	1981-82	1182600.00	1170774.00	
43	Ayingmuri MHS	2 x 125	250	250	2012-13	985500.00	975645.00	
Eastern Zone (EZ)								
West Siang District								
44	Pagi (Basar)	2 x 50	100	50	1972-73	197100.00	195129.00	
45	Ego-Echi (Dali)	4 x 100	400	400	1987-88	1576800.00	1561032.00	
46	Liromoba	2 x 1000	2000	2000	2008-09	7884000.00	7805160.00	
47	Kamba MHS	3 x 2000	6000	6000	2010	23652000.00	23415480.00	
48	Yingko Sikong at Rapum	1 x 50	50	50	2009-10	197100.00	195129.00	
49	Sirikorang MHS	2x250	500	500	2013-14	1971000.00	1951290.00	
50	Solegomang MHS	1 x 50	50	50	2011-12	197100.00	195129.00	

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Lower Dibang Valley District									
Dibang Valley District									
51	Echi Ahfra at Anaya	2x200	400	400	2005-06	1576800.00		1561032.00	
52	Tah Ahfra Ph-I and Ph-II at Angolin	1x50+1x50	100	100	2001-02 2009-10	394200.00		390258.00	
53	Chini Ahfra at Amuli	1x250	250	250	2001-02	985500.00		975645.00	
54	Awapani Ph-II at LG	2 x 250	500	250	2005-06	985500.00		975645.00	
55	Echito Nallah at Dambien	2 x 20	40	40	2010-11	157680.00		156103.20	
56	Rupapani at Punli	2 x 20	40	40	2010-11	157680.00		156103.20	
57	Chu Nallah at Mipi	2 x 15	30	30	2011-12	118260.00		117077.40	
58	Awapani at Gepuline	2 x 250	500	500	2014-15	1971000.00		1951290.00	
Changlang District									
59	Jongkey Nallah	1 x 50	50	50	2011-12	197100.00		195129.00	
60	Chicklong	2 x 75	150	150	2011-12	591300.00		585387.00	
61	Tissue	4 x 100	400	300	1986-87	1182600.00		1170774.00	
62	Tinning	2 x 25	50	50	2010-11	197100.00		195129.00	
Upper Siang District									
63	Sirnyuk SHP	2x1000	2000	2000	1996-97	7884000.00		7805160.00	
64	Gosang (siri) MHS	2 x 250	500	500	2011-12	1971000.00		1951290.00	
65	Selli MHS at Geku	2x 250	500	500	1994-95	1971000.00		1951290.00	
66	Yingkiang Ph-I MHS	3x50	150	150	1980-81	591300.00		585387.00	
67	Yingkiang Ph-II MHS	2x100	200	200	1992-93	788400.00		780516.00	
68	Kopu MHS at Tuting	1x250	250	250	2004	985500.00		975645.00	
69	Sikut/ Tuting MHS	2x50	100	100	1984-85	394200.00		390258.00	
70	Sillingri (Gelling) MHS	1x50	50	50	2008-09	197100.00		195129.00	
71	Ngaming MHS	1x50	50	50	2008-09	197100.00		195129.00	
72	Singa MHS	1x30	30	30	2008-09	118260.00		117077.40	
73	Mayung	1x5	5	5	2011	19710.00		19512.90	
Anjaw District									
74	Mati Nallah	2x250+1x50	550	500	2004-05	1971000.00		1951290.00	
75	Yapak Nallah	2x100	200	200	2005-06	788400.00		780516.00	
76	Kebitho	1x30	30	30	2004-05	118260.00		117077.40	
77	Kaho	1 x 10	10	10	2004-05	39420.00		39025.80	
78	Krawti Nallah	2 x 50	100	100	2011	394200.00		390258.00	
79	Teeapani MHS	2 x 250	500	500	2009-10	1971000.00		1951290.00	

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80	Langpani MHS	2 x 200	400	400	2011-12	1576800.00	1561032.00
81	Kachopani MHS	2 x 100	200	200	2014-15	788400.00	780516.00
82	Maipani MHS	2 x 30	60	60	2010-11	236520.00	234154.80
Tirap District							
83	Charju	3 x 200	600	600	1984-85	2365200.00	2341548.00
84	Thirajju	4 x 250	1000	1000	1977	3942000.00	3902580.00
85	Sumhok Nallah	2 x 50	100	100	2009-10	394200.00	390258.00
Siang District							
86	Yembung	4 x 500	2000	2000	1984	7884000.00	7805160.00
East Siang District							
87	Rina	2 x 1000	2000	2000	2008-09	7884000.00	7805160.00
88	Pasighat	2 x 100	200	100	1972	394200.00	390258.00
89	Silli	1 x 30	30	30	2001-02	118260.00	117077.40
Lohit District							
90	Taifragram	1 x 250	250	250	1984-85	985500.00	975645.00
91	Doorah Nallah	2x100	200	200	2013-14	788400.00	780516.00
		3x100	300	300		1182600.00	1170774.00
Total			58940	54890		215193780.00	213041842.20



(Signature)

Secretary
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