

PETITION FOR APPROVAL

OF

ANNUAL PERFORMANCE REVIEW

FOR

FY 2024-25

UNDER SECTION 62 & 64 OF THE ELECTRICITY ACT 2003

Submitted by: Department of Power, Arunachal Pradesh



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List of Abbreviations used

AGBPP Assam Gas Based Power Plant

AGTCCPP Agartala Gas Thermal Combine Cycle Power Plant

DoP,AP Arunachal Pradesh Department of Power

APSERC Arunachal Pradesh State Electricity Regulatory Commission

ARR Aggregate Revenue Requirement
AT&C Aggregate Technical and Commercial

BPL Below Poverty Line

CAGR Compound Annual Growth Rate

DG Diesel Generating

DHPD Department of Hydro Power Development

FY Financial Year

HEP Hydro Electric Project

HT High Tension

IPP Independent Power Producer

KJP Kutir Jyoti Program

KV Kilo Volt
KW Kilo Watt
LT Low Tension
MU Million Unit
MW Mega Watt

NLDC National Load Dispatch Centre
NHPC National Hydro Power Corporation
NTPC National Thermal Power Corporation
NEEPCO North Eastern Electric Power Corporation
NERLDC North Eastern Regional Load Dispatch Centre
NERPC North Eastern Regional Power Committee

O&M Operation and Maintenance
OTPC ONGC Tripura Power Company
PGCIL Power Grid Corporation of India Ltd
RLDC Regional Load Dispatch Centre

REDC Regional Load Dispatch Centre R&M Repair and Maintenance

SHEP Small Hydro Electric Project
SLDC State Load Dispatch Centre
SPSU State Public Sector Undertaking
T&D Transmission and Distribution

TGNA Temporary General Network Access

GNA General Network Access

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CHAPTER-I: INTRODUCTION

1.1 About Arunachal Pradesh Department of Power

The Arunachal Pradesh Department of Power (DoP,AP) was created in 1992 by separating from the Arunachal Pradesh Public Works Department (APPWD). At that time, the entire power management including generations, transmissions, and distributions was the responsibility of the DoP,AP. In the year 2004, a Department of Hydro Power Development (DHPD) was created by bifurcating from the DoP,AP and thereby separating the generation from the purview of the DoP,AP. The DoP,AP, a Government Department, functioning under the Ministry of Power, Government of Arunachal Pradesh is the Deemed Distribution Licensee of Arunachal Pradesh as per provision of Section 14 of the Electricity Act, 2003. The DoP,AP has 300264 consumers and annual energy consumption was about 673.41 MUs in the FY 2023-24.

1.2 Number of Consumers

The DoP,AP has at present 300264 consumers in different categories. Table 1.2A shows the number of consumers in the last 5 years and using the Compound Annual Growth Rate (CAGR) of the preceding 5 years, DoP,AP has determined the number of consumers for the FY 2024-25.

Table1.2A: Number of consumers for FY 2024-25

					122	Estimated					
SL No.	Consumer Category	FY 2019- 20	FY 2020- 21	FY 2021- 22	FY 2022- 23	FY 2023- 24	CAGR (5 Years) *	Current Year 2024- 25			
		I	II	III	IV	v	0	VI			
Α			НТ	& EHT Cate	gory						
1	Non-Commercial Consumers (Domestic)										
	AC 50Hz,3-Phase, 11KV	88	96	109	121	128	9.82%	141			
	AC 50Hz,3-Phase, 33KV	4	4	4	4	4	0.00%	- 4			
2	Commercial Consumers (Non-Industrial)										
	AC 50Hz,3-Phase, 11KV	209	244	276	372	460	21.80%	560			
	AC 50Hz,3-Phase, 33KV	6	6	11	13	14	23.59%	17			
3	Public Lighting and Water Supply Consumers										
	AC 50Hz,3-Phase, 11KV	19	20	21	9	12	0.00%	12			
	AC 50Hz,3-Phase, 33KV	0	0	0	0	0	0.00%	(
4	Agricultural Consumers										
	AC 50Hz,3-Phase, 11KV	0	0	5	5	5	0.00%				
	AC 50Hz,3-Phase, 33KV	1	0	0	0	0	0.00%				
5	Industrial Consumers										
	AC 50Hz,3-Phase, 11KV	59	62	65	76	85	9.56%	9.			
	AC 50Hz,3-Phase, 33KV	27	27	26	31	33	5.14%	3			
	AC 50Hz,3-Phase, 132 KV	3	3	3	3	3	0.00%				
6	Bulk Mixed Consumers	5									
	AC 50Hz,3-Phase, 11KV	156	159	138	173	210	7.71%	22			
	AC 50Hz,3-Phase, 33KV	15	13	32	15	14	0.00%	1			

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				Actual				Estimated		
SL No.	Consumer Category	FY 2019- 20	FY 2020- 21	FY 2021- 22	FY 2022- 23	FY 2023- 24	CAGR (5 Years) *	Current Year 2024- 25		
		I	II	III	IV	V		VI		
	AC 50Hz,3-Phase, 132 KV	1	1	1	1	1	0.00%			
В			Low	Voltage Cate	gory		1,			
1	Non-Commercial Consumers (Domestic)									
	AC 50Hz,1-Phase, 230 Volt	178813	188148	195620	197129	198192	2.61%	20335		
	AC 50Hz,3-Phase, 400 Volt	2706	2844	3197	3538	3582	7.26%	384		
	KJP & BPL connection	64273	66058	64369	63085	61791	0.00%	6179		
2	Commercial Consumers (Non-Industrial)									
	AC 50Hz,1-Phase, 230 Volt	25098	26034	27594	29675	30960	5.39%	3262		
	AC 50Hz,3-Phase, 400 Volt	1914	2073	2344	2486	3016	12.04%	337		
3	Public Lighting and Water Supply Consumers									
	AC 50Hz,1-Phase, 230 Volt	1202	1118	1198	948	864	0.00%	86		
	AC 50Hz,3-Phase, 400 Volt	190	185	235	239	271	9.28%	29		
4	Agricultural Consumers									
	AC 50Hz,1-Phase, 230 Volt	4	4	6	8	10	25.74%			
	AC 50Hz,3-Phase, 400 Volt	16	13	13	7	8	0.00%			
5	Industrial Consumers					100				
	AC 50Hz,1-Phase, 230 Volt	44	48	80	75	65	10.25%			
	AC 50Hz,3-Phase, 400 Volt	163	173	162	169	178	2.23%	1		
6	Temporary Consumer									
	LT/HT	90	194	240	265	358	41.22%	5		
	Total	275101	287527	295749	298447	300264		30804		

The summary of the approved number of consumers in Tariff Order dated 26.07.2024 and estimated Number of consumers for FY 2024-25 is given below:

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	Table 1.2B; Nul	mber of consumers for FY	2024-25							
		Approved in Tariff Order 26.07.2024	Estimated	Deviation FY 2024-25						
SL No	Consumer Category	FY 2024-25	FY 2024-25							
		I	п	I-II						
Α		C & EHT Category								
1	Non-Commercial Consumers (Domestic)								
	AC 50Hz,3-Phase, 11KV	141	141							
	AC 50Hz,3-Phase, 33KV	4	4							
2	Commercial Consumers (Non-	Industrial)								
	AC 50Hz,3-Phase, IIKV	557	560	-						
	AC 50Hz,3-Phase, 33KV	19	17							
3	Public Lighting and Water Supply	Consumers								
	AC 50Hz,3-Phase, 11KV	9	12	_						
	AC 50Hz,3-Phase, 33KV	0	0							
4	Agricultural Consumers									
	AC 50Hz,3-Phase, 11KV	5	5							
	AC 50Hz,3-Phase, 33KV	0	0							
5	Industrial Consumers									
	AC 50Hz,3-Phase, 11KV	93	93							
	AC 50Hz,3-Phase, 33KV	35	35							
	AC 50Hz,3-Phase, 132 KV	3	3							
6	Bulk Mixed Consumers									
	AC 50Hz,3-Phase, 11KV	188	226	-3						
	AC 50Hz,3-Phase, 33KV	15	14							
D	AC 50Hz,3-Phase, 132 KV 1 1 (
В	Low Voltage Category									
1	Non-Commercial Consumers (Domestic)									
	AC 50Hz,1-Phase, 230 Volt	217949	203356	1459						
	AC 50Hz,3-Phase, 400 Volt	4200	3842	35						
	KJP & BPL connection	65652	61791	386						
2	Commercial Consumers (Non-Indu									
	AC 50Hz,1-Phase, 230 Volt	33198	32628	57						
	AC 50Hz,3-Phase, 400 Volt	2806	3379	-57						
3	Public Lighting and Water Supply	Consumers								
	AC 50Hz,1-Phase, 230 Volt	948	864	8						
	AC 50Hz,3-Phase, 400 Volt	289	296							
4	Agricultural Consumers									
	AC 50Hz,1-Phase, 230 Volt	8	13							
	AC 50Hz,3-Phase, 400 Volt	7	8							
5	Industrial Consumers									
	AC 50Hz, 1-Phase, 230 Volt	75	72							
	AC 50Hz,3-Phase, 400 Volt	169	182	. nai						
6	Temporary Consumer									

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	Table 1 2B: N	umberof consumer for FY	2024-25		
		Approved in Tariff Order 26.07,2024	Estimated	Deviation FY 2024-25	
SL No	o Consumer Category	FY 2024-25	FY 2024-25		
		1	П	I-II	
	LT/HT	362	506	-144	
	Total	326733	308048	18685	

1.3 Source of Power

The Generation aspects in the entire state do not come under the purview of DoP,AP. The generation in the state is looked afte by the:

- 1. Department of Hydro Power Development (DHPD)
- 2. Hydro Power Development Corporation of Arunachal Padesh Limited (HPDCAPL)
- 3. Arunachal Pradesh Energy Development Agency (APEDA)
- 4. Independent Power Producers (IPP) (Devi Energies)
- 5. Independent Power Producers (IPP) (Kangteng HydroPower Pvt Ltd) COD 08-05-2024

DoP,AP is softly res ponsible for transmitting and distributing power to the consumers in the state by procuring and re ceiving power from various sources, as per requirement, as elaborated in the following sectors.

1.3.1 Central Sector Ge nerating Stations Allocation: -

Power allocation from Central Sector Generators with whom the DoP, AP already has long term PPA, meets the maj ority of the power requirement. The power p urchased from each generating stations in FY 2 023-24 are given in table 1.3.1.

1.3.1: Power Purchased/ Received from Central Sector Generators								
Sl. No.	Name of Project	Owner	Power Received (MU)					
			FY 2023-24 (Actual)					
1	LOKTAK	NHPC	12.34					
2	KOPILI-I	NEEPCO	11.91					
3	KOPILI-II	NEEPCO	8.35					
4	KHANDONG	NEEPCO	0					
5	Panyor Lower	NEEPCO	72.84					

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Sl. No.	Name of Project	Owner	Power Received (MU)	
		*	FY 2023-24 (Actual)	
	Free Energy Panyor Lower		140.07	
6	DOYANG	NEEPCO	9.48	
7	PARE	Viennoo	25.16	
7	Free Energy Pare	NEEPCO	57.29	
0	KAMENG	VIDDOGG	44.7	
8	Free Energy Kameng	NEEPCO	313.16	
9	AGBPP	NEEPCO	98.46	
10	AGTCCPP	NEEPCO	43.79	
11	PALATANA	OTPCL	122.16	
12	BgTPP	NTPC	206.55	
13	FARAKKA	NTPC	19.7	
14	KAHALGAON	NTPC	9.9	
15	TALCHAR	NTPC	12.66	
		Total	1208.5	
	Tota	I Unit Purchased (MU)	698	
	Total Fi	ree Unit Received (MU)	510.51	

1.3.2 Power from within the State: -

Apart from the Central Sector Share, there are power generators within the state of Arunachal Pradesh from where DoP,AP is receiving/purchasing the entire power generated by them which are mentioned below;

(i) **DHPD**: -

Department of Hydro Power Development (DHPD) presently has an installed capacity of 81.54 MW consisting of different capacities located in different locations of Arunachal Pradesh. DoP,AP received about 56.74 MU during FY 2023-24 from DHPD. As DHPD is under the same state Govt. (AP) and hence, DoP,AP does not pay the cost of power to DHPD and hence may be treated as **Free Power**. If new projects come up then there will be capacity addition.

(ii) Hydro Power Development Corporation of Arunachal Pradesh Limited (HPDCAPL): -

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Hydro Power Development Corporation of Arunachal Pradesh Limited is a State Public Sector Undertaking and has commissioned a 3 MW small hydropower project at Zemithang of Tawang district of Arunachal Pradesh over the Sumbachu River and started commercial operation in the year 2020-21. The generation of this project is entirely utilised by Tawang Electrical Division for Tawang District. The DoP,AP received about 6.37 MU during FY 2023-24 from this project.

(iii) Dikshi Small Hydro Electric Project: -

Dikshi SHP is a small hydropower project with an installed capacity of 24 MW at Rupa of West Kameng District, developed by M/s Devi Energy Ltd, an Independent Power Producer (IPP). This project was commissioned in the year 2019 and declared Date of Commercial Operation (COD) on 19 September 2019. The DoP,AP entered into a Power Purchase Agreement (PPA) with M/s Devi Energy Ltd for purchasing the entire power generated from this project over and above the 10% Free Power Share to the State. DoP,AP purchased about 65.26 MU during FY 2023-24 from this project.

(iv) Khantang Small Hydro Electric Project: -

Khantang SHP is a small hydropower project with an installed capacity of 7.5 MW located at Khantang Nallah, Seru village, Tawang District, developed by M/s Kangteng Hydro Power Pvt Ltd, an Independent Power Producer (IPP). This project was commissioned in the year 2024 and declared Date of Commercial Operation (COD) on 08 May 2024. The DoP,AP entered into a Power Purchase Agreement (PPA) with M/s Kangteng Hydro Power Pvt Ltd for purchasing the entire power generated from this project over and above the 12.6% (8% free power plus the offer of 4.6% additional free power) Free Power Share to the State from the power generated after the moratorium period of 2 (two) years from the date of COD.

(v) Arunachal Pradesh Energy Development Agency (APEDA): -

The Arunachal Pradesh Energy Development Agency is under the Ministry of Power, Govt. of Arunachal Pradesh, which is responsible for the development of Non-Conventional Energy in the state. APEDA has developed various capacities of Solar Power plants across the state with an installed capacity of 4.188 MW. From these plants, DOP,AP has received about 0.55 MU of energy free of cost during the FY 2023-24. Since it is also under the same umbrella of the State Government and therefore, it may also be treated as free power. The energy so received is utilized to partially meet the annual Solar Renewable Power Purchase Obligation (RPO) of the state.

(vi) Diesel Generation: -

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DG sets are purely a temporary arrangement to meet any emergency requirement in case of non-availability of power from any other sources and it is mostly kept on standby. The energy generated through DG set in the FY 2023-24 is 0.32 MU.

The power received/purchased from the above-mentioned sources for the FY from 2023-24 is tabulated below in Table 1.3.2.

01			Energy (MU)
Sl No.	Name of projects () u	Owner	FY 2023-24
110.			(Actual)
1	DHPD	GoAP	56.74
2	Sumbachu	HPDCL	6.37
3	DIKSHI	IPP	65.26
3	Free Energy Dikshi	IPP	7.25
4	SOLAR	APEDA	0.55
5	Diesel Generation	DoP, AP	0.32
		Total	136.48

1.3.3 Power received from the other Sources:.

The following are the other sources from where DoP,AP draws power: -

- (i) Deviation: DoP,AP never purchases power deliberately through deviation. But the deviation of power does occur due to various reasons. DoP, AP schedules its power drawal based on immediate past trend consumption and on the declared capacity of the generators; however, unexpected changes often lead to deviations. Run-of-river hydro projects like Panyor Lower, Pare, and Kameng revise their declared capacity at times, causing DoP, AP to deviate from the original schedule very often, leading to drawl of power in excess of the scheduled power. Apart from this, sometimes industrial unit sudden breakdowns or sudden starts lead to deviation, and sometimes transmission line breakdowns also cause deviation. DoP, AP tries its best to avoid deviations, but they happen.
- (ii) IEX Purchase: -In case of any shortage of power, the DoP,AP resorts to purchasing power from Real-Time Market (RTM) or Day Ahead Market (DAM) from IEX to avoid or minimize Deviation. DoP,AP purchased 23.19 MU in FY 2023-24 to meet the power shortage at that time.

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- (iii) Banking: DoP,AP is engaged in the banking of energy during the high hydro season and takes back during the lean hydro season @ 5% above in case of forward banking and sometimes DOP,AP takes energy in advance from the party and returns to them @ 5% above as and when power is available. As such, there is no financial implication for this activity. The energy was imported via Banking to the tune of 109.10 MU in FY 2023-24
- (iv) Energy Import under TGNA TGNA regime started from 1st October 2023. The initial General Network Access (GNA) granted to DoP,AP was 134MW only, due to this restriction, DoP, AP has procured 1.21MU power through Temporary General Network Access in accordance with the provisions of Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022. The revised GNA to DoP,AP is 225MW w.e.f 1st April 2024.

SI.	Course of Domes	I I i 4	FY 2023-24	
No.	Source of Power	Unit	(Actual)	
1	Deviation	MU	98.18	
2	IEX Purchase	MU	23.19	
3	Banking (Import)	MU	109.1	
4	TGNA	MU	1.21	
	Total	MU	231.69	

1.3.4 Total Power received: -

Table 1.3.4: Total Power Received in FY 2023-24								
SI.	Source of Power	TI24	FY 2023-24					
No.		Unit	(Actual)					
1	Central Sector Allocation	MU	1208.5					
2	State Generation (IPP+Own)	MU	136.48					
3	From Other Sources	MU	231.69					
4	Total	MU	1576.67					

1.4 Necessity for Filing of Annual Performance Review: -

The Electricity Act 2003 under sections 62 and 64 provides for the determination of tariff by the appropriate commission on application by a licensee. The Arunachal Pradesh State Electricity Regulatory Commission (APSERC) notified Multi-Year Tariff Regulations- 2018 which provides for the filing of Annual Performance Review. The Regulation, 2.6(1) of Multi-Year Tariff Regulations- 2018 is produced below.

"The Generating Company, Transmission Licensee or Distribution Licensee as the case may be shall be subject to an annual review of performance and True Up during the Control Period

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In compliance to the directive contains in this regulation, DoP,AP is hereby filling this petition for Annual Performance Review for the FY 2024-25.

1.5 Procedure Adopted in preparation for this Annual Performance Review: -

While preparing the APR petition, the DoP,AP adopted the principle, guidelines, and procedure prescribed by Hon'ble Commission in the Multi-Year Tariff Regulation 2018. First of all, the aggregate revenue requirement of the DoP,AP is worked out as per guidelines provided in the financial principle of Multiyear Tariff Regulation 2018, then the expected revenue in the existing tariff is worked out. The revenue gap of that year is the difference between the Expected ARR and the Expected Revenue of that year. DoP,AP is not proposing the recovery of the revenue gap as the same is being funded as grant from the Government of Arunachal Pradesh. However, final Gap if any for the year shall be submitted for consideration of the Hon'ble Commission at the time of True-up for the year.

1.5.1 Estimation of Aggregate Revenue Requirement: -

According to Chapter 10.2(1) of APSERC Multi-Year Tariff Regulation 2018, the tariff for retail supply by a Distribution Licensee shall provide for recovery of the Aggregate Revenue Requirement of the Distribution Licensee for the financial year, as approved by the Commission and comprising the following components.

- a) Return on Equity Capital
- b) Interest on Loan Capital
- c) Depreciation
- d) Cost of own power generation/ power purchase expenses
- e) Inter-state Transmission charges
- f) Intra-state Transmission charges
- g) Charges for intervening transmission facilities, if any
- h) Fees and charges of NLDC/RLDC/SLDC etc
- i) Operation and maintenance expenses
- j) Interest in working capital and consumer security deposits and
- k) Provision for bad or doubtful debt.

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Minus

- 1) Non-tariff income
- 2) Income from wheeling charges recovered from the open-access customer
- 3) Income from other businesses to the extent specified in this regulation.
- 4) Receipt from cross-subsidy surcharges from open-access consumers, and
- 5) Receipt from the additional surcharge on charges of wheeling from open access consumers.
- 6) Any revenue subsidy or grant received from the state government other than subsidy under section 65 of the electricity act 2003.

1.5.2 Estimation of Annual Revenue Income: -

On the trends of energy consumption by different categories of consumers in the last few years, the likely consumption of each category of the consumers in the year have been projected. The projected quantities of the year have been thereafter multiplied by the corresponding projected tariff of each category of consumers to give the estimated Annual Revenue Income.

1.5.3 Determination of Revenue Gap: -

The difference in amount between the estimated Aggregate Revenue Requirement and estimated Annual Revenue Income is Revenue Gap for the year.

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CHAPTER-II :: ESTIMATION OF AGGREGATE REVENUE REQUIREMENT

2.1 Return on Equity Capital

DoP,AP being a Government Department, all funding comes from the State Government/Central Government as a grant without any obligation to pay back. DoP,AP is not incorporated/registered as a company, hence there is no shareholder/equity as a result **return on equity capital** does not arise. Hence, the DoP,AP will not claim a Return on Equity Capital.

2.2 Interest on Loan Capital

DoP,AP functions under the Government of Arunachal Pradesh. All financial matters of DoP,AP are controlled by the finance department of the Government. Taking a loan and its repayment are decided by them. Hence, DoP,AP cannot take any kind of loan independently and does not have any access to the loan and its repayment process even if the loan is taken for funding the projects under DoP,AP, its repayment is handled by the Government from its sources. Therefore, expenses on interest on the loan may be considered as Nil and DoP,AP shall not claim any for purpose of ARR.

2.3 Depreciation

Entire Assets under the control of DoP,AP are created from the grant of the Government of Arunachal Pradesh or the Government of India without any obligation to return. As per the regulatory direction, no depreciation can be claimed on the assets created from subsidies or grants which has no obligation to return. Therefore, DoP,AP shall not claim any depreciation for ARR.

2.4 Category-wise energy Sale Forecast within the State: -

The category-wise energy sale forecast is tabulated below in table 2.4A. This forecast is devised by using the Compound Annual Growth Rate (CAGR) of the preceding 5 years as required by section 10.10(2) APSERC Multi-Year Tariff Regulation 2018. As seen from the category-wise monthly sale for the FY 2023-24, there is no effect on seasonal change, hence annual basis forecast has been adapted instead of a monthly basis.

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Table: 2.4A Energy sale (With in the State) estimation for FY 2024-25

	Consumer Category	Past Year Energy Consumption data (in MU)					ears) *	Estimate (MU)		
SL No		FY 2019- 20	FY 2020- 21	FY 2021- 22	FY 2022- 23	FY 2023- 24	CAGR (5 Years) *	FY 2024-25		
		I	II	III	IV	v	٥ ک	VI		
Α		HT & E	HT Cate	gory						
1	Non-Commercial Consumers (Domestic)									
	AC 50Hz,3-Phase, 11KV	3-52	4.48	5.33	8.18	7.78	21.93%	9.49		
	AC 50Hz,3-Phase, 33KV	3.74	3-86	3-92	4.40	3.76	0.15%	3.77		
2	Commercial Consumers (Non-Industrial)									
	AC 50Hz,3-Phase, 11KV	10-32	10.34	11.97	17.18	17.53	14.16%	20.01		
	AC 50Hz,3-Phase, 33KV	0-09	0.28	0-33	0.27	0.13	8.72%	0.14		
3	Public Lighting and Water Supply Consumers									
	AC 50Hz,3-Phase, 11KV	3-58	3-72	3-00	3-26	3.22	0.00%	3.22		
	AC 50Hz,3-Phase, 33KV	0.00	0.62	0.00	0.00	0-00	0.00%	0.00		
4	Agricultural Consumers									
	AC 50Hz,3-Phase, 11KV	0.00	0-19	0.00	0.01	0.02	0.00%	0.02		
	AC 50Hz,3-Phase, 33KV	0.00	0.34	0.00	0.00	0.00	0.00%	0,00		
5	Industrial Consumers									
-	AC 50Hz,3-Phase, 11KV	14-38	14.30	18.71	20,17	20.92	9.82%	22.97		
	AC 50Hz,3-Phase, 33KV	21-12	27.85	32.27	38.00	37-15	15-17%	42.79		
	AC 50Hz,3-Phase, 132 KV	129.84	84-05	157-83	158-52	222.91	14.47%	255.15		
6	Bulk Mixed Consumers									
	AC 50Hz,3-Phase, 11KV	16.98	16.38	16-70	18.51	24.52	0-00%	24.52		
	AC 50Hz,3-Phase, 33KV	7.60	8.18	9.14	9.01	13.14	14-68%	15.07		
_	AC 50Hz,3-Phase, 132 KV	22.73	1.49	0	0	0.00	0.00%	0.00		
В		5 300 B	N 923				0.00.0			
1	Low Voltage Category Non-Commercial Consumers (Domestic)									
_	AC 50Hz,1-Phase, 230 Volt	126-49	131.11	145.19	165.04	167.27	7.24%	179.37		
	AC 50Hz,3-Phase, 400 Volt	20.61	22-21	25-34	26.41	30.48	10-28%	33-61		
	KJP & BPL connection AC 50Hz,1-Phase, 230 Volt	24.08	25.72	28-00	32,63	33-81	8-85%	36-80		
2	Commercial Consumers (Non-Industrial)	21100	2512	20.00	32,03	33-01	0-0370	50.00		
	AC 50Hz, I-Phase, 230 Volt	25.64	25.43	30-35	41.31	44-65	14.87%	51.29		
	AC 50Hz,3-Phase, 400 Volt	18.58	17-67	21.73	29.54	35.98	17.97%	42.45		
3	Public Lighting and Water Supply Consumers	10:30	17-07	21.73	29-34	33.96	17,9770	42.4.		
	AC 50Hz,1-Phase, 230 Volt	2.94	2.45	2 620	2 15	2.42	0.00%	3.42		
_	AC 50Hz,3-Phase, 400 Volt	2.84	2.45	2-620	3.15	3.42				
1		1.92	2-53	2.380	2.56	3.19	13.55%	3.62		
4	Agricultural Consumers AC 50Hz,1-Phase, 230 Volt	0.01	0.10	0.010	0.000	0.00	17.0404	0.00		
		0.01	0-18	0.010	0.009	0.02	17.84%	0.0		
5	AC 50Hz,3-Phase, 400 Volt	0.01	0.06	0.050	0.037	0.04	100.00%	0.0		
3	Industrial Consumers	0.50	0.24	1.020	0.400	0.01	0.000	0.0		
	AC 50Hz, 1-Phase, 230 Volt	0.50	0.34	1.630	0.498	0.91	0.00%			
6	AC 50Hz,3-Phase, 400 Volt Temporary Consumer	1.08	0-98	1.260	1.917	1.68	0.00%	1.6		

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C)			Past Year Energy Consumption data (in MU)			(in MU)	Years) *	Estimate (MU)
SL No	Consumer Category	FY 2019- 20	FY 2020- 21	FY 2021- 22	FY 2022- 23	FY 2023- 24	GR (5)	FY 2024-25
		I	II	III	IV	v	Ö	VI
	LT/HT	0.24	0.37	0.480	1.489	0.87	0.00%	0.87
	Total	455.90	405.11	518.24	582.10	673.41		751.29

In cases where there CAGR is negative, the growth factor has been considered as NIL. Hon'ble Commission is requested to approve the projected Energy Sale within the state for FY 2024-25 at 751.29 MU respectively.

The summary of the approved energy sale (within the state) in tariff order dated 26.07.2024 and the estimated energy sale (within the state) for the FY 2024-25 is given below

SLNo	Table: 2.4B Energy sale (With in the Consumer Category	Approved in Tariff Order 26.07.2024	Estimate (MU)	Deviation			
S E I I O	Consumer Category	FY 2024-25	FY 2024-25	FY 2024-25			
		I	II	I-II			
Α	HT & EHT Ca	itegory					
1	Non-Commercial Consumers (Domestic)						
	AC 50Hz,3-Phase, 11KV	12.36	9.49	2.87			
	AC 50Hz,3-Phase, 33KV	5.02	3.77	1.25			
2	Commercial Consumers (Non-Industrial)						
	AC 50Hz,3-Phase, 11KV	22.98	20.01	2.97			
	AC 50Hz,3-Phase, 33KV	0.36	0.14	0.22			
3	Public Lighting and Water Supply Consumers						
	AC 50Hz,3-Phase, 11KV	3.26	3.22	0.04			
	AC 50Hz,3-Phase, 33KV	0	0.00	0.0			
4	Agricultural Consumers						
	AC 50Hz,3-Phase, 11KV	0,01	0.02	-0.0			
	AC 50Hz,3-Phase, 33KV	0	0.00	0.0			
5	Industrial Consumers						
	AC 50Hz,3-Phase, 11KV	25.33	22.97	2.3			
	AC 50Hz,3-Phase, 33KV	49.56	42.79	6.7			
	AC 50Hz,3-Phase, 132 KV	195.46	255.15	-59.6			
6	Bulk Mixed Consumers						
	AC 50Hz,3-Phase, 11KV	18.51	24.52	-6.0			
	AC 50Hz,3-Phase, 33KV	9,92	15.07	-5.1			
	AC 50Hz,3-Phase, 132 KV	0	0.00	0.0			
В	Low Voltage C	ategory					
1	Non-Commercial Consumers (Domestic)						
	AC 50Hz,1-Phase, 230 Volt	189.25	179.37	9.8			
	AC 50Hz,3-Phase, 400 Volt	30.63	33.61	-2.9			
	KJP & BPL connection AC 50Hz,1-Phase, 230 Volt	40.6	36.80	3.8			

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SLNo	Consumer Category	Approved in Tariff Order 26.07.2024	Estimate (MU)	Deviation		
	Consumer Caregory	FY 2024-25	FY 2024-25	FY 2024-25		
		I	п	I-II		
2	Commercial Consumers (Non-Industrial)					
	AC 50Hz,1-Phase, 230 Volt	53.38	51.29	2.09		
	AC 50Hz,3-Phase, 400 Volt	38,58	42 45	-3.87		
3	Public Lighting and Water Supply Consumers		%			
	AC 50Hz,1-Phase, 230 Volt	3.15	3.42	-0.26		
	AC 50Hz,3-Phase, 400 Volt	2.59	3.62	-1.03		
4	Agricultural Consumers					
	AC 50Hz,1-Phase, 230 Volt	0.01	0.02	-0.01		
	AC 50Hz,3-Phase, 400 Volt	0.04	0.08	-0.04		
5	Industrial Consumers					
	AC 50Hz,1-Phase, 230 Volt	0.5	0.91	-0.41		
	AC 50Hz,3-Phase, 400 Volt	1.92	1.68	0.24		
6	Temporary Consumer					
	LT/HT	1.8	0.87	0.93		
	Total	705.24	751.29	-46.06		

2.5 Forecast of Sale of Power Outside the State: -

The energy sale forecast outside the state is calculated assuming annual increment of 5% above the previous year's consumption and is shown in table 2.5 below:

Table 2.5: Energy Sale Forecast outside the State

SL No	Particulars	Unit	FY 2020- 21 (Actual)	FY 2021-22 (Actual)	FY 2022-23 (Actual)	FY 2023-24 (Actual)	Current Year FY 2024- 25 (Estimate)
1	Energy Sale (IEX)	MU	179.66	168.22	234.12	142.43	149.55
2	Bilateral Sale	MU	7.20	96.71	130.42	125.68	131.96
3	Deviation Export	MU	14.89	13.14	14.76	42.93	57.82
4	Banking Export	MU	83.52	47.82	71.52	72.72	76.35
	Total	MU	285.28	325.89	450.82	383.75	415.68

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The Hon'ble Commission advised the DoP,AP through tariff order to reduce the sale outside the state as the sale at IEX is lower than the purchase price. DoP,AP do sell is selling power in the IEX at the rate discovered in the Exchange for a particular slot. Due to free power allocated from the Generating station located in Arunachal Pradesh, as being the home state, there used to be surplus power at times, especially during the high hydro season, hence the sale outside the state has to be continued. Hence, outside state sales has been projected for the current year. Therefore, Hon'ble Commission is requested to approve the estimated Energy Sale outside the state through IEX and bilateral sale for FY 2024-25 of 149.55 MU and 131.96 MU respectively.

2.6 Total Energy Sale Forecast: -

The total energy sale forecast both within the state and outside the state is tabulated in the table 2.6 below:

SL No	Particulars	Unit	FY 2020- 21 (Actual)	FY 2021-22 (Actual)	FY 2022-23 (Actual)	FY 2023-24 (Actual)	Current Year FY 2024- 25 (Estimate)
1	With in the State	MU	405.11	518.25	582.10	673.41	751.29
2	Outside the State	MU	285.28	325.89	450.82	383.75	415.68
	Total	MU	690.38	844.14	1032.92	1057.15	1166.97

Table 2.6: Total Energy Sale Forecast

2.7 Power Purchase Estimation: -

The power purchase quantum for the current year is estimated considering various factors like previous energy consumptions, energy sale projection, judicious scheduling, likely distribution losses, surplus energy sale during high hydro, restricting deviation import, restricting import from high-cost generators, total energy requirement, etc. and is shown in table 2.7A

Table2.7A:	Power	Purchase	Estimation
------------	-------	----------	------------

SL No	Name of Project/Source	Owner	Energy Received (MU)	Multiplying	Estimated (MU)	
22,,0	,		FY2023- 24(ACTUAL)	Factor	Current Year FY2024-25	
1	LOKTAK	NHPC	12.34	0%	12.34	
2	KOPILI-I	NEEPCO	11.91	0%	11.91	
3	KOPILI-II	NEEPCO	8.35	0%	8.35	
4	KHANDONG	NEEPCO	0.00	0%	0	
5	Panyor Lower	NEEDGO	72.84	0%	72.84	
3	Free Energy Panyor L	NEEPCO	140.07		140.07	

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SL No	Name of Project/Source	Owner	Energy Received (MU)	Multiplying Factor	Estimated (MU)
				FY2023- 24(ACTUAL)	ractor
6	DOYANG	NEEPCO	9.48	0%	9.48
	PARE	NEEDEGG	25.16	0%	25.16
7	Free Energy Pare	NEEPCO	57.29		57.29
	KAMENG		44.70	0%	44.70
8	Free Energy Kameng	NEEPCO	313.16		313.16
9	AGBPP	NEEPCO	98.46	0%	98.46
10	AGTCCPP	NEEPCO	43.79	0%	43.79
11	PALATANA	OTPCL	122.16	0%	122.16
12	BgTPP	NTPC	206.55	0%	206.55
13	FARAKKA	NTPC	19.70	0%	19.70
14	KAHALGAON	NTPC	9.90	0%	9.90
15	TALCHAR	NTPC	12.66	0%	12.66
16	DHPD	GoAP	56.74	0%	56.74
17	HPDCL	SPSU	6.37	0%	6.37
18	DIKSHI	IPP	65.26	0%	65.26
19	Free Energy Dikshi		7.25	0%	7.25
20	KHANGTANG	IPP			23.35
21	SOLAR	APEDA	0.55	0%	0.55
22	Deviation		98.18	-5%	93.27
23	IEX Purchase		23.19	0%	23.19
24	Banking (Import)		109.10	5%	114.55
25	Diesel Generation		0.32	0%	0.32
26	TGNA		1.21		0.00
	TOTAL		1576.67		1599.36

From the above table, it may be seen that deviation import (UI) is projected to be reduced by 5% during the year as it is a costly affair. Estimated Energy Requirement for FY 2024-25 is kept a 1599.36 MU.

The summary of the approved power purchase in the tariff order dated 26.07.2024 and the estimated power purchase for the FY 2024-25 is given below: -

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Table2.7B: Power purchase Comparison for the FY 2024-25

SL No	Name of Project/Source Owner		Approved in Tariff Order 26.07.2024 (MU)	Estimated (MU)	Deviation (MU)
			FY 2024-25	FY 2024-25	FY 2024-25
1	LOKTAK	NHPC	24.21	12.34	11.87
2	KOPILI-I	NEEPCO	11.91	11.91	0.00
3	KOPILI-II	NEEPCO	8.35	8.35	0.00
4	KHANDONG	NEEPCO	0	0.00	0.00
5	Panyor Lower	NEEPCO	84.4	72.84	11.56
5	Free Energy Panyor L	NEEPCO	155.67	140.07	15.60
6	DOYANG	NEEPCO	10.6	9.48	1.12
7	PARE	NEEPCO	28.74	25.16	3.58
,	Free Energy Pare	NEEPCO	63.31	57.29	6.02
8	KAMENG	NEEPCO	42.11	44.70	-2.59
0	Free Energy Kameng	NEEPCO	272.12	313.16	-41.04
9	AGBPP	NEEPCO	79.93	98.46	-18.53
10	AGTCCPP	NEEPCO	52.79	43.79	9.00
11	PALATANA	OTPCL	129.18	122.16	7.02
12	BgTPP	NTPC	130.24	206.55	-76.31
13	FARAKKA	NTPC	20.29	19.70	0.59
14	KAHALGAON	NTPC	10.61	9.90	0.71
15	TALCHAR	NTPC	14.09	12.66	1.43
16	DHPD	GoAP	55.54	56.74	-1.20
17	HPDCL	SPSU	3.59	6.37	-2.78
18	DIKSHI	IPP	56.58	65.26	-8.68
19	Free Energy Dikshi		11.64	7.25	4.39
20	KHANTANG	IPP		23.35	-23.35
21	SOLAR	APEDA	0.65	0.55	0.10
22	Deviation			93.27	-93.27
23	IEX Purchase			23.19	-23.19
24	Banking (Import)			114.55	-114.55
25	Diesel Generation		0.34	0.32	0.02
26	TGNA			0.00	0.00
	TOTAL		1266.89	1599.36	-332.47

2.8 Power Purchase Cost Estimation: -

The power purchase cost has been estimated by escalating the actual amount paid in the previous year to the Source/Agency by 5%. Further, as shown in Table 2.8A, the drawl from Deviation is proposed to be reduced by 5%, accordingly, the Purchase Cost from deviation is reduced by that extent.

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Table 2.8A: Power Purchase Cost Estimation

SL	Particulars -	Previous Year (Rs in Crore)	Multiplying actor for units (in %)	Multiplying Factor for cost (in %)	Current Year (Rs in Crore)
No	rarticulars	FY 2023-24 (Actual)	Multiplying Factor for units (in %)	Multij Factor (in	FY 2024-25 (Estimated)
1	NEEPCO	186.40	0	5	195.72
2	NTPC (Farakka, Kahalgaon, Talchar)	19.85	0	5	20.85
3	NTPC (BGTTP)	132.00	0	5	138.60
4	NHPC	6.27	0	5	6.59
5	OTPC	42.24	0	5	44.35
6	Deviation	54.80	-5	5	54.80
7	Reactive	0.15	0	5	0.16
8	Devi Energies	34.18	0	5	35.88
9	Kangteng Hydro Power Pvt. Ltd.				8.97
10	DHPD	0.00	0	0	0.00
11	HPDCAPL	2.42	0	5	2.54
12	APPCPL	8.74	0	5	9.18
13	Misc. Exp.	0.20	0	5	0.20
	Total	487.25			517.84

The Hon'ble Commission is requested to approve the power purchase cost for FY 2024-25 at Rs 517.84 Cr respectively.

The summary of the approved power purchase cost in tariff order dated 26.07.2024 and the estimated power purchase cost for the FY 2024-25 is given below:

Table 2.8B: Power Purchase Cost Comparison for FY 2024-25

				Rs in Crore
SL No	Particulars	Approved in Tariff Particulars Order 26.07.2024	Estimate	Deviation
		FY 2024-25	FY 2024-25	FY 2024-25
1	NEEPCO	155.74	195.72	-39.98
2	NTPC (Farakka, Kahal Gaon, Talchar)	24.69	20.85	3.84
3	NTPC (BGTTP)	136.19	138.60	-2.41
4	NHPC	9.50	6.59	2.91
5	OTPC	41.51	44.35	-2.84

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				Rs in Crore	
SL No	Particulars	Approved in Tariff Order 26.07.2024	Estimate	Deviation	
		FY 2024-25	FY 2024-25	FY 2024-25	
6	Deviation		54.80	-54.80	
7	Reactive		0.16	-0.16	
8	Devi Enrgies	29.7	35.88	-6.19	
9	Kangteng Hydro Power Pvt Ltd		8.97	-8.97	
10	DHPD	17.00	0.00	17.00	
11	HPDCAPL	1.29	2.54	-1.25	
12	APPCPL		9.18	-9.18	
13	Misc. Exp.		0.20	-0.20	
	Total	415.61	517.84	-102.23	

2.9 Inter-State and Intra-State Transmission Charges: -

The entire interstate power transmission in DoP,AP is transmitted through the PGCIL transmission infrastructure. The transmission charges incurred during 2020-21 to 2023-24 and projected transmission charges during the FY 2024-25 are tabulated in table 2.9(A) below. There is also a chargeable intrastate transmission system constructed by M/s Devi Energy Ltd to evacuate the power generated from the Dikshi SHP. Hence, the transmission charge has been calculated based on the proposed energy to be imported during the year. Further, the transmission charges of last year are escalated by 5% year over year to factor in the yearly cost variations. The estimated charges for the FY 2024-25 are shown in table 2.9(A).

Table: 2.9 (A) Inter State Transmission Charges

		4				Rs in Crore	
SL No	Utility	Utility Previous Year (Actual)					
		FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	
1	PGCIL	54.12	28.17	1.90	4.74	1.90	
2	CTUIL		74.65	107.83	93.34	99.35	
3	APDCL	2.12	2.81	2.79	0.00	7.80	
4	Total	56.23	105.63	112.52	98.08	109.05	

Hon'ble Commission is requested to approve the Estimated Inter-State Transmission Charges for FY 2024-25 at Rs 109.05 Cr respectively.

The summary of the approved interstate transmission charges in the tariff order dated 26-07-2024 and the estimated interstate transmission charges is given below:

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Table: 2.9 (B) Inter State Transmission Charges

				Rs in Crore
SL No	Approved in Tariff Order 26.07.2024		Estimate	Deviation
		FY 2024-25	FY 2024-25	FY 2024-25
1	PGCIL		1.9	-1.90
2	CTUIL	98.01	99.35	-1.34
3	APDCL	3.08	7.80	-4.72
4	Total	101.08	109.05	-7.96

Table: 2.9(C) Intra State Transmission Charges

						Rs in Crore
SL	Vieilies,		Previous Ye	ars (Actual)		Current Year (Estimated)
No	Utility	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024- 25
1	Devi Energies	11.81	11.45	11.45	11.45	11.45

The Hon'ble Commission is requested to approve the estimated Intra State Transmission Charges for FY 2024-25 as proposed above.

The summary of the approved intra state transmission charges in the tariff order dated 26.07.2024 and the estimated intra state transmission charges for the FY 2024-25 is given below:

Table: 2.9(D) Intra State Transmission Charges

				Rs in Crore
SL No	Utility	Approved in Tariff Order 26.07.2024	Estimate	Deviation
		FY 2024-25	FY 2024-25	FY 2024-25
1	Devi Energies	11.45	11.45	0.00

2.10 Fees and charges of NLDC/RLDC/SLDC etc.: -

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The fees for NERLDC have been estimated with proposed annual increment @ 5% of the previous year. Fees and charges for NERLDC and NERPC during 2020-21 to 2023-24 and estimated fee for the FY 2024-25 is tabulated in table 2.10A below:

	Tab	le: 2.10A Fe	e and Char	ges of NERI	DC			
		Fee and Charges of NERLDC (Rs in						
SL No	Utility	1	Current Year (Estimated)					
		FY 2020- 21	FY 2021-22	FY 2022- 23	FY 2023- 24	FY 2024-25		
1	NERLDC Fee	0.64	1.01	1.11	1.89	1.99		
2	NERPC board fund	0.01	0.01	0.01	0.01	0.01		
3	Total	0.65	1.02	1.12	1.90	2.00		

Hon'ble Commission is requested to approve the Estimated NERLDC fee and NERPC board fund for FY 2024-25 at Rs 2.00 Cr.

The summary of the approved NERLDC fees in the tariff order dated 26.07.2024 and estimated NERLDC fees for the FY 2024-25 is given below:

	Table: 2.10B Fee and Charges of NERLDC									
Rs in C										
SL No	Utility	Approved in Tariff Order 26.07.2024	Estimate	Deviation						
		FY 2024-25	FY 2024-25	FY 2024-25						
1	NERLDC Fee	1.22	1.99	-0.77						
2	NERPC board fund	0.01	0.01	0.00						
3	Total	1.23	2.00	-0.77						

2.11 Operation and Maintenance Cost: -

Operation and maintenance cost consist of three components;

- 1) Employee cost,
- 2) Repair and Maintenance cost
- 3) Administrative and General costs.

The DoP,AP will have estimated 9892 Nos of total employees in FY 2024-25. The detail is shown in table 2.11A.

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	Table: 2.	11(A) Nun	iber of En	nployees		
Description	Category of Employees	(Actual) FY 2020-21	(Actual) FY 2021-22	(Actual) FY 2022-23	(Actual) FY 2023-24	FY 2024- 25 (Estimate)
e:	Regular Employees	1054	1054	1054	1054	1054
Opening No of employees	Work Charged Employees	2786	2786	2786	2786	2786
	Casual Employees	6148	6148	6148	6148	6189
	Total	9988	9988	9988	9988	10029
Addition	Regular Employees	0	0	0	0	0
Addition during the year	Work Charged Employees	0	0	0	0	0
	Casual Employees	0	0	0	41	0
Retirement	Regular Employees	NA	NA	NA	NA	18
during the	Work Charged Employees	NA	NA	NA	NA	119
	Casual Employees	NA	NA	NA	Ctual) (Actual) FY 22-23 (Actual) FY 2023-24 (0
Closing no of	Regular Employees	1054	1054	1054	1054	1036
employees in year	Work Charged Employees	2786	2786	2786	2786	2667
) our	Casual Employees	6148	6148	6148	6189	6189
	Total	9988	9988	9988	10029	9892



The estimated cost of Employee Expenses, A&G Expenses and R&M Expenses for the year has been calculated as per APSERC guidelines provided in format 5 of MYT regulation 2018. The O&M expenses of the FY 2024-25 have been computed by escalating the average of the previous 3 years by 5.72% twice. The details are shown in table 2.11(B).

	Table:: 2.11(B) Operation and Maintenance Cost									
CI.	34	Previous Year		Previous Year						
SI. No.	Particulars	(Actual) FY 2020-21	(Actual) FY 2021-22	(Actual) FY 2022-23	(Actual) FY 2023-24	3 Year Average	(Estimated) FY 2024-25			
1	Employee Expenses	315.38	336.88	372.93	393.35	367.72	409.79			
2	A&G Expenses	5.46	9.24	15.11	8.70	11.02	12.28			
3	R&M Expenses	40.83	28.85	28.96	40.36	32.72	36.47			
4	Total O&M Expenses	361.67	374.97	417.00	442.41	411.46	458.53			

The summary of the approved O&M expenses in the tariff order dated 26.07.2024 and estimated O&M expenses for the FY 2024-25 is given below:

	Table: 2.11(C) Operation and Maintenance Cost									
				Rs in Crore						
Sl. No.	Particulars	Approved in Tariff Order 26.07.2024	Estimate	Deviation						
		FY 2024-25	FY 2024-25	FY 2024-25						
I	Employee Expenses	376.71	409.79	-33.08						
2	A&G Expenses	10.45	12.28	-1.83						
3	R&M Expenses	39.78	36.47	3.31						
4	Total O&M Expenses	426.94	458.53	-31.59						

Hon'ble Commission is requested to approve Estimated O&M expenses for FY 2024-25 458.53 Cr respectively.

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2.12 Interest in Working Capital

Working capital for DoP,AP is provided by the Government of AP as a grant as and when required, and therefore no interest on working capital is required to be paid by DoP,AP. Hence, interest in working capital may be considered **Nil**.

2.13 Bad and doubtful debt

DoP,AP does not have any bad and doubtful debt as per records. Therefore, provision for bad and doubtful debt may be considered Nil.

All Minus components, that is, all components that are to be subtracted from the components of ARR are Nil, namely, non-Tariff income, Income from Wheeling, Cross Subsidy, Other Business, etc.

2.14 Aggregate Revenue Requirement

The summary of the approved aggregate revenue requirement in the tariff order dated 26.07.2024 and the estimated aggregate revenue requirement for the FY 2024-25 is given below:

Table 2.14: Aggregate Revenue Requirement

			(Rs.	In Crores)	
S.L No.	Particulars	Approved in Tariff Order 26.07.2024	Estimate	Deviation	
		FY 2024-25	FY 2024- 25	FY 2024-25	
1	Return on Equity Capital		0	0.00	
2	Interest on Loan Capital		0	0.00	
3	Depreciation		0	0.00	
4	Power Purchase Expenses	415.61	517.84	-102.23	
5	Interstate Transmission Charges	101.08	109.05	-7.97	
6	Intrastate Transmission Charges	11.45	11.45	0.00	
7	Fees and charges of NERLDC/NERPC	1.23	2.00	-0.77	
8	O&M expenses	426.94	458.53	-31.59	
9	Interest on working Capital		0	0.00	
10	Provision for bad and doubtful debt		0	0.00	

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			(Rs.	In Crores)
S.L No.	Particulars	Approved in Tariff Order Estimate 26.07.2024		Deviation
		FY 2024-25	FY 2024- 25	FY 2024-25
11	Annual License Fee	0.05	0.05	0.00
12	Tariff filing fees	0.075	0.075	0.00
13	Training and Safety of Personnel	0.75	0	0.75
14	Total Revenue Requirement	957.19	1099.00	-141.81

Hon'ble Commission is requested to approve the Estimated Aggregate Revenue Requirement for FY 2024-25 at Rs.1099.00 Cr.

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CHAPTER – III:: EXPECTED REVENUE AND REVENUE GAP RECOVERY

3.1 Expected revenue in the existing tariff from the sale within the state: -

The category-wise energy sale in MU has been projected in table 2.4A. by using CAGR. These energy sale projections have been multiplied by category-wise existing tariffs to estimate the expected revenue from within the state and are tabulated in table 3.1A

Table 3.1A: Revenue estimation for FY 2024-25 from the sale of energy within the state in the existing tariff

SL No	Consumer Category	Existing Tariff (Per	Previou (Act		Current Year (Estimated)					
140		Kwh)	FY 2023-24 FY	FY 20	2024-25					
			Sale (MU)	Rs in Cr.	Sale (MU)	Rs in Cr.				
Α	High	n Voltage Ca	ategory							
1	Non-Commercial Consumers (Domes	stic)								
	3-Phase, 11KV	3.40	7.78	2.65	9.49	3.23				
	3-Phase, 33KV	3.25	3.76	1.22	3.77	1.22				
2	Commercial Consumers (Non-Indus	trial)								
	3-Phase, 11KV	4.20	17.53	7.36	20.01	8.41				
	3-Phase, 33KV	4.00	0.13	0.05	0.14	0.05				
3	Public Lighting and Water Supply Consumers									
	3-Phase, 11KV	4.20	3.22	1.35	3.22	1.35				
	3-Phase, 33KV	4.00	0.00	0.00	0.00	0.00				
4	Agricultural Consumers									
	3-Phase, 11KV	2.75	0.02	0.00	0.02	0.00				
	3-Phase, 33KV	2.65	0.00	0.00	0.00	0.00				
5	Industrial Consumers				9.49 3.77 20.01 0.14 3.22 0.00 0.02 0.00 22.97 42.79 255.15 24.52 15.07 0.00					
	3-Phase, 11KV	3.85	20.92	8.05	22.97	8.85				
	3-Phase, 33KV	3.50	37.15	13.00	42.79	14.98				
	3-Phase, 132 KV	3.35	222.91	74.67	255.15	85.48				
6	Bulk Mixed Consumers									
	3-Phase, 11KV	3.75	24.52	9.20	24.52	9.20				
	3-Phase, 33KV	3.40	13.14	4.47	15.07	5.13				
	3-Phase, 132 KV	3.25	0.00	0.00	0.00	0.00				
В	Lo	w Voltage Ca	tegory							
1	Non-Commercial Consumers (Dome	stic)								
	1-Phase, 230 Volt	4.00	167.27	66.91	179.37	71.75				

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SL No	Consumer Category	Existing Tariff	Previou (Act		Current Year (Estimated)				
140		(Per Kwh)	FY 2023-24		FY 2024-25				
			Sale (MU)	Rs in Cr.	Sale (MU)	Rs in Cr.			
-	3-Phase, 400 Volt	4.00	30.48	12.19	33.61	13.45			
	KJP & BPL connection	2.65	33.81	8.96	36.80	9.75			
2	Commercial Consumers (Non-Industrial)								
	1-Phase, 230 Volt	5.00	44.65	22.32	51.29	25.65			
	3-Phase, 400 Volt	5.00	35.98	17.99	42.45	21.22			
3	Public Lighting and Water Supply	Consumers		6					
	1-Phase, 230 Volt	5.10	3.42	1.74	3.42	1.74			
	3-Phase, 400 Volt	5.10	3.19	1.63	3.62	1.85			
4	Agricultural Consumers								
	1-Phase, 230 Volt	3.10	0.02	0.01	0.02	0.01			
	3-Phase, 400 Volt	3.10	0.04	0.01	0.08	0.03			
5	Industrial Consumers								
	1-Phase, 230 Volt	4.30	0.91	0.39	0.91	0.39			
	3-Phase, 400 Volt	4.30	1.68	0.72	1.68	0.72			
6	Temporary Consumer								
	LT/HT	6.50	0.87	0.57	0.87	0.57			
	Total		673.41	255.48	751.29	285.01			

The following tables shows the total income that including revenue from existing tariff as well as non-tariff income for the FY 2024-25.

			Table 3.	1B Reven	ue for F	Y 2024-	25			
SL No				C	urrent Y	ear (Estii	mate) FY 20	24-25		
	Consumer Category		Revenue from existing tariff		Non-Tariff Income			Total	Total	
			Energy Charge		LPS	Metre Rent	Other	non- tariff income	Revenue Billed	
			Sale (MU)	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	
A		<i>**</i>	H	ligh Volta	ge Categ	ory	0			
1	Non-Commercia	Consumers (Domestic)						
	3-Phase, 11KV	3.4	9.49	3.23	3.28	0.03	0.00	3.31	6.54	
	3-Phase, 33KV	3.25	3.77	1.22	0.36	0.01	0.00	0.37	1.60	

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_			Table 5.1	D Reven	uc for r	Y 2024-2	-5			
			Current Year (Estimate) FY 2024-25							
		Existing	Revenue from existing tariff		Non-Tariff Income			Total	Total	
SL No	Consumer Category	Tariff (Per Kwh)	Energy	Charge	LPS	Metre Rent	Any Other Charges	non- tariff income	Revenue Billed	
			Sale (MU)	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	
2	Commercial Const	umers (Non-	Industrial)						
	3-Phase, 11KV	4.2	20.01	8.41	2.12	0.08	0.00	2.21	10.6	
	3-Phase, 33KV	4	0.14	0.05	0.00	0.00	0.00	0.00	0.00	
3	Public Lighting an	d Water Su	oply Cons	umers					-	
	3-Phase, 11KV	4.2	3.22	1.35	0.90	0.00	0.00	0.90	2.20	
	3-Phase, 33KV	4	0.00	0.00	0.00	0.00	0.00	0.00	0.0	
4	Agricultural Cons	umers								
	3-Phase, 11KV	2.75	0.02	0.00	0.00	0.00	0.00	0.00	0.0	
	3-Phase, 33KV	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.0	
5	Industrial Consum	iers								
	3-Phase, 11KV	3.85	22.97	8.85	1.13	0.02	0.00	1.15	9.9	
	3-Phase, 33KV	3.5	42.79	14.98	-0.74	0.02	0.00	-0.72	14.2	
	3-Phase, 132 KV	3.35	255.15	85.48	0.00	0.04	0.00	0.04	85.5	
6	Bulk Mixed Consu	imers								
	3-Phase, 11KV	3.75	24.52	9.20	0.89	0.03	0.02	0.93	10.1	
	3-Phase, 33KV	3.4	15.07	5.13	0.01	0.01	0.00	0.02	5.1	
	3-Phase, 132 KV	3.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0	
В			1	Low Volta	ge Categ	ory				
1	Non-Commercial Consumers (Domestic)									
	1-Phase, 230 Volt	4	179.37	71.75	25.61	1.35	0.00	26.96	98.7	
	3-Phase, 400 Volt	4	33.61	13.45	2.93	0.06	0.00	2.99	16.4	
	KJP & BPL connection	2.65	36.80	9.75	7.94	0.31	0.00	8.25	18.0	
2	Commercial Cons	umers (Non-	Industria	1)			10	<u>" </u>		
	1-Phase, 230 Volt	5	51.29	25.65	5.05	0.23	0.00	5.28	30.9	
	3-Phase, 400 Volt	5	42.45	21.22	3.96	0.06	0.00	4.02	25.2	
3	Public Lighting ar	ıd Water Su	pply Cons	umers				1:	·, = =	
	1-Phase, 230 Volt	5.1	3.42	1.74	0.72	0.01	0.00	0.72	2.4	
	3-Phase, 400 Volt	5.1	3.62	1.85	0.54	0.01	0.00	0.55	2.4	
4	Agricultural Cons	umers								
	1-Phase, 230 Volt	3.1	0.02	0.01	0.00	0.00	0.00	0.00	0.0	
	3-Phase, 400 Volt	-3.1	0.08	0.03	0.00	0.00	0.00	0.00	0.0	
5	Industrial Consun	ners								
	1-Phase, 230 Volt	4.3	0.91	0.39	0.21	0.00	0.00	0.21	0.0	
	3-Phase, 400 Volt	4.3	1.68	0.72	0.36	0.00	0.00	0.37	1.0	
							-		-	

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			Table 3.1B Revenue for FY 2024-25								
	Consumer Category			Current Year (Estimate) FY 2024-25							
0.7			Revenue from existing tariff		Non-Tariff Income			Total	Total		
SL No			Energy	Charge	LPS	Metre Rent	Any Other Charges	non- tariff income	Revenue Billed		
			Sale (MU)	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.	Rs in Cr.		
	Total		751.29	285.01	55.38	2.27	0.02	57.67	342.68		

The actual revenue billed (Within the State) is Rs. 307.18 Cr for FY 2023-24. The total revenue includes other charges such as Late Payment Surcharge, Meter Rent etc. in addition to revenue from Tariff. The petitioner has calculated the ratio of total revenue & revenue from Tariff for the FY 2023-24. Further, revenue from tariff for the ensuing years have been calculated at the proposed rate & the same has been increased in the above ratio i.e. 1.20 to arrive at the total revenue.

3.2 Expected revenues from sales outside the state: -

Table 3.2::Revenue estimation from sales outside the state in the existing tariff

		Current Year (Estimated)			
SL No	Consumer Category	FY 202	24-25		
		Sale (MU)	Rs in Cr.		
1	Energy Sale (IEX)	149.55	149.58		
2	Bilateral Sale	131.96	0.56		
3	Deviation Export	57.82	0.00		
4	Total	339.33	150.14		

3.3 Expected revenue from sales both within and outside the state: -

Table 3.3: Revenue estimation from the sale within and outside the state in the existing tariff

		Current Ye	ar (Estimated)			
SL No	Consumer Category	FY 2024-25				
		Sale (MU)	Rs in Cr.			
1	With in the State	751.29	342.68			
2	Outside the State	339.33	150.14			
3	Total	1090.62	492.81			

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3.4 Aggregate Revenue Requirement and Revenue Gap: -

The summary of the approved aggregate revenue requirement and revenue gap in the tariff order dated 26.07.2024 and the estimated aggregate revenue requirement and revenue gap for FY 2024-25 is given below: -

Table 3.4: Aggregate Revenue Requirement, Income and Revenue Gap in Existing tariff

Sl.	Particulars	Approved in Tariff Order 26.07.2024	Estimate	Deviation
No.	1	FY 2024-25	FY 2024-25	FY 2024-25
		Rs. In Cr.	Rs. In Cr.	Rs. In Cr.
1	Return on Equity Capital		0	0.00
2	Interest on Loan Capital		0	0.00
3	Depreciation		0	0.00
4	Power Purchase Expenses	415.61	517.84	-102.23
5	Interstate Transmission Charges	101.08	109.05	-7.97
6	Intrastate Transmission Charges	11.45	11.45	0.00
7	Fees and charges of NERLDC/NERPC	1.23	2.00	-0.77
8	O&M expenses	426.94	458.53	-31.59
9	Interest on working Capital		0	0.00
10	Provision for bad and doubtful debt		0	0.00
11	Annual License Fee	0.05	0.05	0.00
12	Tariff filing fees	0.075	0.075	0.00
13	Training and Safety of Personnel	0.75	0	0.75
14	Total Revenue Requirement	957.19	1099.00	-141.81
15	less: Non-Tariff Income	41.59	57.67	-16.08
16	Net ARR (14-15)	915.60	1041.33	-125.73
17	Revenue from EXISTING Tariff	269.75	285.01	-15.26
18	Revenue from Sale of Surplus Power	194.10	150.14	43.96
19	Total Annual Income (17+18)	463.85	435.15	28.70
20	Total Grant from GOAP required (16-19)	451.75	606.18	-154.44
21	Revenue Gap (16-19-20)	Nil	Nil	

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3.5 ARR & ACS Gap for FY 2024-25: -

The ACS and ARR Gap has been calculated as per the guidelines of Central Electricity Authority. The ACS-ARR gap for the FY 2024-25 is shown in the table below.

Sl. No	Table No. 3.5 ACS-ARR Gap of I	FY 2024-25	
1	Total Revenue Requirement	Rs in Crore	1099.00
2	Gross Energy Input	in MU	1599.36
3	Revenue from Existing Tariff	Rs in Crore	285.01
4	Other income (Late payment, Meter rent etc)	Rs in Crore	57.67
5	Total revenue within state (including other income)	Rs in Crore	342.68
6	Revenue from Sale of Surplus Power	Rs in Crore	150.14
7	Total Annual Income (5+6)	Rs in Crore	492.81
8	Revenue Gap (1-7)	Rs in Crore	606.18
9	Expected Revenue Grant from GoAP	Rs in Crore	606.18
10	Average Cost of Supply (Rs/Kwh) (1/2*10)	RS/KWH	6.87
11	Average Realisable Revenue (Rs/Kwh) {(7+9)/2*10}	Rs/KWH	6.87
12	ACS-ARR (10-11)	Rs/KWH	0.00

3.6 Revenue gap and its recovery: -

Table 3.6: Revenue Gap and its Recovery for the FY 2024-25

Rs. In Crore

S.L No.	Particulars	(Estimated) FY 2024-25
1	Aggregate Revenue Requirement (ARR)	1099.00
2	Less: Other Income	57.67
3	Net ARR (1-2)	1041.33

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S.L No.	Particulars	(Estimated) FY 2024-25
4	Less: Income- Sale of power outside State	150.14
5	Net ARR from within the state (3-4)	891.19
6	Income from Existing tariff	285.01
7	Expected Government Grant (5-6)	606.18
8	Net Revenue Gap (5-6-7)	0.00

The revenue gap stands at Rs.606.18 Cr. for the FY 2024-25, The recovery of this gap is expected from the state Government as a **grant**.

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CHAPTER -IV: AGGREGATE TECHNICAL & COMMERCIAL LOSS

As per Clause 10.14 of APSERC Multiyear Tariff Regulation 2018 the licensee has to provide complete information about the AT&C losses during the previous year and that projected for the years for which the application is being made. In this chapter, the AT&C loss is analysed and estimated for FY 2024-25.

4.1 Net Input Energy Calculation Projection: -

The detailed calculation of Net Energy Input used in AT&C Loss Projection is given below in Table 4.1;

Table 4.1 Net Input Energy Calculation Projection							
			Current Year				
Particulars	Calculation		FY 2024-25 (Estimated)				
Energy Import from Grid	A	MU	1301.78				
Energy Export Out Side the State	В	MU	415.68				
Energy Injected in State from Grid	C=A-B	MU	886.10				
Transmission loss on C(3.51%)	D	MU	31.10				
State Own Generation + Received from Other Sources	Е	MU	297.58				
Gross Input Energy (including Export outside the state)	F=A+E	MU	1599.36				
Input Energy (in the State)	G=C+E	MU	1183.68				
Net Input Energy (in the State)	H=G-D	MU	1152.58				

4.2 AT&C loss and its projection: -

Due to the scattered load over a vast geographical area, no meters and defective meters at feeder level, at DT level, and at consumer level the AT&C loss is high in Arunachal Pradesh. However, a flagship project called RDSS is being implemented presently, through which the required metering will be done along with other loss reduction infrastructure works to reduce AT&C Loss.

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The AT&C loss projected for the current year is tabulated in table 4.2A

			Current Year
S No	Particulars	Calculation	FY 2024-25 (Estimated)
A	Input Energy (MkWh)	A	1183.68
В	Transmission Losses (MkWh)	В	31.10
С	Net Input Energy (MkWh)	C=A-B	1152.58
D	Energy Sold (MkWh)	D	751.29
Е	Revenue from Sale of Energy including Government Grant (Rs-Cr.)	Е	948.86
E (i)	Likely Collection (92% of Tariff & 100% of Grant)	E (i)	921.44
F	Adjusted Revenue from Sale of Energy on Subsidy Received basis (Rs. Cr.)	F	948.86
G	Opening Debtors for Sale of Energy (Rs. Cr.)	G	317.19
Н	(i) Closing Debtors for Sale of Energy (Rs. Cr.)	(i)	351.46
п	(ii) Any amount written off during the year directly from(i)	(ii)	
I	Adjusted Closing Debtors for sale of Energy (Rs. Cr.)	H (i+ii)	351.46
J	Collection Efficiency (%)	(E (i)+G- I)/E*100	93.50
K	Units Realized (Mkwh) = [Energy Sold*Collection efficiency]	D*J/100	702.45
L	Units Unrealized (Mkwh)= [Net Input Energy-Units Realized]	С-К	450.12
М	AT&C Losses (%) = [{Units Unrealized/Net Input Energy} *100]	L/C *100	39.05

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The summary of the approved AT&C Loss in the tariff order dated 26.07.2024 and the estimated AT&C loss for the FY 2024-25 is given below:

	Table 4.2 B: AT&	C Loss Projection		
Particulars	Approved in Tariff Order 26.07,2024	Estimate	Deviation	
S.L No.	FY 2024-25	FY 2024-25	FY 2024-25	
AT&C Loss (%)	22.00	39.05	-17.05	

The original approved AT&C Loss trajectory as per the sanctioned RDSS is as shown below:

Year	2020-21	2021-22	2022-23	2023-24	2024-25
AT&C Loss	46%	45%	35%	28%	22%

But, due to the ground reality of AT&C Loss status in Arunachal Pradesh, and in order to be able to maintain the AT&C Loss Trajectory during the implementation period of RDSS, the DoP,AP has proposed a revised AT&C Loss trajectory in consultation with Power Finance Corporation of India Ltd. (PFC), which was recommended by the Distribution Reform Committee (DRC) and submitted to the Monitoring Committee of Ministry of Power, Govt. of India. Now, the revised AT&C Loss trajectory is as shown below:

Year	2020-21	2021-22	2022-23	2023-24	2024-25
AT&C Loss	51.82%	50%	48%	45%	40%

Therefore, the Hon'ble Commission is requested to approve Estimated AT&C Loss for the FY 2024-25 at 39.05%.

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CHAPTER- V: TARIFF FOR DISTRIBUTION WHEELING BUSINESS

Chapter 9 of APSERC Multi-Year Tariff 2018 provides the tariff for the distribution wheeling business and chapter 9.1 provides for segregation accounts for Wheeling Business and Retail Supply Business. Chapter 9.5 provides for the adoption of the following allocation matrix in case of non-segregation of accounts.

Particulars	Wire Business (%)	Retail Supply Business (%)
Power Purchase Expenses	0	100
Intra-State Transmission Charge (Intra and Inter both)	0	100
SLDC Charge	0	100
Open Access Charge	0	100
Employee Expenses	60	40
Administration and General Expenses	50	50
Repair & Maintenance Expenses	90	10
Depreciation	90	10
Interest on Long-term Loan Capital	90	10
Interest on Working Capital and on Consumer Security Deposit	10	90
Bad Debt Written off	0	100
Income Tax	90	10
Contribution to contingency reserves	100	0
Return on Equity	90	10
Non-Tariff Income	10	90

Since APDoP does not have a separate account for the Wire Business and Retail Supply Business, the allocated matrix is followed.

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Distribution Business

The wheeling charges for the FY 2024-25 are tabulated below:

		Wire Business (%) Current Year	
CV			
SL No	Particulars	FY 2024-25 (Rs in Cr.)	
1	Power Purchase Expenses		
2	Intra-State Transmission Charge (Intra and Inter both)		
3	SLDC Charge	I	
4	Open Access Charge		
5	Employee Expenses	245.87	
6	Administration and General Expenses	6.14	
7	Repair & Maintenece Expenses	32.82	
8	Depriciation		
9	Interest on Long-term Loan Capital		
10	Interest on Working Capital and on Consumer Security Deposit		
11	Bad Debt Written off		
12	Income Tax		
13	Contribution to contingency reserves	(#1	
14	Return on Equity		
15	Non-Tariff Income	5.77	
16	Total	279.06	

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SL No	Particulars	Unit	Wheeling Charge Current Year FY 2024-25
1	ARR for Wire Business	Rs in Crore	279.06
2	Energy input	MU	1599.36
3	Wheeling Charge (ARR/Energy Input)	Rs per Unit	1.74

Hon'ble Commission is requested to approve the wheeling charge for FY 2024-25 at Rs. 1.74 per kWh respectively.

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CHAPTER – VI: PRAYER

The DoP,AP respectfully prays to the Hon'ble Commission-

- 1. To admit this Petition for approval of APR for FY 2024-25.
- 2. To grant any other relief as the Hon'ble Commission may consider appropriate.
- 3. To pass any other order as the Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.
- 4. The petitioner craves leave of the Hon'ble Commission to allow further submissions, additions, and alterations to this petition as may be necessary from time to time.

Dated Itanagar the . 28..th November 2024

Petitioner
For the Department of Power
Government of AP
Itanagar

Chief Engineer (Power)
Commercial-cum-CEI
Department of Power, Itanagar