

**PETITION FOR APPROVAL OF TRUE-UP OF FY 2020-21,
ANNUAL PERFORMANCE REVIEW OF 2021-22 AND
AGGREGATE REVENUE REQUIREMENT (ARR) FOR MYT
CONTROL PERIOD FROM FY 2022-23 TO 2024-25 AND
DETERMINATION OF TARIFF FOR FY 2022-23**

OF

ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY

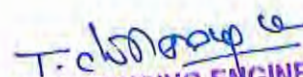
SUBMITTED TO

**THE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION
GURUGRAM**

BY

ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY

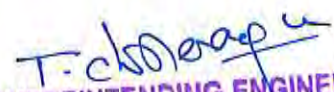
DECEMBER 2021


**SUPERINTENDING ENGINEER
-cum-HOD
Electricity Department
Puducherry**

**BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA, &
UNION TERRITORIES, GURUGRAM**

Filing No.....

Case No.....


SUPERINTENDING ENGINEER
-cum-HOD
Electricity Department
Puducherry

**BEFORE THE HON'BLE JOINT ELECTRICITY REGULATORY
COMMISSION
FOR THE STATE OF GOA AND UNION TERRITORIES**

IN THE MATTER OF:

**PETITION FOR FILING OF TRUE-UP FOR FY 2020-21, ANNUAL
PERFORMANCE REVIEW OF FY 2021-22, AGGREGATE REVENUE
REQUIREMENT (ARR) FOR MYT CONTROL PERIOD FROM FY 2022-23
TO FY 2024-25 AND DETERMINATION OF RETAIL TARIFF FOR
FY 2022-23**

AND

IN THE MATTER OF:

ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY

- PETITIONER

AFFIDAVIT

I, T.Chanemougam, Son of Shri E. Tandayoudabany, aged about 56 years, residing at No. 43, Saint Simon Pet, Muthialpet, Puducherry 605 001, the deponent named above do hereby solemnly affirm and state on oath as under:-

1. That the deponent is the Superintending Engineer cum Head of the Department, Electricity Department, Government of Puducherry duly authorised by the Government of Puducherry to make this affidavit on its behalf and the deponent is acquainted with the facts deposed below.
2. I, the deponent named above do hereby verify that the contents of the affidavit and those of the accompanying Petition are true to the best of my


**SUPERINTENDING ENGINEER
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Electricity Department
Puducherry**

personal knowledge and verify that no part of this affidavit is false and no material information has been concealed in the Petition.

Enclosure:

- (i) Six copies of Petition regarding filing of True-up for FY2020-21, Annual performance review of FY 2021-22, ARR for MYT Control Period FY 2022-23 to FY 2024-25 and Determination of Tariff for FY 2022-23.



(Deponent) **SUPERINTENDING ENGINEER
-cum-HOD
Electricity Department
Puducherry**

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



Advocate **S. SRINIVASA PERUMAL, B.A., LL.B.,
ADVOCATE & NOTARY PUBLIC
(GOVT. OF INDIA)
6, ANNAI VELANKANNI STREET
KAMARAJ NAGAR, PUDUCHERRY-11**

Solemnly affirmed before me on this 7th day of December 2021, by the deponent who has been identified by the aforesaid Advocate. I have satisfied myself by examining the deponent that he understood the contents of the affidavit which has been read over and explained to him. He has also been explained about section 193 of Indian Penal Code that whoever intentionally gives false evidence in any of the proceedings of the Commission or fabricates evidence for purpose of being used in any of the proceedings shall be liable for punishment as per law.



BEFORE THE HONOURABLE
JOINT ELECTRICITY REGULATORY COMMISSION
FOR STATE OF GOA AND UNION TERRITORIES

IN THE MATTER OF:

PETITION FOR FILING OF TRUE-UP FOR FY 2020-21, ANNUAL PERFORMANCE REVIEW OF FY 2021-22, AGGREGATE REVENUE REQUIREMENT (ARR) FOR MYT CONTROL PERIOD FROM FY 2022-23 TO FY 2024-25 AND DETERMINATION OF RETAIL TARIFF FOR FY 2022-23

AND

IN THE MATTER OF:

ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY

- PETITIONER

THE PETITIONER ABOVE NAMED RESPECTFULLY SUBMITS

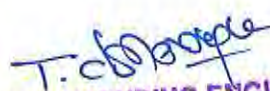

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LIST OF ABBREVIATIONS

Sr. No	Abbreviations	Descriptions
1	A&G	Administrative and General
2	ABT	Availability Based Tariff
3	ACoS	Average Cost of Supply/ Service
4	AMI	Automated Metering Infrastructure
5	AMR	Automatic Meter Reading
6	APR	Annual Performance review
7	ARR	Aggregate Revenue Requirement
8	CAGR	Compound Annual Growth Rate
9	CAPEX	Capital Expenditure
10	CEA	Central Electricity Authority
11	CERC	Central Electricity Regulatory Commission
12	CGS	Central Generating Station
13	CWIP	Capital work in progress
14	DELP	DSM based Efficient Lighting Programme
15	Discom	Distribution Companies
16	DSM	Demand Side Management
17	EA/The Act	The Electricity Act 2003
18	EDP/ PED	Electricity Department, Government of Puducherry
19	EC	Energy Charges
20	EHT	Extra High Tension
21	FC	Fixed Charges
22	FOR	Forum of Regulators
23	FY	Financial Year
24	GFA	Gross Fixed Assets
25	GoI	Government of India
26	HT	High Tension
27	JERC	Joint Electricity Regulatory Commission
28	JICA	Japan International Cooperation Agency
29	JNNSM	Jawaharlal National Solar Mission
30	KSEB	Kerala State Electricity Board
31	KV	Kilo Volt
32	kVA	Kilo Volt Ampere
33	kVAh	Kilo Volt Ampere Hour
34	kW	Kilo Watt
35	kWh	Kilo Watt Hour
36	LT	Low Tension
37	MNRE	Ministry of New and Renewable Energy
38	MOD	Merit Order Despatch
39	MoP	Ministry of Power
40	MOU	Memorandum of Understanding

Sr. No	Abbreviations	Descriptions
41	MU	Million Units (Million kWh)
42	MVA	Mega Volt Ampere
43	MW	Mega Watt
44	MYT	Multi Year Tariff
45	NFA	Net Fixed Assets
46	NLC	Neyveli Lignite Corporation
47	NPCIL	Nuclear Power Corporation of India Limited
48	NTP	National Tariff Policy
49	NTPC	National Thermal Power Corporation
50	O&M	Operation & Maintenance
51	PLR	Prime Lending Rate
52	POC	Point of Connection
53	PPA	Power Purchase Agreement
54	PPCL	Puducherry Power Corporation Limited
55	PV	Photo voltaic
56	R&M	Repair and Maintenance
57	R-APDRP	Restructured Accelerated Power Development and Reforms Programme
58	REC	Renewable Energy Certificate
59	ROE	Return on Equity
60	RPO	Renewable Purchase Obligation
61	Rs	Rupees
62	SBI	State Bank of India
63	SECI	Solar Energy Corporation of India
64	SLDC	State Load Dispatch Centre
65	SWOT	Strength, Weakness, Opportunity and Threats
66	TANGEDCO	Tamil Nadu Generation and Distribution Company
67	T&D	Transmission and Distribution
68	TOD	Time of Day
69	UI Charges	Unscheduled Interchange Charges
70	w.e.f.	With effect from
71	WPI	Wholesale Price Index

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CHAPTER 1. INTRODUCTION

1.1.1 The Union Territory of Puducherry comprises of four regions namely Puducherry, Karaikal, Mahe and Yanam, which are not geographically contiguous and is spread over an area of 492 Sq. km with the total population of 12.45 Lakhs as per provisional results of Census 2011. The basic profiles of four regions are as follows:

- Puducherry is the largest among the four regions and consists of 12 scattered areas interspersed with enclaves of Villupuram and Cuddalore Districts of Tamil Nadu.
- Karaikal is about 150 kms South of Puducherry and is bounded by Nagapattinam and Thiruvarur Districts of Tamil Nadu State.
- Mahe lies almost parallel to Puducherry 653 kms away on the west coast near Kannur District of Kerala State.
- Yanam is located about 840 kms north-east of Puducherry and it is located in the East Godavari District of Andhra Pradesh State.

1.1.2 The Territory of Puducherry was merged with the Indian Union on 1st November 1954 and is administered under the provisions of Government of Union Territories Act, 1963.

1.2 Electricity Department of Puducherry

1.2.1 Puducherry Electricity Department being a deemed distribution licensee as per section 14 of the Electricity Act 2003, performs the functions of transmission and distribution of electric power to the Union Territory. The sole generating station in Puducherry is a 32.5 MW combined cycle gas power plant in Karaikal owned by the Puducherry Power Corporation Limited. The entire power requirement of Puducherry is met from the power allocated from the Central Generating Stations, Tamil Nadu Electricity Board and from the Puducherry Power Corporation Limited

1.2.2 The Union Territory of Puducherry has an extensive network of Power Transmission and Distribution Systems spread along the breath and width of all the four regions of the Union Territory. PED operates a transmission network of 230 kV, 110 kV & 132 kV and distribution network at 33 kV, 22 kV, and 11 kV and at LT levels

1.3 Filing under Tariff Regulations

1.3.1 PED has been filing its ARR and Tariff petitions for the past years with the Hon'ble Commission based on the principles outlined by the Hon'ble Joint Electricity Regulatory Commission (hereinafter referred to as Hon'ble Commission / JERC) vide

their Regulations on applicable terms and conditions of Tariff for Distribution Licensees as notified in 2014 and 2018.

- 1.3.2 PED has filed its petition for True-up for FY 2017-18 and FY 2018-19 under JERC (Multi Year Distribution Tariff) Regulations, 2014, Annual Performance Review for FY 2019-20 and determination of Aggregate Revenue Requirement (ARR) & Retail Tariff for distribution and retail sale of electricity for FY 2020-21 under section 61, 62 & 64 of the Electricity Act, 2003 and JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2018 (hereinafter referred to as "MYT Regulations 2018") against which Tariff Order was issued by the Hon'ble Commission on 18th May, 2020.
- 1.3.3 PED has filed its petition for True-up for FY 2019-20, Annual Performance Review for FY 2020-21 and determination of Aggregate Revenue Requirement (ARR) & Retail Tariff for distribution and retail sale of electricity for FY 2021-22 under section 61, 62 & 64 of the Electricity Act, 2003 and JERC MYT Regulations 2018 against which Tariff Order was issued by the Hon'ble Commission on 07th April, 2021.
- 1.3.4 The Hon'ble Commission issued the JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021 (hereinafter referred to as "MYT Regulations 2021") in exercise of powers conferred by Section 61, 62, 63 and 86 read with Section 181 of Electricity Act 2003 on 22nd March, 2021. These regulations were made applicable to all distribution licensee in the State of Goa & Union Territories of Andaman & Nicobar Island, Dadra & Nagar Haveli, Daman & Diu, Chandigarh, Lakshadweep and Puducherry. As per clause 1.2 of the JERC MYT Regulations, 2021, the Control Period was defined as a three-year period from FY 2022-23 to FY 2024-25 i.e. from April 1, 2022 to March 31, 2025.
- 1.3.5 As per provisions in clause 8.1 of MYT Regulations, PED shall file its Business Plan petition for three years control period i.e. from FY 2022-23 to FY 2024-25 before the Commission latest by 15th May 2021 for approval. However the Hon'ble Commission vide its letter No. File No.RA-140II/g/1/2020-RA dated 29th September 2021 has provided the extension to file the Business plan petition by 30th November 2021.

1.4 Filing of ARR and Tariff Petition

- 1.4.1 Under the provisions of Electricity Act, 2003, Licensee is required to submit its ARR and Tariff Petition as per procedures outlined in section 61, 62 and 64 of EA 2003, and the governing regulations of JERC of the relevant years thereof.

- 1.4.2 The Hon'ble Commission notified in JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021 ,that

"These Regulations shall be applicable for determination of tariff in all matters covered under these Regulations from FY 2022-23 onwards and upto FY 2024-25, i.e. from April 1, 2022 to March 31, 2025, unless otherwise reviewed/modified/extended."

- 1.4.3 As per the JERC MYT Regulations 2021, PED was required to file the ARR and the MYT Petition for the control period by 30th November, 2021.

- 1.4.4 PED has adopted the principles of JERC MYT Regulations, 2021, for determination of ARR for the control period FY 2022-23 to FY 2024-25 and tariff for FY 2022-23. However, PED is also submitting the petition for True-up of FY 2020-21 as per actuals and Annual Performance Review of FY 2021-22 in line with JERC MYT Regulations, 2018 for the approval of the Hon'ble Commission. The tariff formats as outlined in Regulations and as applicable to PED are provided at the end of this petition.

- 1.4.5 The Hon'ble Commission further noted in the Tariff order dated 18th May, 2020 that –

"6) The Commission is issuing this Order considering the "Business as Usual" scenario based on the Petition submitted by the Electricity Department, Government of Puducherry after detailed analysis of submissions made by the Petitioner for FY 2020-21 and without factoring the impact of lockdown. The Commission will duly consider the impact of lockdown on sales and ARR of the Petitioner for FY 2020-21 at the time of evaluating APR of FY 2020-21 and thereafter True-up of FY 2020-21."

- 1.4.6 PED is now filing this petition for approval of Hon'ble Commission whereby the Tariff Formats are enclosed as per **Annexure 1** of this petition. The details are provided in subsequent chapters.


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CHAPTER 2. OVERALL APPROACH FOR PRESENT FILING

In this petition, Puducherry Electricity Department is filing the True-up for FY 2020-21 and APR for FY 2021-22 along with MYT ARR for the control period of FY 2022-23 to FY 2024-25 and determination of tariff for FY 2022-23.

2.1 True-up for FY 2020-21

- 2.1.1 As specified in the JERC MYT Regulations 2018, the Hon'ble Commission shall undertake the truing-up exercise for the previous year based on audited accounts. In the current petition, figures of FY 2020-21 are made available for True-up with the details of ARR specified in the relevant chapter of this petition. PED hereby submits that the unaudited accounts for FY 2020-21 is submitted and certificate from CAG is awaited and it is expected that the CAG certificate for the same will be submitted on or before Technical Validation Session (TVS).

2.2 Annual Performance Review for FY 2021-22

- 2.2.1 As specified in the JERC MYT Regulations 2018, the Hon'ble Commission shall undertake the Annual Performance Review by considering variations between the approved and revised estimates/pre-actual of sale of electricity, income and expenditure for the relevant year.
- 2.2.2 PED is filing this Annual Performance Review petition for the year FY 2021-22 based on the approved figures in the Business Plan and the last Tariff Order with modifications in certain components based on the present status.

2.3 ARR Petition for MYT control period from FY 2022-23 to 2024-25

- 2.3.1 The Joint Electricity Regulatory Commission had notified the JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021, on 22nd March 2021.
- 2.3.2 As per Clause 9 of the JERC MYT Regulations 2021, PED is filing the petition for the approval of MYT petition for FY 2020-23 to 2024-25 in line with the JERC MYT Regulations 2021. The projections are based on the norms specified in the Regulations, and on the past performance, wherever required and considering expected changes in each element of cost and revenue for the ensuing control period. PED has studied the previous trends and taken cognisance of other internal and external developments to estimate the likely performance for the said period.

2.3.3 The subsequent sections of the petition provides projection for various expenses, the proposed investment plan for the control period and the expected revenue projections with existing tariff based on the tariff notifications in force in the area of supply of PED.

2.3.4 Projections of various cost components required for determination of Aggregate Revenue Requirement for the control period along with the rationale for estimation of such cost is covered in the subsequent section. Further, the philosophy adopted by PED for projecting power purchase cost has also been elucidated in the respective sections.

2.4 Norms for Projection

2.4.1 PED is filing this petition in line with the norms and principles enumerated by Hon'ble Commission in the JERC MYT Regulations 2021.

2.4.2 For True-up of FY 2020-21, the petition has been prepared in line with the financial statements and actual figures available with the department. The projections for the control period FY 2022-22 to FY 2024-25 have been adopted based on the JERC MYT regulations 2021.

2.4.3 True-Up for FY 2020-21, APR for FY 2021-22 and ARR for the Control Period i.e. FY 2022-22 to FY 2024-25 have been carried out separately and details of the same are presented separately.


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CHAPTER 3. TRUE UP OF FY 2020-21

3.1 Preamble

3.1.1 This section outlines the performance of Puducherry Electricity Department (PED) for FY 2020-21. PED had filed a petition for determination of tariff and revised ARR of FY 2020-21 before the Hon'ble Commission on December, 2019. The Hon'ble Commission after undertaking a thorough analysis had issued the Tariff Order for FY 2020-21 on 18th May, 2020. The Hon'ble Commission had issued the Tariff Order for FY 2021-22 including Annual Performance review for FY 2020-21 on 07th April, 2021.

3.1.2 This chapter summarizes each of the components of True-up for FY 2020-21 and thereby working out the revenue gap for that year.

3.2 Number of Consumers

3.2.1 PED submits before the Hon'ble Commission the actual consumer numbers for FY 2020-21 in comparison of the approved numbers below:

Table 3-1: Details of No. of Consumers for FY 2020-21

No	Particulars	Approved in Tariff Order	Actuals
1	Domestic	365595	358628
2	OHOB	35537	8248
3	Commercial	59652	56050
4	Agriculture	7039	7029
5	Public Lighting	51077	51153
6	LT Industrial & Water Tank	6869	4386
7	Total LT	525771	485494
8	HT 1 Industrial & Commercial	433	455
9	HT 2 Government & Water Tank	68	63
10	HT 3 EHT	7	8
11	Total HT	508	526
12	TOTAL LT & HT	526279	486020

3.2.2 It is requested to Hon'ble Commission to consider the number of consumers as submitted in the above table for FY 2020-21.

3.3 Energy Sales

3.3.1 The total sales of PED for FY 2020-21 are **2522.06** MUs. The category wise actual and approved sales for FY 2020-21 are shown in the table below.


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Table 3-2: Sales (MUs) for FY 2020-21

No	Particulars	Approved in Tariff Order	Actuals
1	Domestic	842.43	806.17
2	OHOB	5.62	3.50
3	Commercial	189.33	148.50
4	Agriculture	68.57	59.99
5	Public Lighting	23.23	20.5
6	LT Industrial & Water Tank	164.94	142
7	Temp. LT	4.96	4.43
8	Total LT	1299.07	1186.27
9	HT 1 Industrial & Commercial	857.52	864.43
10	HT 2 Government & Water Tank	64.41	53.49
11	HT 3 EHT	378.21	413.94
12	Total HT	1300.14	1331.86
13	Export to other Region	-	3.92
14	TOTAL SALES	2599.21	2522.06

3.3.2 Based on the above submission PED requests the Hon'ble Commission to approve the actual sales for FY 2020-21 as stated in the table above.

3.4 Distribution Loss & Energy Requirement

3.4.1 The Hon'ble Commission had approved energy loss of **11.75%** in FY 2020-21 tariff order. PED submits the actual energy loss for FY 2020-21 as **11.99%**. Energy balance based on the actual sales, power purchase and distribution losses are given in the table below:

Table 3-3: Distribution Loss and Energy Balance for FY 2020-21 (MU)

S. No.	Particulars	FY 2020-21 Actuals
A)	Energy Requirement	
1	Total Sales within the UT	2518.14
2	Energy Drawal by TANGEDCO	3.92
3	Sales to Electricity Traders / Power Exchange	
4	Sale to Open access Consumers	
5	Total Sales	2522.06
6	T&D Losses	
a	T&D Loss (%)	11.99%
b	T&D Loss (MU)	343.44
7	Total Energy Requirement	2864.96

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S. No.	Particulars	FY 2020-21 Actuals
B)	Energy Availability	
1	Net Power Purchase (ex Bus)	2788.44
2	Own Generation (PPCL+ Renewable)	217.92
3	Power purchase from Common Pool / UI-overdrawal / Traders / Exchange / Others	33.12
4	UI Underdrawal	102.58
5	Open Access Power Purchase at periphery	
6	Net Power Purchased (1+2+3-4+5)	2936.90
7	Transmission Losses	71.93
	Transmission Losses (%)	2.45%
8	Total Energy Availability (4-5-6)	2864.96
9	Deficit/(Surplus)	0.00

3.4.2 It is submitted that despite substantial capitalisation in the current year, R&M expenses were on lower side which are necessary for regular upkeep of the assets. The capitalisation of assets during the year will assist PED in consumer growth as well as for maintaining T&D loss at current level.

3.4.3 PED submits that in comparison with the approved figures, actual T&D losses are higher due to above mentioned reasons and therefore request the Hon'ble Commission to approve the Distribution Loss of **11.99%** for FY 2020-21.

3.4.4 Further, the Transmission/PGCIL Losses of **2.45%** for FY 2020-21 may be approved by the Hon'ble Commission.

3.5 Power Purchase Quantum & Cost for FY 2020-21

3.5.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and PPCL. PPCL is a generating company within the UT of Puducherry catering to the partial requirement of Karaikal region.

3.5.2 The table below shows the summary of actual Power Purchase from various sources along with their costs for FY 2020-21 including Transmission Charges, UI charges and purchase from traders.


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Table 3-4: Power Purchase Quantum & Cost for FY 2020-21

S. No.	Particulars	Approved (FY 2020-21)			Actuals (FY 2020-21)		
		Purchase (MUs)	Cost (Rs. Cr.)	Rate (Rs./unit)	Purchase (MUs)	Cost (Rs. Cr.)	Rate (Rs./unit)
1	NTPC	1182.59	379.21	3.12	1145.09	371.13	3.24
2	NLC	705.70	327.81	2.15	584.84	286.74	4.90
3	PPCL	220.62	91.04	2.42	217.92	79.29	3.64
4	KAIGA	295.86	103.72	2.85	298.15	63.48	2.13
5	MAPS	29.32	7.79	3.76	26.66	6.95	2.60
6	NTECL	115.24	75.84	1.52	53.51	60.20	11.25
7	KKNP	313.21	124.25	2.52	387.94	153.97	3.97
8	NNTPS	75.72	51.33	1.48	164.35	77.26	4.70
9	NTPL (Tuticorin)				127.90	80.34	6.28
10	Open market	6.92	1.85				
11	OA Power purchase						
12	PGCL (POC + Non POC Charges)		64.91			85.73	
13	SRLDC Charges					0.27	
14	SRPC					0.13	
15	RPO Obligations						
16	KPTCL					0.08	
17	UI Charges					0.39	
18	Power purchased expenses for prior period						
19	Sub-Total					1265.96	
20	Adjustments Bills / Debit Notes / Credit Notes for prior period						
21	Less: Interest cost					24.88	
22	Power Purchase Cost (Sub- Total)	2945.19	1227.75	2.39		1241.08	
23	URS Income					0.07	
24	UI/DSM Charges					11.81	
25	RARS Charges					1.44	
26	Sale of Trading Materials					0.18	
27	Sub-total (Additional Income)					13.50	
28	Net Power Purchase Cost	2945.19	1227.75	4.16	3006.36	1227.58	4.08

3.5.3 Accordingly, Hon'ble Commission is requested to approve **Rs 1277.58 Cr** for FY 2020-21 as power purchase cost incurred during the year, as per the Financial Accounts of FY 2020-21.

3.6 Renewable Purchase Obligation FY 2020-21

3.6.1 As per Regulation 1, Sub-regulation (1) of the JERC for the State of Goa and UTs

(Procurement of Renewable Energy) Regulations, 2010

"Each distribution licensee shall purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year."

3.6.2 The Commission notified the JERC (Procurement of Renewable Energy), (Third Amendment) Regulations, 2016 on 22nd August 2016 and revised the RPO targets, according to which the Petitioner had to purchase 14.10% of its total consumption (6.00% from Solar and 8.10% from Non-Solar) from renewable sources for the FY 2020-21.

3.6.3 Based on the above, the PED has computed the cumulative RPO compliance and the pending backlog at the end of the FY 2019-20 as shown in the following table:

Table 3-5: Renewable Purchase Obligation for FY 2020-21

S.No	Description	Unit	FY 2020-21
1	Sales Within State	MUs	2,522.06
2	RPO Obligation	%	14.10%
	- Solar	%	6.00%
	- Non Solar	%	8.10%
3	RPO Obligation	MUs	355.61
	- Solar	MUs	151.32
	- Non Solar	MUs	204.29
4	RPO Purchase	MUs	10.60
	Physical Power		
	- Solar	MUs	10.60
	- Non Solar	MUs	-
	Renewable Energy Certificate		
	- Solar	MUs	-
	- Non Solar	MUs	-
5	Cumulative RPO Obligation		
	- Solar	MUs	450.56
	- Non Solar	MUs	541.16

3.7 Operation & Maintenance Expenses

3.7.1 As per Regulation 51 of JERC MYT Regulations, 2018, the Hon'ble Commission shall stipulate separate trajectory of norms for each component of O&M expenses.

"51.1 The Operation and Maintenance expenses for the Distribution Wires Business shall be computed in accordance with this Regulation."

51.2 Operation and Maintenance (O&M) expenses shall comprise of the following:

- a) Employee expenses - salaries, wages, pension contribution and other employee costs;*
- b) Administrative and General expenses including insurance charges if any; and*

c) Repairs and Maintenance expenses.

51.3 The Distribution Licensee shall submit the required O&M expenses for the Control Period as a part of Multi Year Tariff Petition. O&M expenses for the base Year shall be approved by the Commission taking into account the latest available audited accounts, business plan filed by the transmission Licensee, estimates of the actuals for the Base Year, prudence check and any other factors considered appropriate by the Commission.

51.4 O&M expenses for the nth Year of the Control Period shall be approved based on the formula given below:

$$O\&M_n = (R\&M_n + EMP_n + A\&G_n) \times (1 - X_n) + \text{Terminal Liabilities}$$

Where,

$$R\&M_n = K \times GFA_{n-1} \times (\text{WPI inflation})$$

$$EMP_n = (EMP_{n-1}) \times (1 + G_n) \times (\text{CPI inflation})$$

$$A\&G_n = (A\&G_{n-1}) \times (\text{CPI inflation})$$

'K' is a constant (expressed in %). Value of K for each Year of the Control Period shall be determined by the Commission in the Multi Year Tariff Order based on Licensee's filing, benchmarking of repair and maintenance expenses, approved repair and maintenance expenses vis-à-vis GFA approved by the Commission in past and any other factor considered appropriate by the Commission;

CPI inflation – is the average increase in Consumer Price Index (CPI) for immediately preceding three (3) Years before the base Year;

WPI inflation – is the average increase in the Wholesale Price Index (CPI) for immediately preceding three (3) Years before the base Year;

EMP_n – Employee expenses of the Distribution Licensee for the nth Year;

A&G_n – Administrative and General expenses of the Distribution Licensee for the nth Year;

R&M_n – Repair and Maintenance expenses of the Distribution Licensee for the nth Year;

X_n is an efficiency factor for nth Year. Value of X_n shall be determined by the Commission in the Multi Year Tariff Order based on Licensee's filing, benchmarking, approved cost by the Commission in past and any other factor the Commission feels appropriate;

G_n is a growth factor for the nth Year. Value of G_n shall be determined by the Commission for each Year in the Multi Year Tariff Order for meeting the additional manpower requirement based on Licensee's filings, benchmarking, approved cost by the Commission in past and any other factor that the Commission feels appropriate;

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Provided that in case the Distribution Licensee has been in operation for less than three (3) Years as on the date of effectiveness of these Regulations, O&M Expenses shall be determined on case to case basis.

51.5 Terminal liabilities of employees of Licensee including pension expenses etc. shall be approved as per actuals submitted by the Licensee, subject to prudence check or be established through actuarial studies. Additionally, any variation due to changes recommended by the pay commission shall be allowed separately by the Commission, subject to prudence check.

51.6 For the purpose of estimation, the same value of factors – CPIinflation and WPIinflation shall be used for all Years of the Control Period. However, the Commission shall consider the actual values of the factors – CPIinflation and WPIinflation during the truing up exercise for the Year for which true up is being carried out and true up the O&M Expenses for that Year, only to the extent of inflation.”

GFA_{n-1} – Gross Fixed Asset of the Licensee for the n-1th Year;”

3.7.2 Employee Expenses: PED has computed the O&M (Employee) expense for FY 2020-21 based on the actual employee expenses incurred during the entire year.

3.7.2.1 The employee cost incurred during the year for FY 2020-21 is Rs **114.53** Crore.

Table 3-6: Employee Expenses for FY 2020-21(Rs. Cr)

Particulars	Approved by Commission (FY 2020-21)	Actuals (FY 2020-21)
Salary	112.94	128.53
Wages		0.80
Stipend		0.53
Overtime Payment		
Less: Departmental Charges		0.45
Less: Salary Costs Capitalized		14.87
Net amount		
Add : prior period expenses		
Total Employee Expenses for PED	112.94	114.53

3.7.2.2 PED submits that it has been able to identify the cost of employees involved towards maintenance of other Govt. Departments and has accordingly deducted the cost of **Rs. 0.45 Cr** from the employee Expenses. Further, an amount of **Rs. 14.87 Cr** has been capitalized from the employee expenses during the year FY 2020-21.

3.7.2.3 Accordingly, PED requests the Hon'ble Commission to kindly approve the actual net cost of **Rs 114.53 Cr** towards employee expenses during the year for FY 2020-21.

3.7.3 **Repairs & Maintenance Expenses:** The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2020-21.

Table 3-7: R&M Expenses for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved by Commission (FY 2020-21)	Actuals (FY 2020-21)
1	R&M Expenses	10.5	11.29

3.7.3.1 As seen from the table above R&M expenses incurred actually for FY 2020-21 were marginally higher than the approved level.

3.7.3.2 PED submits that R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standard of Performance of the utility. PED therefore requests the Hon'ble Commission to approve **Rs. 11.29 Cr** for FY 2020-21 towards R&M expenses.

3.7.4 **Administration & General expenses:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc. The total A&G expenses incurred by the petitioner for FY 2020-21 are shown in the table below.

Table 3-8 A&G Expenses for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved by Commission (FY 2020-21)	Actuals (FY 2020-21)
1	A & G Expenses	13.48	17.13

3.7.4.1 The Hon'ble Commission is therefore requested to approve the A&G expenses of **Rs. 17.13 Cr** for FY 2020-21.

3.7.5 **O&M Expenses Summary:** The actual O&M expenses for the year FY 2020-21 are summarised below:


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Table 3-9: O&M Expenses for FY 2020-21 (Rs. Cr)

Summary of O&M Expenses for FY 2020-21		
Particulars	Approved by commission	Actual
A&G Costs	13.48	17.13
R&M Expenses	10.50	11.29
Employee Cost	112.94	114.53
Total O&M Expenses for the purpose of sharing of Gains/Losses	136.92	142.96
Add: Additional expenses due to Statutory/ Change in Law payments		-
Total O&M Expenses	136.92	142.96

3.7.6 The Hon'ble Commission is requested to approve the O&M Expenses of **Rs.142.96 Cr** for FY 2020-21 as shown in the table above. The details of O&M expense for FY 2020-21 are provided in the Formats 18 (A), 19 & 20 of the Tariff Filing Formats.

3.8 Capital Work in Progress, GFA and Depreciation

3.8.1 **GFA:** The Opening Balance of GFA for FY 2020-21 comes to around **Rs.864.29 Cr** as per the financial statements for FY 2020-21. The following table shows the opening balance, additions and closing balance of GFA for FY 2020-21.

Table 3-10: GFA for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved by commission (FY 2020-21)	Actuals (FY 2020-21)
1	Opening value of the assets at the beginning of the year	864.29	864.29
2	Additions during the year	104.56	90.34
3	Less: Grant Provided by GOI	0.00	0.00
4	Value of assets sold/disposed off	0.00	0.00
5	Gross Fixed Assets at the end of the year	968.85	954.63

3.8.2 PED submits that GFA addition during FY 2020-21 is **Rs. 90.34 Cr**. For the purpose of ARR, GFA, ROE, Interest on Loan and Depreciation calculation in this petition, the consumer contribution/grant has not been considered. Accordingly, GFA addition during the year considered and claimed is **Rs. 90.34 Cr**.

3.8.3 PED hereby requests the Hon'ble Commission to approve the actual Gross Fixed Assets opening and additions as submitted above for FY 2020-21.

3.8.4 **Depreciation:** The depreciation rates as specified by CERC have been adopted for calculation of depreciation on different asset categories in accordance with the Regulation 30 of the JERC MYT Regulations, 2018.

3.8.5 Regulation 30 of the JERC MYT Regulations, 2018 stipulates the following:

"30. Depreciation

30.1 The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission:

Provided that the depreciation shall be allowed after reducing the approved original cost of the retired or replaced or decapitalized assets: In the ARR Order, the Commission approved the following asset wise depreciation rate as per the CERC Tariff Regulations, 2014:

Provided also that the no depreciation shall be allowed on the assets financed through consumer contribution, deposit work, capital subsidy or grant.

30.2 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to a maximum of 90% of the capital cost of the asset.

30.3 Land other than the land held under lease shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the assets.

30.4 In case of existing assets, the balance depreciable value as on April 1, 2019, shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to March 31, 2018, from the gross depreciable value of the assets.

30.5 The depreciation shall be chargeable from the first Year of commercial operations. In case of projected commercial operation of the assets during the Year, depreciation shall be computed based on the average of opening and closing value of assets:

Provided that depreciation shall be re-calculated during truing-up for assets capitalised at the time of truing up of each Year of the Control Period, based on documentary evidence of asset capitalised by the Applicant, subject to the prudence check of the Commission.

30.6 For Transmission Licensee, the depreciation shall be calculated at rates and norms specified in the prevalent CERC Tariff Regulations for transmission system.

30.7 The depreciation for a Distribution Licensee shall be calculated annually, based on the Straight Line Method, over the Useful Life of the asset at rates specified in Appendix I of the Regulations.

30.8 In addition to allowable depreciation, the Distribution Licensee shall be entitled to advance against depreciation (AAD), computed in the manner given hereunder:

AAD = Loan (raised for capital expenditure) repayment amount based on loan repayment tenure, subject to a ceiling of 1/10th of loan amount minus depreciation as calculated on the basis of these Regulations:

Provided that advance against depreciation shall be permitted only if the cumulative repayment upto a particular Year exceeds the cumulative depreciation upto that Year:

Provided further that advance against depreciation in a Year shall be restricted to the extent of difference between cumulative repayment and cumulative depreciation upto that Year.

30.9 The Distribution Licensee shall provide the list of assets added during each Year of Control Period and list of assets completing 90% of depreciation in the Year along with Petition for annual performance review, true-up and tariff determination for ensuing Year.

30.10 The remaining depreciable value for a Distribution Licensee shall be spread over the balance useful life of the asset, on repayment of the entire loan."

3.8.6 The rates of depreciation for various assets as used are tabulated below:

Table 3-11: Rate of Depreciation applicable for various assets

Description of Assets	Rate of Depreciation
Land & Land Rights	0.00%
Buildings	1.80%
Plant & Machinery	3.60%
Transformer	3.60%
Lines & Cables (HT & LT)	3.60%
Vehicles	18.00%
Furniture & Fixtures	6.00%
Office Equipment	6.00%
IT Equipment	6.00%
Testing & Measuring Equipment	6.00%
SCADA P&M	6.00%

3.8.7 The following table shows the depreciation arrived by PED for FY 2020-21 based on the approved depreciation rates specified by the Hon'ble Commission for different asset class.

Table 3-12: Depreciation-Normative for FY 2020-21 (Rs. Cr)

Sr. No.	Name of the Assets	Rate of Depreciation	Actual		
			FY 2020-21		
			Assets value at the beginning of the year	Addition during the Year	Depreciation charges
1	Land and Land rights	0.00%	9.39	0.98	0.00
2	Building	1.80%	22.21	2.32	0.42
3	Plant & Machinery	3.60%	485.25	50.72	18.38
4	Lines and Cables Network	3.60%	302.75	31.65	11.47
5	Vehicles	18.00%	2.42	0.25	0.46
6	Furniture and Fixtures	6.00%	0.19	0.02	0.01
7	Office Equipments	6.00%	1.08	0.11	0.07
8	IT Equipments	6.00%	2.55	0.27	0.16
9	Testing & Measuring Equipments	6.00%	4.24	0.44	0.27
10	SCADA P&M	6.00%	34.22	3.58	2.16
Total			864.29	90.34	33.40

S. No.	Particulars	Approved by Commission	Actuals
1	Opening value of the assets at the beginning of the year	864.29	864.29
2	Additions during the year	104.56	90.34
3	Value of assets sold /disposed off	0.00	0.00
4	Gross Fixed Assets at the end of the year	968.85	954.63
5	Net Depreciation for the year	33.64	33.40
6	Average Depreciation Rate	3.67%	3.50%

3.8.1 Since there are certain assets that have been depreciated to more than 90%, thus further depreciation on them is not sought on normative principles.

3.8.2 The Hon'ble Commission is requested to approve **Rs. 33.40 Cr** as depreciation for FY 2020-21.

3.9 Interest & Finance Charge

3.9.1 As per regulation 28 of JERC MYT Regulations, 2018,

"28. Interest on Loan

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28.1 The loans arrived at in the manner indicated in Regulation 26 on the assets put to use, shall be considered as gross normative loan for calculation of interest on the loan:

Provided that interest and finance charges on capital works in progress shall be excluded:

Provided further that in case of De-capitalization or retirement or replacement of assets, the loan capital shall be reduced to the extent of outstanding loan component of the original cost of the de-capitalised or retired or replaced assets, based on documentary evidence.

28.2 The normative loan outstanding as on April 1, 2019, shall be worked out by deducting the cumulative repayment as admitted by the Commission up to March 31, 2018, from the gross normative loan.

28.3 Notwithstanding any moratorium period availed by the Transmission Licensee or the Distribution Licensee, as the case may be, the repayment of loan shall be considered from the first Year of commercial operation of the project and shall be equal to the annual depreciation allowed in accordance with Regulation 30.

28.4 The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each Year applicable to the Transmission Licensee or the Distribution Licensee:

Provided that at the time of truing up, the weighted average rate of interest calculated on the basis of the actual loan portfolio during the Year applicable to the Transmission Licensee or the Distribution Licensee shall be considered as the rate of interest:

Provided also that if there is no actual loan for a particular Year but normative loan is still outstanding, the last available weighted average rate of interest for the actual loan shall be considered:

Provided further that if the Transmission Licensee or the Distribution Licensee does not have actual loan, then one (1) Year State Bank of India (SBI) MCLR / any replacement thereof as notified by RBI for the time being in effect applicable for one (1) Year period, as may be applicable as on 1st April of the relevant Year plus 100 basis points shall be considered as the rate of interest for the purpose of allowing the interest on the normative loan.

28.5 The interest on loan shall be calculated on the normative average loan of the Year by applying the weighted average rate of interest:

Provided that at the time of truing up, the normative average loan of the Year shall be considered on the basis of the actual asset capitalization approved by the Commission for the Year.

28.6 For new loans proposed for each Financial Year of the Control Period, interest rate shall be considered as lower of (i) one (1) Year State Bank of India (SBI) MCLR / any replacement thereof as notified by RBI for the time being in effect applicable for

one (1) Year period, as may be applicable as on 1st April of the relevant Year plus 100 basis points, and (ii) weighted average rate of interest proposed by the Distribution Licensee.

28.7 The above interest computation shall exclude the interest on loan amount, normative or otherwise, to the extent of capital cost funded by consumer contribution, deposit work, capital subsidy or grant, carried out by Transmission Licensee or Distribution Licensee.

28.8 The finance charges incurred for obtaining loans from financial institutions for any Year shall be allowed by the Commission at the time of Truing-up, subject to prudence check.

28.9 The excess interest during construction on account of time and/or cost overrun as compared to the approved completion schedule and capital cost or on account of excess drawal of the debt funds disproportionate to the actual requirement based on Scheme completion status, shall be allowed or disallowed partly or fully on a case to case basis, after prudence check by the Commission:

Provided that where the excess interest during construction is on account of delay attributable to an agency or contractor or supplier engaged by the Transmission Licensee, any liquidated damages recovered from such agency or contractor or supplier shall be taken into account for computation of capital cost:

Provided further that the extent of liquidated damages to be considered shall depend on the amount of excess interest during construction that has been allowed by the Commission.

28.10 The Transmission Licensee or the Distribution Licensee, as the case may be, shall make every effort to re-finance the loan as long as it results in net savings on interest and in that event the costs associated with such re-financing shall be borne by the beneficiaries and the net savings shall be shared between the equally between the beneficiaries and the Transmission Licensee or the Distribution Licensee and the Consumers of Distribution Licensee.

28.11 Interest shall be allowed on the amount held as security deposit held in cash from Retail Consumers at the Bank Rate as on 1st April of the Financial Year in which the Petition is filed:

Provided that at the time of truing-up, the interest on the amount of security deposit for the Year shall be considered on the basis of the actual interest paid by the Licensee during the Year, subject to prudence check by the Commission."

- 3.9.2 The Regulation 28 provides for Interest and Finance Charges on Loan. PED has submitted that the majority of capital assets are created out of the equity contribution from Government of Puducherry. Thus, PED has been claiming interest charges based on normative loan calculation. The Interest and Finance Charges

arrived is based on normative loan considered to the extent of capitalization during the year. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission for FY 2020-21.

Table 3-13: Interest & Finance Charges for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved	Actuals
1	Opening Normative Loan	138.50	138.50
2	Add: Normative Loan during the Year	73.19	63.24
3	Less: Normative Repayment	33.64	33.40
4	Closing Normative Loan	178.050	168.34
5	Average Normative Loan	158.27	153.42
6	Rate of Interest(@SBAR)	8.75%	8.75%
7	Interest on Normative Loan	13.85	13.42
8	Other Finance Charges	0.00	3.20
9	Total Interest and Finance Charges	13.85	16.63

- 3.9.3 It is submitted that PED has considered an addition of **Rs. 90.34 Cr** in the Gross Fixed Assets for FY 2020-21. 70% of balance asset addition is considered through normative debt. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1st April of that relevant year.
- 3.9.4 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, L/C., etc. which are claimed along with the interest.
- 3.9.5 PED requests the Hon'ble Commission to approve the Interest & Finance Charges of **Rs. 16.63 Cr** for FY 2020-21 as shown in the table above. The details of Interest & Finance charges are provided in Format 12A of the Tariff Filing Formats.

3.10 Interest on Working Capital

- 3.10.1 The Petitioner has calculated the normative interest on working capital for FY 2020-21 as per JERC MYT Regulations, 2018.
- 3.10.2 PED hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in the last tariff order for arriving at the working capital requirement.
- 3.10.3 The Interest on Working Capital approved by the Hon'ble Commission and claimed for FY 2020-21 is as shown in the table below.

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Table 3-14: Interest on Working Capital for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved	Actuals
1	Two Months Receivable	257.78	238.93
2	O&M Expense - 1 month	11.41	11.91
3	Maintenance Spare @ 40% of R&M Exp - one month	0.35	0.38
4	Less : Amount held as Security Deposit	219.94	212.66
5	Total	49.61	38.55
6	Interest Rate	9.75%	9.75%
7	Interest on working capital	4.84	3.76

3.10.4 The Interest on Working Capital approved by the Hon'ble Commission for the FY 2020-21 was **Rs. 4.84Cr**. Based on the actuals for FY 2020-21, the interest on working capital works out to be **Rs. 3.76 Cr**.

3.11 Security Deposits

3.11.1 Interest on Security Deposits has been calculated in accordance with the JERC MYT Regulations, 2018 based on the average of opening and closing consumer security deposits during the year. The opening security deposit has been derived based on the closing security deposit as approved in the True-up of FY 2019-20. The rate of interest has been considered equivalent to the prevailing RBI Bank rate. The table below provides the calculation of interest on consumer security deposits for the year.

Table 3-15: Interest on Security Deposit for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved	Actuals
1	Opening Security Deposit	210.82	210.82
2	Add: Deposits during the year	18.23	3.68
3	Less: Deposits refunded		0.00
4	Less: Deposits in the form of BG/FDR		0.00
5	Closing Security Deposit	229.05	214.51
6	Bank Rate	4.65%	4.65%
7	Interest on Security Deposit	10.23	9.89
8	Interest on Security Paid to Consumers		6.89

3.11.2 The normative Interest on Security Deposit of **Rs. 9.89 Cr** payable for FY 2020-21 as showcased in the table above. However, it is submitted that the actual interest paid to the consumers in FY 2020-21 is **Rs. 6.89 Cr** and the balance is proposed to be paid in the subsequent years. The Hon'ble Commission is requested to approve the

Interest on Security Deposit of **Rs. 6.89 Cr** actually paid as shown in the table above and balance to be approved on actual payment basis in future.

3.12 Provision for Bad Debts

3.12.1 The petitioner is not claiming any provision for bad debts in for the FY 2020-21 i.e. **NIL** and requests the Hon'ble Commission to consider the same. As provision for bad debt is allowable in ARR on the basis of actual written off bad debt.

3.13 Return on Equity

3.13.1 As per the JERC MYT Regulations 2018, RoE is allowed @16% on 30% of the capital base or actual equity, whichever is lower. However, assets funded by consumer contribution, capital subsidies/grants and corresponding depreciation shall not form part of the capital base.

3.13.2 RoE has been calculated on normative basis on the average of opening and closing of equity during the year at the rate of 16% (on post-tax basis) with an opening equity considered equivalent to the closing equity of FY 2020-21 as approved in the True-up.

3.13.3 Further, an equity addition in FY 2020-21 equal to 30% of asset capitalized in FY 2020-21 has been considered.

3.13.4 In line with the JERC MYT regulation and the methodology adopted in the previous tariff order, PED has calculated the Return on Equity as outlined in the following table for FY 2020-21.

Table 3-16: Return on Equity for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved	Actuals
1	Opening Equity Amount	259.29	259.29
2	Equity Addition during year (30% of Capitalization)	31.37	27.10
3	Closing Equity Amount	290.65	286.39
4	Average Equity Amount	274.97	272.84
5	Average Equity-Wires Business	247.47	245.55
6	Average Equity (Retail Supply Business)	27.50	27.28
7	Return on Equity for Wires Business (%)	15.50%	15.5%
8	Return on Equity for Retail Supply Business (%)	16%	16%
9	Return on Equity for Wires Business	38.36	38.06
10	Return on Equity for Retail Supply Business	4.4	4.37
11	Total Return on Equity	42.76	42.43

3.13.5 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Equity of **Rs. 42.43 Cr** for FY 2020-21.

3.14 Non-Tariff Income

3.14.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the APR for FY 2020-21 was **Rs. 5.19 Cr.**

3.14.2 The Non-Tariff Income for FY 2020-21 are as per actuals is **Rs. 3.21 Cr.** The details of non-tariff income (excluding revenue from UI power and other income) for FY 2020-21 includes Interest Income on Margin Money Deposit with Bank and Other receipts.

3.14.3 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of **Rs. 3.21 Cr** for FY 2020-21.

3.15 Revenue from Sale of Power at Existing Tariff

3.15.1 The Revenue from Tariff for FY 2020-21 was **Rs. 1,433.57 Cr.** The actual revenue earned from tariffs for FY 2020-21 is shown in the table below:

Table 3-17: Revenue from Tariff for FY 2020-21

S. No.	Particulars	Sales (MUs)	Revenue (Rs. Cr)
LT Category			
1	Domestic	806.17	265.38
2	OHOB	3.50	0.36
3	Commercial	148.50	112.15
4	Agriculture	59.99	3.44
5	Public Lighting	21.73	22.39
6	LT Industrial & Water Tank	141.95	91.85
7	Temporary Supply - LT&HT	4.43	5.37
	Total LT	1,186.27	500.94
HT Category			
9	HT 1 Industrial / Commercial	864.43	615.48
10	HT 2 - Government	53.49	50.60
11	HT 3 - EHT	413.94	245.84
12	Total HT	1331.86	911.92
13	Total LT and HT	2518.14	1412.86
14	BPSC Charges LT		
15	BPSC Charges HT		
16	Penal Charges		27.42
17	Incentives		-28.35
18	4% Surcharge		
19	Export to Other Region	3.92	3.42

S. No.	Particulars	Sales (MUs)	Revenue (Rs. Cr)
20	Consumption of this Financial Year's March billed in Next FY's April		103.40
21	Consumption of previous FY's March billed Current FY's in April		-85.18
22	Total	2,522.06	1,433.57

3.15.2 In view of above, PED requests the Hon'ble Commission to kindly allow Revenue of **Rs. 1,433.57 Cr.**

3.16 Aggregate Revenue Requirement for FY 2020-21

3.16.1 The Aggregate Revenue Requirement for FY 2020-21 as approved by the Hon'ble Commission was **Rs. 1464.79 Cr** against which the ARR for FY 2020-21 on basis of actuals is **Rs. 1470.43 Cr**. The calculation for Aggregate Revenue Requirement on the basis of actuals for FY 2020-21 is shown below:

Table 3-18: Calculation of ARR for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved by Commission	Claimed in True-up
1	Cost of power purchase	1,227.75	1227.58
2	Employee Costs	112.94	114.53
3	Administration and General Expenses	13.48	17.13
4	R&M expenses	10.5	11.29
5	Depreciation	33.64	33.40
6	Interest & Finance Charges	13.85	16.63
7	Interest on CSD	10.23	6.89
8	Interest on Working Capital	4.84	3.76
10	Return on Equity	42.76	42.43
11	Provision for Bad Debt		
12	Total Revenue Requirement	1469.98	1473.64
13	Less: Non- Tariff Income	5.19	3.21
14	Net Aggregate Revenue Requirement	1464.79	1470.43

3.16.2 The Petitioner hereby requests the Hon'ble Commission to approve the ARR of **Rs.1470.43 Cr** for FY 2020-21 as submitted above.

3.17 Revenue Gap for FY 2020-21

3.17.1 The Revenue surplus approved by the Hon'ble Commission for FY 2020-21 was **Rs. 81.91Cr.**

3.17.2 The Revenue Gap/(Surplus) as approved by the Hon'ble Commission and as calculated on the basis of actuals, for True up of FY 2020-21 is shown in the table below:

Table 3-19: Revenue Gap for FY 2020-21 (Rs. Cr)

S. No.	Particulars	Approved	Actuals
1	Aggregate Revenue Requirement	1464.79	1470.43
2	Revenue from Sale of Power	1546.70	1433.57
3	Revenue Gap/ (Surplus)	(81.91)	36.86

3.17.1 PED hereby requests Hon'ble Commission to approve the net Revenue gap of **Rs. 36.86 Cr** for FY 2020-21.

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CHAPTER 4. REVISED ANNUAL REVENUE REQUIREMENT FOR FY 2021-22

4.1 Background to FY 2021-22 Petition

- 4.1.1 PED had filed a petition for True-up for FY 2019-20 based on actual figures, along with Annual Performance review FY 2020-21 and revised Annual Revenue Requirement for FY 2021-22, before the Hon'ble Commission. Accordingly the Hon'ble Commission had issued the Tariff Order for FY 2021-22 on 07th April 2021.
- 4.1.2 This chapter summarizes each of the components of ARR for FY 2021-22 and requests the Hon'ble Commission to revise the Annual Revenue Requirement for FY 2021-22. The Revised Annual Revenue Requirement for FY 2021-22 has been prepared based on the estimated expenditures & revenue from sales for FY 2021-22 based on expected performance of PED due to the impact of COVID-19 lockdown, Business plan order given by the Commission for MYT period 2020-22, and Tariff order dated 07th April, 2021 where the Commission approved revised estimates for FY 2021-22, wherever applicable.
- 4.1.3 Since, there is a significant expected drop in the revenue from sales due to the COVID-19 lockdown, the Petitioner requests the Hon'ble Commission to allow revision in the annual revenue requirement for FY 2021-22 based on it.

4.2 Number of Consumers

- 4.2.1 Based on the methodology followed by the Commission in the Business plan order for MYT 2019-22, the Commission approved the revised estimates for the base year FY 2021-22. The Commission had approved **5.12 lakh** consumers for FY 2021-22. PED is submitting the revised estimates for FY 2021-22 in the current petition for FY 2021-22. A comparison of the revised estimates with earlier approved numbers is shown below:

Table 4-1: Details of Number of Consumers for FY 2021-22

S. No.	Particulars	Approved	FY 2021-22 Revised Estimates
1	Domestic	376518	369387
2	OHOB	8808	8248
3	Commercial	61242	57087
4	Agriculture	7102	7053
5	Public Lighting	51399	51381
6	LT Industrial & Water Tank	6717	4408
7	Total LT	511786	497564
8	HT 1 Industrial & Commercial	439	460

S. No.	Particulars	Approved	FY 2021-22 Revised Estimates
9	HT 2 Government	108	65
10	HT 3 EHT	7	8
11	Total HT	554	533
12	Total LT and HT	512340	498097

4.2.2 It is requested to the Hon'ble Commission to consider the revised number of consumers as submitted in the above table for FY 2021-22.

4.3 Energy Sales

4.3.1 The Commission approved sales of **2804.14** MUs in ARR order for FY 2021-22. In the current petition for FY 2021-22, PED has revised the estimated sales as per the in-line with the expected sales performance of PED due to the impact of COVID-19 lockdown. The revised sales for FY 2020-21 are **2773.64** MUs. PED submits the revised sales figure for FY 2021-22.

Table 4-2: Sales for FY2021-22 (MUs)

S. No.	Particulars	Approved in T.O.	FY 2021-22 Revised Estimates
1	Domestic	833.17	806.72
2	OHOB	0.32	3.50
3	Commercial	211.33	204.88
4	Agriculture	62.94	61.71
5	Public Lighting	24.83	19.00
6	LT Industrial & Water Tank	164.45	164.39
7	Temporary Supply - LT&HT	4.75	4.96
8	Total LT	1301.79	1265.16
9	HT 1 Industrial & Commercial	1005.59	1005.59
10	HT 2 Government	74.10	74.10
11	HT 3 EHT	422.66	428.79
12	Total HT	1502.35	1508.48
13	Total LT and HT	2804.14	2773.64

4.3.2 It is requested to Hon'ble Commission to approve the revised sales of **2773.64** MUs for FY 2021-22.

4.4 Distribution Loss & Energy Requirement

4.4.1 The Hon'ble Commission had approved energy loss of **11%** in the Business Plan for

the second MYT control period FY2019-20 to FY 2021-22 and subsequently in Tariff order dated 07th April, 2021. PED has considered the T & D loss of **11.50%** for FY 2021-22 considering the loss level of FY 2020-21 i.e., 12.00%. Energy balance based on revised estimate of sales and power purchase and are given in the table below –

Table 4-3: Distribution Loss and Energy Balance for FY 2021-22

Sr. No.	Particulars	(Revised Estimates)
		FY 2021-22
A)	ENERGY REQUIREMENT	
1	Energy sales to metered category within the State	2,773.64
2	Energy exported to TANGEDCO	-
3	Total sales within the State	2,773.64
4	T&D Losses (%)	11.50%
5	T&D Losses (MU)	360.42
6	Energy required at Discom Periphery	3,134.06
B)	ENERGY AVAILABILITY	
1	Net Power Purchase (ex Bus)	2,993.11
2	Own Generation (PPCL)	240.00
3	Power Purchase from Renewable sources	-
4	Power purchase from Common Pool / UI-over drawl / Traders / Exchange / Others	8.46
5	UI Under drawl	32.68
6	Open Access Power Purchase at periphery	-
7	Net Power Purchased (1+2+3+4-5+6)	3,208.89
8	Transmission Losses	74.83
9	Transmission Losses (%)	2.50%
10	Total Energy Availability (7-8)	3,134.06
11	Deficit/(Surplus)	-

4.4.2 PED submits that it has been achieving significant reduction in distribution losses and is having one of the lower T&D losses in India. These efforts shall be continued and will be enhanced. However, the loss reduction is a slow process after reaching at certain level and can happen after deployment of latest technological and advanced infrastructure developments are in place.

4.4.3 PED requests the Hon'ble Commission to approve the above Energy Balance for FY 2021-22.

4.5 Power Purchase Quantum

4.5.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and PPCL. PPCL is a generating company within the UT of Puducherry catering to the partial requirement of Karaikal region of PED. The details

of power purchase quantum and cost are provided in Format 4 of the Regulatory Formats.

4.5.2 The actual power purchase quantum for H1 of FY 2021-22 is **1768.59 MU** and power purchase cost of **Rs.423.28 Cr.** However, for the purpose of the estimation of purchase quantum for H2 for FY 2021-22, PED has considered the revised estimates in line with the actual Power Purchase quantum in FY 2019-20. However, the per unit Cost of power purchase for each power source as per the estimated actual power purchase cost in FY 2021-22 H1 has been considered for estimating power purchase cost for FY 2021-22 H2.

4.5.3 PED further submits that the estimated transmission/PGCIL losses for FY 2021-22 are **2.50%**. PED requests the Hon'ble Commission to approve the same.

4.5.4 Accordingly, the revised estimated power purchase quantum for FY 2021-22 is **3233.11 MU**.

4.6 Cost of Power Purchase for FY 2021-22

4.6.1 **Power Purchase quantum for FY 2021-22:** For the year FY 2021-22, PED has considered the revised estimates of power purchase quantum in line with the estimated actual power purchase quantum in FY 2021-22 H1 & based on the half-yearly power purchase quantum in FY 2019-20 (since it is normal operating year) for FY 2021-22 H2. The revised power purchase quantum for FY 2021-22 is **3233.11 MU**.

4.6.1.1 PGCIL losses: PED submits that the estimated transmission/PGCIL losses for FY 2021-22 are **2.50%**. PED requests the Hon'ble Commission to approve the same. For PPCL, the external losses have been considered as nil as they are within the periphery of the licensee area.

4.6.1.2 Transmission Charges: The petitioner has considered the actual transmission charges paid by the Petitioner for H1 FY2021-22 in this Petition and has accordingly calculated the transmission charges for FY 2021-22 as a whole.

4.6.2 Renewable Purchase Obligations

4.6.2.1 As per JERC (Procurement of Renewable Energy) Regulations, 2010 clause 1 sub clause (1):

"Each distribution licensee shall purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year."

- 4.6.2.2 The RPO requirements as per the JERC (Procurement of Renewable Energy) third Amendment Regulations dated 22nd August 2016 has been considered for FY2020-21.
- 4.6.2.3 The Petitioner has to purchase a certain percentage of total energy purchase for sale to the consumers in its area from renewable energy sources with specific solar and non-solar RPO content.
- 4.6.2.4 The cumulative RPO obligation pending as on 1.4.2021 was **991.72** MUs (450.56 MUs Solar & 541.16 MUs Non-Solar). The Total RPO Obligation for FY 2021-22 is **17.00%** (i.e. **8.00%** Solar & **9.00%** Non-Solar) amounting to stand alone obligation of **471.52** MUs for FY 2021-22 (**221.89** MU Solar & **249.63** MUs Non-Solar).
- 4.6.2.5 PED has tied up long term agreement with SECI for 290 MW of Renewable which consists of 50 MW of Solar Power and 240 MW of Wind Power. Further PED has also tied up with NTPC Solar for procurement of 100 MW solar power for 25 years. These tied up sources will enable PED to fulfil the cumulative backlog RPO. Since REC is mere a certificate which cannot cater load demand, buying REC would not be so economical as buying physical RE power which caters the actual load demand.

Table 4-4: RPO Compliance for FY 2021-22

S.No	Description	Unit	Previous year	Current Year
			FY 2020-21	FY 2021-22
1	Sales Within State	MUs	2,522.06	2,773.64
2	RPO Obligation	%	14.10%	17.00%
	- Solar	%	6.00%	8.00%
	- Non Solar	%	8.10%	9.00%
3	RPO Obligation	MUs	355.61	471.52
	- Solar	MUs	151.32	221.89
	- Non Solar	MUs	204.29	249.63
4	RPO Purchase	MUs	10.60	34.00
	Physical Power			
	- Solar	MUs	10.60	34.00
	- Non Solar	MUs	-	-
	Renewable Energy Certificate			
	- Solar	MUs	-	-
	- Non Solar	MUs	-	-
5	Cumulative RPO Obligation			
	- Solar	MUs	450.56	638.46
	- Non Solar	MUs	541.16	790.78

4.6.2.6 As outlined in the above table, PED envisages to comply with the cumulative backlog RPO obligation for FY 2021-22 with the tied up RE sources. PED has installed capacity roof top solar of 26 MW within the UT and is in process of developing renewable (both solar & non-solar) power sources within the UT to meet its RPO obligation through physical renewable energy in future.

Table 4-5: Power Purchase Cost for FY 2021-22

S. No.	Particulars	Actuals (FY 2021-22) - H1			Revised Estimates (FY 2021-22) - H2			Revised Estimates (FY 2021-22)		
		Purchase (MUs)	Cost (Rs. Cr.)	Rate (Rs./unit)	Purchase (MUs)	Cost (Rs. Cr.)	Rate (Rs./unit)	Purchase (MUs)	Cost (Rs. Cr.)	Rate (Rs./unit)
1	NTPC	623.54	206.35	3.31	612.77	204.12	3.33	1236.32	410.46	3.32
2	NTPL	54.65	34.75	6.36	58.13	34.93	6.01	112.78	69.67	6.18
3	NLC	396.83	148.43	3.74	387.00	140.74	3.64	783.83	289.17	3.69
4	PPCL	119.89	48.44	4.04	120.11	41.10	3.42	240.00	89.54	3.73
5	KAIGA	139.76	48.20	3.45	157.82	55.00	3.49	297.58	103.20	3.47
6	NTPC - MAPS	4.03	1.02	2.52	4.07	0.99	2.43	8.10	2.00	2.47
7	NTECL	39.03	28.13	7.21	39.42	28.32	7.19	78.45	56.45	7.20
8	KKNP	220.32	90.00	4.09	179.54	68.30	3.80	399.86	158.30	3.96
9	NNTPS	170.53	69.26	4.06	117.47	47.80	4.07	288.00	117.06	4.06
10	Open market									
11	OA Power purchase/ (Sale)				(211.8)	(46.60)		(215.86)	(47.49)	
12	PGCL (POC Charges)		74.04			17.97			91.89	
13	SRIDC Charges									
14	Total Power Purchase Cost	1768.59	748.61	4.23	1464.53	592.66	4.05	3233.11	1341.28	4.15
15	URS Income									
16	UI/DSM Charges									
17	RARS Charges									
18	Sub-total (Additional Income)									
19	Net Power Purchase Cost	1768.59	748.61	4.23	1464.53	592.66	4.05	3233.11	1341.28	4.15

4.6.3 The Petitioner hereby requests the Commission to approve the revised estimate of power purchase cost of **Rs. 1341.28 Cr** for FY 2021-22 as submitted above.

4.7 Operation & Maintenance Expenses

4.7.1 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense:

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses

- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- Repairs and Maintenance Expenses go towards the day-to-day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as well as in the reduction of losses in the system.

4.7.2 Employee Expenses:

4.7.2.1 The employee expenses for FY2021-22 were approved by the Hon'ble Commission in the Tariff Order dated 07th April, 2021 as **Rs. 116.31 Cr.**

4.7.2.2 PED has projected normative Employee Expenses for FY 2021-22 as **Rs. 114.18Cr** based on the relevant Regulations and methodology adopted by the Hon'ble Commission in the Tariff Order dated 7th April 2021.

4.7.2.3 PED has considered the base year figures for the FY 2020-21 as per the actual incurred employee expense of **Rs. 114.53 Cr** and the same have been escalated by Growth Rate determined based on the manpower plan and the average CPI Inflation of the last three years to arrive upon the employee expenses of FY 2021-22.

4.7.2.4 PED further submits that the from the Month of Sept 2021 the CPI Index base value has been updated to 2016=100 from 2001=100, so only 5 months CPI index for FY 2020-21 has been considered for computation of Average increase in CPI index over 3 years. The Computation of revised employee expenses are as shown in the below table:

Table 4-6: Computation of Employee Expenses for FY 2021-22

Particulars	FY 2018-19	FY 2019-20	FY 2020-21
CPI based on Industrial Workers, All India	299.92	322.50	333.00
YoY	5.45%	7.53%	3.26%
3 years average			5.41%

Particulars	FY 2021-22
Growth factor of (Gn) (%)	-5.42%
CPI (%) (3 previous years' avg.)	5.41%
Employee Expenses for FY 2020-21 (Rs. Cr)	114.53
Employee Expenses for FY 2021-22 (Rs. Cr)	114.18

4.7.2.5 PED requests the Hon'ble commission to kindly allow the above Employee Costs of **Rs. 114.18 Cr** for FY 2021-22, subject to true-up.

4.7.3 Repairs & Maintenance Expenses:

4.7.3.1 The Repair & Maintenance expenses of **Rs.11.77Cr** for FY 2021-22 were approved by the Hon'ble Commission in the Tariff Order dated 07th April, 2021.

4.7.3.2 The petitioner submits that the normative R&M expenses are computed based on the relevant Regulations and methodology adopted by the Hon'ble Commission.

4.7.3.3 The K factor considered for computation of R&M expenses is 0.90% which is the average K factor computed for FY 2018-19, FY 2019-20 and FY 2020-21. The WPI for FY 2021-22 has been considered as 2.42%, which is average WPI for FY 2018-19, FY 2019-20 and FY 2020-21. Detailed computation of the R&M for FY 2021-22 is shown below.

Table 4-7: Computation R&M Expenses for FY 2021-22

K factor working	FY 2018-19	FY 2019-20	FY 2020-21
R&M expenses (Actual) (Rs. Cr)	4.47	5.98	11.29
Opening GFA (Rs. Cr)	690.27	799.51	864.29
K factor (%)	0.65%	0.75%	1.31%
Avg of K factor (%)	0.90%		

Particulars	FY 2021-22
WPI Inflation (%)	2.42%
K factor (%)	0.90%
GFA-1 (Rs. Cr)	864.29
R&M Expenses (Rs. Cr)	7.98

4.7.3.4 In view of the above, the Hon'ble Commission is requested to kindly allow the above Repair and Maintenance Expenses of **Rs.7.98 Cr** for FY 2021-22, subject to true-up.

4.7.4 Administration & General expenses for FY 2021-22:

4.7.4.1 The Administration & General expenses of **Rs. 14.20 Cr** for FY 2021-22 were approved by the Hon'ble Commission in the Tariff Order dated 07th April, 2021.

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4.7.4.2 PED has considered the base year figures for the FY 2020-21 as per the actual incurred A&G expenses of **Rs. 17.13 Cr** and the same have been escalated by Growth Rate determined based the average CPI Inflation of the last three years to arrive upon the employee expenses of FY 2021-22.

4.7.4.3 The Computation of A&G expenses for FY 2021-22 is as shown in the below table:

Table 4-8: A&G Expenses for FY 2021-22 (Rs. Cr)

Particulars	FY 2021-22
A&Gn-1 (Rs. Cr)	17.13
CPI Inflation (%)	5.41%
A&G Expenses (Rs. Cr)	18.06

4.7.5 **O&M Expenses Summary FY 2021-22:** Based on the foregoing paragraphs, the revised O&M expenses for the year FY 2021-22 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

Table 4-9: O&M Expenses for FY 2021-22 (Rs. Cr)

Summary of O&M Expenses for FY 2021-22		
Particulars	Approved by commission	Revised Estimates
A&G Costs	14.20	18.06
R&M Expenses	11.77	7.98
Employee Cost	116.31	114.18
Total O&M Expenses	142.28	140.21

4.7.6 PED request the Hon'ble Commission to approve the O&M Expenses of **Rs.140.21 Cr** as shown in the table above.

4.8 Capital Work in Progress, GFA and Depreciation

4.8.1 **GFA:** The Opening Balance of GFA for FY 2021-22 works out to be **Rs. 954.63 Cr**. The Hon'ble Commission, in the last tariff order had allowed Capitalization of **Rs. 100 Cr**.

4.8.2 PED has estimated the additional capitalisation of **Rs.35.00Cr** for FY 2021-22 as against **Rs.100.00 Cr** as approved by the Hon'ble Commission. Thus, the Petitioner requests the Hon'ble commission to approve the additions to GFA for FY 2021-22 of **Rs.35.00 Cr** as provided in the table below:

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Table 4-10: GFA Revised Estimates for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved by commission	Revised Estimates
1	Opening value of the assets at the beginning of the year	968.85	954.63
2	GFA Additions during the year	100.00	35.00
3	Grant Provided by GOI	-	-
4	Value of assets sold/disposed off	-	-
5	Gross Fixed Assets at the end of the year (Net of Grants)	1068.85	989.63

Sr. No.	Name of the Assets	Rate of Depreciation	Revised Estimates		
			FY 2021-22		
			Assets value at the beginning of the year	Addition during the Year	Depreciation charges
1	Land and Land rights	0.00%	10.37	0.38	-
2	Building	1.80%	24.53	0.90	0.45
3	Plant & Machinery	3.60%	535.98	19.65	19.65
4	Lines and Cables Network	3.60%	334.39	12.26	12.26
5	Vehicles	18.00%	2.67	0.10	0.49
6	Furniture and Fixtures	6.00%	0.21	0.01	0.01
7	Office Equipments	6.00%	1.19	0.04	0.07
8	IT Equipments	6.00%	2.82	0.10	0.17
9	Testing & Measuring Equipments	6.00%	4.68	0.17	0.29
10	SCADA Centre	6.00%	37.79	1.39	2.31
	Total		954.63	35.00	35.70

4.8.3 PED hereby requests the Hon'ble Commission to approve the revised estimates for Gross Fixed Assets as submitted above.

4.8.4 **Depreciation:** As per JERC MYT Regulations 2018, the depreciation rates as specified have been adopted for calculation of depreciation on different asset categories.

- 4.8.5 As per the GFA and the applicable depreciation rates, PED has calculated the depreciation for the year FY 2021-22 as **Rs. 35.70 Cr.** The table shows the working of depreciation.

Table 4-11: Depreciation for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved by Commission	Revised Estimates
1	Opening value of the assets at the beginning of the year	968.85	954.63
2	Additions during the year (Net of Grants)	100.00	35.00
3	Value of assets sold /disposed off		
4	Gross Fixed Assets at the end of the year (Net of Grants)	1068.85	989.63
5	Net Depreciation for the year	37.39	35.70
6	Average Depreciation Rate	3.67%	3.61%

- 4.8.6 PED hereby requests the Commission to approve the revised estimates of depreciation as submitted above.

4.9 Interest & Finance Charge

- 4.9.1 The petitioner has estimated the Interest and Finance charges as per the JERC MYT Regulations, 2018 for the year FY 2021-22.
- 4.9.2 PED has submitted that most capital assets are created out of the equity contribution from Government of Puducherry and the actual borrowing of loan is only to the extent of the R-APDRP schemes. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission. The Interest and Finance Charges as per the revised estimates for FY 2021-22 is **Rs.16.38 Cr.** The summary of Interest and Finance Charges as claimed by the petitioner and as approved by the Commission for FY 2021-22 along with revised estimates is tabulated below:

Table 4-12: Interest & Finance Charges for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved	Revised Estimates
1	Opening Normative Loan	178.05	168.34
2	Add: Normative Loan during the Year	70.00	24.50
3	Less: Normative Repayment	37.39	35.70
4	Closing Normative Loan	210.66	157.14

S. No.	Particulars	Approved	Revised Estimates
5	Average Normative Loan	194.35	162.74
6	Rate of Interest (@SBI 1 Year MCLR rate+100 Basis Points)	8.00%	8.00%
7	Interest on Normative Loan	15.55	13.02
8	Other Finance Charges	0.00	3.36
9	Total Interest and Finance Charges	15.55	16.38

4.9.3 It is submitted that PED has estimated an addition of **Rs.35.00 Cr** in the Gross Fixed Assets for FY 2021-22, which are funded through normative debt to the tune of 70%. The rate of interest considered is one (1) Year State Bank of India (SBI) MCLR applicable as on 1st April of the FY 2021-22 plus 100 basis points.

4.9.4 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, etc. which are claimed along with the interest in Table above.

4.9.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges at **Rs. 16.38 Cr** as shown in the table for FY 2021-22. The details of Interest & Finance charges are provided in Format 12A of the Tariff Filing Formats.

4.10 Interest on Working Capital

4.10.1 The petitioner has estimated the interest on working capital for FY 2021-22 as per JERC MYT Regulations, 2018.

4.10.2 PED hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in the last tariff order for arriving at the working capital requirement.

4.10.3 The Interest on Working Capital approved by the Hon'ble Commission for the FY 2021-22 was **Rs.5.78 Cr**. On the basis of the revised estimates for FY 2021-22, the interest on working capital works out to be **Rs.5.45 Cr**.

4.10.4 The interest rate has been considered as 9.00% (SBI 1 year MCLR applicable as on 1st April 2021 i.e. 7.00% + 200 basis points). The computation of interest on working capital is shown in the following table:

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Table 4-13: Interest on Working Capital for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved	Revised Estimates
1	Two Months Receivable	285.68	265.08
2	O&M Expense - 1 month	11.86	140.21
3	Maintenance Spare @ 40% of R&M Exp - one month	0.39	0.27
4	Less : Amount held as Security Deposit	238.62	216.44
5	Total	59.30	60.59
6	Interest Rate (%)	9.75%	9.00%
7	Interest on working capital	5.78	5.45

4.10.5 PED requests the Hon'ble Commission to approve the Interest on Working Capital of **Rs.5.45 Cr** as shown in the table above.

4.11 Security Deposits

4.11.1 The prevailing Bank rate is considered as notified by Reserve Bank of India with effect from 1st April of the relevant financial year for estimating the normative interest on Security Deposits for FY 2021-22.

Table 4-14: Interest on Security Deposit for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved	Revised Estimates
1	Opening Security Deposit	229.05	214.51
2	Add: Deposits during the year	19.14	3.87
3	Closing Security Deposit	248.19	218.38
4	Bank Rate	4.65%	4.25%
5	Interest on Security Deposit	11.10	9.20

4.11.2 The Hon'ble Commission is requested to approve the Interest on Security Deposit of **Rs. 9.20 Cr** as shown in the table above which is expected to be paid during the year.

4.12 Provision for bad debts

4.12.1 PED is not claiming any provision for bad & doubtful debts in the ARR of FY 2021-22 for pass through in tariff to consumers and may consider during true-up of the FY 2021-22 as per audited financial statements.

4.12.2 The Hon'ble Commission is requested to kindly approve the same.

4.13 Return on Equity

4.13.1 The JERC MYT Regulations 2018 provides for entitlement for Return on Equity. As

per the regulations, RoE is allowed @16% on 30% of the capital base or actual equity, whichever is lower. However, assets funded by consumer contribution, capital subsidies/grants and corresponding depreciation shall not form part of the capital base.

4.13.2 In line with the methodology adopted by the Hon'ble Commission in previous tariff orders, the capital base for closing of the FY 2020-21 as per the last chapter is considered. Further, an equity addition in FY 2021-22 equal to 30% of estimated assets to be capitalized in FY 2021-22 has been considered.

4.13.3 In line with the JERC MYT regulation 2018 and the methodology adopted in the previous tariff order, PED has calculated the Return on Equity as outlined in the following table for FY 2021-22.

Table 4-15: Return on Equity for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved	Revised Estimates
1	Opening Equity Amount	290.65	286.39
2	Equity Addition during year (30% of Capitalization)	30	10.50
3	Closing Equity Amount	320.65	296.89
4	Average Equity Amount	305.65	291.64
5	Average Equity-Wires Business	275.09	262.48
6	Average Equity (Retail Supply Business)	30.57	29.16
7	Return on Equity for Wires Business (%)	15.50%	15.50%
8	Return on Equity for Retail Supply Business (%)	16.00%	16.00%
9	Return on Equity for Wires Business	42.64	40.68
10	Return on Equity for Retail Supply Business	4.89	4.67
11	Total Return on Equity	47.53	45.35

4.13.4 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Equity of **Rs. 45.35 Cr.**

4.14 Non-Tariff Income

4.14.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the ARR for FY 2021-22 was **Rs. 5.19 Cr.**

4.14.2 The Non-Tariff Income for FY 2021-22 is estimated of **Rs.3.38 Cr.** PED requests the Hon'ble Commission to approve the afore-mentioned Non-tariff Income for FY 2021-22.

4.15 Revenue from Sale of Power at Existing Tariff

4.15.1 The Revenue from Tariff for FY 2021-22 approved by the Hon'ble Commission was **Rs.1714.07 Cr.** The Revenue from Tariff for FY 2021-22 as per the approved tariff for FY 2021-22 with revised projections works out to be **Rs.1590.49 Cr.** The summary of Revenue from Tariff as claimed by PED in the ARR for FY 2021-22 as per revised estimates for FY 2021-22, is tabulated below:

Table 4-16: Revenue from Tariff for 2021-22

S. No.	Particulars	Sales (MUs)	Revenue (Rs. Cr)
LT Category			
1	Domestic	806.72	267.09
2	OHOB	3.50	0.37
3	Commercial	204.88	159.81
4	Agriculture	61.71	3.49
5	Public Lighting	19.00	20.69
6	LT Industrial & Water Tank	164.39	114.56
7	Temporary Supply - LT&HT	4.96	5.08
	Total LT	1,265.16	571.10
HT Category			
9	HT 1 Industrial / Commercial	1005.59	696.11
10	HT 2 – Government	74.10	64.57
11	HT 3 – EHT	428.79	258.71
12	Total HT	1508.48	1019.40
13	Total LT and HT	2773.64	1590.49

4.15.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of **Rs. 1590.49 Cr** (including Regulatory Surcharge of 5%) for FY 2021-22.

4.16 Aggregate Revenue Requirement for FY 2021-22

4.16.1 The Aggregate Revenue Requirement for FY 2021-22 approved by the Hon'ble Commission in the Tariff order for FY 2021-22 was **Rs.1621.27 Cr.** The calculation for Aggregate Revenue Requirement on the basis of revised estimates for FY 2021-22 is shown below:

Table 4-17: Calculation of ARR for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved by Commission	Revised Estimates
1	Cost of power purchase	1,366.83	1,341.28
2	Employee Costs	116.31	114.18
3	Administration and General Expenses	14.20	18.06

S. No.	Particulars	Approved by Commission	Revised Estimates
4	R&M expenses	11.77	7.98
5	Depreciation	37.39	35.70
6	Interest & Finance Charges	15.55	16.38
7	Interest on Working Capital	5.78	5.45
8	Interest on CSD	11.10	9.20
9	Return on Equity	47.53	45.35
10	Provision for Bad Debt	0.00	0.00
11	Total Revenue Requirement	1,626.46	1,593.58
12	Less: Non- Tariff Income	5.19	3.38
13	Net Aggregate Revenue Requirement	1,621.27	1,590.20

Table 4-18: Segregation of Wheeling and Supply Business FY 2021-22

Sr. No.	Item of expense	Wheeling Business	Retail Supply Business	FY 2021-22		
		%	%	Wheeling Business (Rs. Cr)	Retail Supply Business (Rs. Cr)	Total (Rs. Cr)
1	Cost of power purchase	0%	100%	-	1,341.28	1,341.28
2	Employee costs	40%	60%	45.67	68.51	114.18
3	R&M expenses	90%	10%	7.18	0.80	7.98
4	Administration and General expenses	50%	50%	9.03	9.03	18.06
5	Depreciation	90%	10%	32.13	3.57	35.70
6	Interest & Financial charges	90%	10%	14.74	1.64	16.38
7	Interest on Working Capital	10%	90%	0.55	4.91	5.45
8	Return on NFA /Equity	90%	10%	40.82	4.54	45.35
9	Provision for Bad Debt	0%	100%	-	-	-
10	Interest on Consumer Security Deposit	10%	90%	0.92	8.28	9.20
11	Total Revenue Requirement			151.03	1,442.54	1,593.58
12	Less: Non-Tariff Income	10%	90%	0.34	3.04	3.38
13	Net Revenue Requirement			150.70	1,439.51	1,590.20

4.16.2 PED hereby requests the Hon'ble Commission to approve the revised ARR of Rs.1590.20 Cr for FY 2021-22 as submitted above.

4.17 Revenue Gap for FY 2021-22

4.17.1 The Revenue Gap/(Surplus) approved by the Hon'ble Commission for FY 2021-22 and as claimed by PED on the basis of revised estimates for FY 2021-22 is shown in the table below:

Table 4-19: Revenue Gap/(Surplus) for FY 2021-22 (Rs. Cr)

S. No.	Particulars	Approved	Revised Estimates
1	Aggregate Revenue Requirement	1621.27	1590.20
2	Revenue from Sale of Power	1714.07	1590.49
3	Revenue Gap/ (Surplus)	(92.80)	(0.29)

4.17.2 In view of above, the Hon'ble Commission is requested to kindly allow the revenue surplus of FY 2021-22 as **Rs.0.29 Cr.**


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CHAPTER 5. ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD

5.1 Preamble

- 5.1.1 The Joint Electricity Regulatory Commission notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Multi Year Distribution Tariff) Regulations, 2021. As per the same, the Hon'ble Commission shall determine the tariff for the distribution business of electricity under a Multi-Year Tariff framework with effect from April, 2022.
- 5.1.2 As per JERC MYT Regulations, 2021, MYT petition for a licensee shall be on the basis of the business plan approved by the Hon'ble Commission. The control period is defined as:
"18. "Control Period" shall mean the period of three years from April 1, 2022 to March 31, 2025."
- 5.1.3 The said JERC MYT Regulations 2021 directs the Distribution license to submit their Multi-Year Business Plan for the Control Period FY 2022-23 to FY 2024-25, which Electricity Department, Puducherry is submitting along with this MYT petition.
- 5.1.4 This MYT petition is being filed by the petitioner for the Control Period i.e. FY 2022-23 to FY 2024-25. This chapter provides the details of the expenditure estimates of PED which are the components of the ARR for the entire Control Period from FY 2022-23 to FY 2024-25 which are proposed to be approved by the Hon'ble Commission. Accordingly, the revenue from the existing tariff with the Revenue gap / (surplus) is determined so as to propose the tariff design / proposal for recovery from the consumers during the MYT control period.

5.2 Principles for determination of ARR for MYT period

- 5.2.1 This Chapter summarises the Aggregate Revenue Requirement (ARR) for the MYT control period FY 2022-23 to FY 2024-25. The projections for the control period have been made based on the figures and norms approved by the Hon'ble Commission in its Business plan order. The various components of ARR are determined in the following chapters in line with the JERC MYT Regulations 2021.
- 5.2.2 PED would like to submit that the Business Plan was prepared keeping in mind the growth plan for the MYT Control Period after considering the strengths and weaknesses of the department and evaluating its business environment.

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5.2.3 However, as mentioned above and in the MYT Business Plan, there are number of internal and external factors which affect the planning of the department and thus, it makes this a very dynamic document and which calls for regular reviews of the plan with a view to introduce any corrections commensurate to the actual implementation of the schemes and other factors.

5.2.4 The Annual Revenue Requirement for the MYT Control Period is projected based on the methodology followed in the Business plan petition as submitted by PED.

5.3 Sales for the Control Period

5.3.1 Based on the projections and analysis of the past sales and number of consumers, the category wise growth rate of the sales and the number of consumers proposed by PED in Business plan order is mentioned below.

Table 5-1: Category-wise growth rate proposed for Sales and Number of Consumers for the Control Period

Consumer Category	Sales	Consumer	Connected Load
Domestic & Cottage	2.50%	4.60%	3.00%
OHOB /Life Line Services	0.00%	0.00%	0.00%
Commercial	0.57%	3.00%	1.85%
Agriculture	0.50%	0.50%	0.40%
Public Lighting	0.00%	0.97%	0.45%
LT Industrial + water Tank	2.00%	1.80%	0.50%
HT-1 Industrial and commercial	1.27%	2.00%	1.00%
HT-2 Government & non-Industrial & non-Commercial	3.58%	1.00%	3.00%
HT 3 - EHT Industries	2.00%	10.00%	2.71%
EV Charging Station	-	-	-
Hoarding /Sign Board	-	-	-

5.3.2 The sales, number of consumers and connected load projected by the petitioner for the Control period is given below.

Table 5-2: Sales projected for MYT Control Period (in Mus)

S. No.	Particulars	Sales Projections (MU)		
		FY 2022-23	FY 2023-24	FY 2024-25
1	Domestic	826.89	847.56	868.75
2	OHOB	3.50	3.50	3.50
3	Commercial	210.00	215.25	220.63
4	Agriculture	61.17	62.06	62.37
5	Public Lighting	17.50	17.50	17.50
6	LT Industrial	167.65	170.97	174.36
7	Temporary supply - LT&HT	5.06	5.16	5.27

S. No.	Particulars	Sales Projections (MU)		
		FY 2022-23	FY 2023-24	FY 2024-25
8	HT I	1018.35	1031.28	1044.36
9	HT II	76.75	79.50	82.35
10	HT III	437.36	446.11	455.03
	Total	2824.25	2878.90	2934.13

Table 5-3: Number of Consumers projected for MYT Control Period

S. No.	Particulars	No. of Consumers Projections		
		FY 2022-23	FY 2023-24	FY 2024-25
1	Domestic	380468.45	391882	403639
2	OHOB	8248.00	8248	8248
3	Commercial	58143.18	59219	60315
4	Agriculture	7077.65	7102	7127
5	Public Lighting	52922.71	54510	56146
6	LT Industrial	4429.97	4452	4474
7	Temporary supply - LT&HT	0.00	0	0
8	HT I	464.11	469	473
9	HT II	66.84	69	71
10	HT III	8	9	9
	Total	511829	525960	540501

Table 5-4: Connected Load (kW/KVA/HP) projected for MYT Control Period

S. No.	Particulars	Connected Load (kW/kVA/HP) Projections		
		FY 2022-23	FY 2023-24	FY 2024-25
1	Domestic	663845	694386	726332
2	OHOB	2843	2843	2843
3	Commercial	154893	159539	164326
4	Agriculture	60602	60905	61209
5	Public Lighting	6419	6481	6544
6	LT Industrial	136671	139130	141633
7	Temporary supply - LT&HT	0	0	0
8	HT I	238424	243193	248057
9	HT II	23646	23882	24121
10	HT III	40363	40363	40363
	Total	13,27,706.1	13,70,722.9	14,15,428.2

5.4 Distribution Loss

5.4.1 PED is taking utmost efforts to reduce the distribution losses, during recent years. These efforts shall be continued and will be enhanced. However, the loss reduction

is a slow process and as the loss levels come down further reduction in loss becomes difficult to a large extent. The loss reduction trajectory projected by the petitioner is mentioned below and the same has been considered for projecting Energy requirement at the periphery.

Table 5-5: Loss reduction trajectory for the MYT Control Period

Particulars	Projections		
	FY 2022-23	FY 2023-24	FY 2024-25
T&D loss	11.00%	10.75%	10.50%

5.5 Energy Balance

5.5.1 While calculating energy balance of PED the sales to its own consumers and the estimated Distribution Loss envisaged during the MYT Control period is considered to determine the power requirement to meet the demand of own consumers.

5.5.2 Based on the projected Sales and distribution loss trajectory during MYT Control period, the Energy requirement projected is shown in the following table:

Table 5-6: Energy Requirement & Energy Balance proposed for the MYT Control Period

S.No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
A	ENERGY REQUIREMENT			
1	Sales within UT (MU)	2824.25	2878.90	2934.13
4	T&D Loss (%)	11.00%	10.75%	10.50%
5	Loss(MU)	349.06	346.76	344.23
7	Energy requirement at periphery(MU)	3,173.31	3,225.66	3,278.36
B	ENERGY AVAILABILITY			
1	Gross Energy Purchase	3238.46	3281.81	3335.86
2	PGCIL Loss (%)	2.50%	2.50%	2.50%
3	External Loss (MU)	65.14	56.16	57.51
4	Net Energy Availability	3,173.31	3,225.66	3,278.36

5.5.3 PED request the Hon'ble Commission to approve the Energy Balance for the MYT Control period as submitted in this petition.

5.6 Power Purchase Quantum

5.6.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and PPCL. PPCL is a generating company within the UT of Puducherry catering to the partial requirement of Karaikal region of PED. PED also has an additional allocation of power from New Neyveli Thermal Power Station to meet the demand of the Union Territory from the year 2019-20.

- 5.6.2 The petitioner envisages supply from 150 MW of solar power and 240 MW from wind power sources.
- 5.6.3 PED submits that it has executed a Power Sale Agreement (PSA) on 24th October 2019 with SECI for Procurement of 50 MW Solar Power (Tranche II) for 25 years at a fixed tariff for Rs. 2.44/kWh plus trading margin of Rs. 0.07/kWh for fulfilment of Solar RPO. Accordingly, PED had filed a petition before the Hon'ble Commission for approval of purchase of solar Power capacity of 50 MW and adoption of tariff. The Hon'ble Commission vide its order dated 09th September 2021 has accorded its approval for adoption of said PSA.
- 5.6.4 PED submits that it has executed a Power Sale Agreement (PSA) on 05th February 2019 with SECI for Procurement of 100 MW Wind Power (Tranche V) for 25 years at a fixed tariff for Rs. 2.77/kWh plus trading margin of Rs. 0.07/kWh for fulfilment of Non-Solar RPO. Accordingly, PED had filed a petition before the Hon'ble Commission for approval of purchase of wind Power capacity of 100 MW and adoption of tariff. The Hon'ble Commission vide its order dated 09th September 2021 has accorded its approval for adoption of said PSA.
- 5.6.5 PED submits that it has executed a Power Sale Agreement (PSA) on 21st May 2019 with SECI for Procurement of 140.64 MW Wind Power (Tranche VIII) for 25 years at a fixed tariff for Rs. 2.84/kWh plus trading margin of Rs. 0.07/kWh for fulfilment of Non-Solar RPO. Accordingly, PED had filed a petition before the Hon'ble Commission for approval of purchase of wind Power capacity of 140.64 MW and adoption of tariff. The Hon'ble Commission vide its order dated 09th September 2021 has accorded its approval for adoption of said PSA.
- 5.6.6 Further PED has also executed a Power Sale Agreement (PSA) with NTPC for Procurement of 100 MW Solar Power for 25 years at a fixed tariff for Rs. 2.67/kWh for fulfilment of Non-Solar RPO.
- 5.6.7 The power purchase quantum for the Control period has been considered as the quantum projected by the petitioner in Business Plan petition for FY 2022-23 to FY 2024-25.
- 5.6.8 PED further submits that the provisional actual transmission/PGCIL losses for FY 2020-21 are 2.45%. However, for the purpose of the MYT control period, PED has revised the transmission loss percentage to 2.50%. PED requests the Hon'ble Commission to approve the same.

5.7 Cost of Power Purchase for the MYT Control Period

- 5.7.1 PED has projected the net power purchase quantum for the MYT Control period, as 3238.46 MUs, 3281.81 MUs, 3335.86 Mus for FY 2022-23, FY 2023-24, FY 2024-25

respectively.

5.7.2 Following assumptions have been considered for projecting the quantum and cost of power purchase:

5.7.2.1 Fixed Charges:

The Hon'ble CERC had notified the tariff Regulations, 2019, dated 7th March 2019, however the Hon'ble CERC has not issued any tariff orders for the control period FY 2020-24 of the central generating station. In absence of the tariff orders for FY 2020-24 of the central generating station. Hence the Fixed costs of FY 2021-22, has been calculated based on the H1 figures of FY 2021-22 and considered for calculation of revised projections of base year FY 2021-22 for respective Central Generating Stations and PPCL. Further the projections has been done with an escalation of 2% for purpose of estimation of the fixed charges for the control period.

5.7.2.2 Variable Charges:

5.7.1 The petitioner has considered the actual per unit variable costs of FY 2021-2 H1 and has calculated the revised projections of base year FY 2021-22 w.r.t to power purchase projections for respective Central Generating Stations and PPCL. Further, y-o-y escalations of 4% has been considered during the control period.

5.7.2.3 Sale of Surplus Power:

PED has considered surplus power diverted to IEX of quantum 406.93 MUs, 766.41 MUs, 712.36 MUs for FY 2022-23, FY 2023-24, FY 2024-25 respectively at the rate of Rs.2.20/unit which has been deducted from the net power purchase cost.

5.7.2.4 PGCIL losses:

PED submits that the actual transmission/PGCIL losses for FY 2020-21 are 2.45% and the same have been submitted in the chapter of True up of FY 2020-21. However for the purpose of APR for FY 2021-22, PED has revised the transmission loss percentage to 2.50%. PED has further considered the same percentage of losses i.e 2.50% for each year of the MYT Control period. PED requests the Hon'ble Commission to approve the same. Loss for Renewable energy sources and PPCL have been considered as nil.

5.7.2.5 Transmission Charges:

The petitioner has considered the actual transmission charges for FY 2020-21 and has accordingly calculated the transmission per unit charges for PGCIL and has considered the same per unit charges for the entire control period without any

escalations. However the transmission charges for renewable energy sources and PPCL has been considered nil.

- 5.7.3 The total power purchase quantum and cost for each year of the MYT control period is as under

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Table S-7: Power Procurement Cost for Control Period

Sr. No.	Source	Power Purchase (MUs)				Power Purchase Cost - Variable Cost (VC) (Rs. Cr)				Power Purchase Cost - Fixed Cost (FC) (Rs. Cr)				Total cost			
		Projections				Projections				Projections				Projections			
		FY 2022-23	FY 2023-24	FY 2024-25		FY 2022-23	FY 2023-24	FY 2024-25		FY 2022-23	FY 2023-24	FY 2024-25		FY 2022-23	FY 2023-24	FY 2024-25	
A	Central Sector Power Stations																
	I NTPC	1,159.11	1,159.11	1,159.11		279.62	290.80	302.43		126.97	129.50	132.09		406.58	420.31	434.53	
	RSTPS Stage I & II	521.29	521.29	521.29		139.85	145.44	151.26		49.78	50.77	51.79		189.63	196.22	203.05	
	RSTPS Stage -III	152.47	152.47	152.47		40.30	41.91	43.59		11.34	11.57	11.80		51.64	53.48	55.39	
	Talcher Stage- II	416.96	416.96	416.96		79.15	82.31	85.60		46.30	47.23	48.17		125.45	129.54	133.78	
	Simhadri Stage- II	68.38	68.38	68.38		20.32	21.14	21.98		19.55	19.94	20.33		39.87	41.07	42.32	
II	NLC	1,044.89	1,044.89	1,044.89		270.67	281.49	292.75		132.74	135.39	138.10		403.41	416.89	430.86	
	NLC TPS II Stage I	424.57	424.57	424.57		116.64	121.31	126.16		36.05	36.77	37.51		152.69	158.08	163.67	
	NLC TPS II Stage II	168.09	168.09	168.09		46.21	48.05	49.98		16.44	16.77	17.11		62.65	64.83	67.08	
	NLC TPS I (Expn)	105.31	105.31	105.31		26.41	27.47	28.56		10.32	10.52	10.73		36.73	37.99	39.30	
	NLC TPS II (Expn)	58.07	58.07	58.07		15.41	16.03	16.67		14.78	15.07	15.37		30.18	31.10	32.04	
	NNTPS	288.85	288.85	288.85		66.00	68.64	71.38		55.15	56.26	57.38		121.15	124.90	128.77	
III	NPCIL	583.49	583.49	583.49		218.93	227.69	236.79						218.93	227.69	236.79	
	MAPS	26.80	26.80	26.80		6.76	7.03	7.32						6.76	7.03	7.32	
	KAPS Stage I	127.95	127.95	127.95		46.38	48.23	50.16						46.38	48.23	50.16	
	KAPS Stage II	115.36	115.36	115.36		41.81	43.49	45.23						41.81	43.49	45.23	
	Kudankulam U1	164.05	164.05	164.05		64.90	67.49	70.19						64.90	67.49	70.19	
	Kudankulam U2	149.34	149.34	149.34		59.08	61.44	63.90						59.08	61.44	63.90	
B	Others	225.16	225.16	225.16		73.67	76.61	79.68		78.45	80.02	81.62		152.12	156.64	161.30	
	TNEB (Pondy)																
	TNEB (Karaikal)																
	KSEB																

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Sr. No.	Source	Power Purchase (MUs)				Power Purchase Cost - Variable Cost (VC) (Rs. Cr)				Power Purchase Cost - Fixed Cost (FC) (Rs. Cr)				Total cost			
		Projections				Projections				Projections				Projections			
		FY 2022-23	FY 2023-24	FY 2024-25	FY 2024-25	FY 2022-23	FY 2023-24	FY 2024-25	FY 2024-25	FY 2022-23	FY 2023-24	FY 2024-25	FY 2024-25	FY 2022-23	FY 2023-24	FY 2024-25	FY 2024-25
	Vallur Thermal Project	105.89	105.89	105.89	105.89	36.01	37.45	38.95	38.95	42.29	43.14	44.00	44.00	78.30	80.59	82.95	82.95
	NTPL (Tutikorin)	119.27	119.27	119.27	119.27	37.65	39.16	40.73	40.73	36.16	36.88	37.62	37.62	73.82	76.05	78.35	78.35
C	UI																
	Over-Drawl																
	Under Drawl																
D	Open Market	-406.93	-766.41	-712.36	-712.36	-89.52	-168.61	-156.72	-156.72					-89.52	-168.61	-156.72	-156.72
	IEX Purchase	-	-	-	-	-	-	-	-					-	-	-	-
	IEX Sale	406.93	766.41	712.36	712.36	89.52	168.61	156.72	156.72					89.52	168.61	156.72	156.72
	Traders																
E	Open Access																
		-	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	-	-	-	-
F	Renewable Sources	402.84	805.68	805.68	805.68	112.93	225.86	225.86	225.86	-	-	-	-	112.93	225.86	225.86	225.86
	Solar	118.26	236.52	236.52	236.52	-	-	-	-	-	-	-	-	-	-	-	-
	SECI Solar Tranche II -50 MW	39.42	78.84	78.84	78.84	9.89	19.79	19.79	19.79	-	-	-	-	9.89	19.79	19.79	19.79
	NTPC Solar	78.84	157.68	157.68	157.68	21.05	42.10	42.10	42.10	-	-	-	-	21.05	42.10	42.10	42.10
	Non-Solar	284.58	569.16	569.16	569.16	-	-	-	-	-	-	-	-	-	-	-	-
	SECI Wind Tranche V 100 MW	118.26	236.52	236.52	236.52	33.59	67.17	67.17	67.17	-	-	-	-	33.59	67.17	67.17	67.17
	SECI Wind Tranche VIII 140.64 MW	166.32	332.64	332.64	332.64	48.40	96.80	96.80	96.80	-	-	-	-	48.40	96.80	96.80	96.80
	Solar REC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Non-Solar REC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G	Within State Generations	229.90	229.90	229.90	229.90	47.27	49.16	51.12	51.12	33.88	34.55	35.25	35.25	81.14	83.71	86.37	86.37

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Sr. No.	Source	Power Purchase (MUs)			Power Purchase Cost - Variable Cost (VC) (Rs. Cr)			Power Purchase Cost - Fixed Cost (FC) (Rs. Cr)			Total cost		
		FY 2022-23	FY 2023-24	FY 2024-25	FY 2022-23	FY 2023-24	FY 2024-25	FY 2022-23	FY 2023-24	FY 2024-25	FY 2022-23	FY 2023-24	FY 2024-25
	PPCL	229.895	229.895	229.895	47.27	49.16	51.12	33.88	34.55	35.25	81.14	83.71	86.37
		-	-	-	-	-	-	-	-	-	-	-	-
H	OTHER CHARGES	-	-	-	-	-	-	-	-	-	80.00	68.96	70.62
	PGCIL Transmission Charges, Wheeling & Other Charges	-	-	-	-	-	-	-	-	-	80.00	68.96	70.62
		-	-	-	-	-	-	-	-	-	-	-	-
I	Total Power Purchase Cost	3,238.46	3,281.81	3,335.86	913.55	983.00	1,031.92	372.04	379.48	387.07	1,365.58	1,431.44	1,489.61

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- 5.7.4 With respect to the above submission, PED requests the Hon'ble Commission to approve the total quantum and cost of power purchase for the MYT control period as summarized above.

5.8 Renewable Purchase Obligation and Cost for the Control Period:

- 5.8.1 As per Joint Electricity Regulatory Commission for State of Goa & Union Territories (Procurement of Renewable Energy) Regulations, 2010 and as amended on 19th February 2013, quantum of Renewable Purchase Obligations has been specified for each year whereby each distribution licensee needs to purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year.
- 5.8.2 The Hon'ble Commission has notified the JERC (Procurement of Renewable Energy), (Third Amendment) Regulations, 2016 on 22nd August 2016 and revised the RPO targets upto FY 2021-22. However the Hon'ble Commission has not defined the RPO targets after FY 2021-22.
- 5.8.3 PED submits that it is obliged to comply with the Renewable Purchase Obligation. Further PED submits that it plans to comply and fulfil its total cumulative RPO upto FY 2021-22.
- 5.8.4 PED submits that the RPO obligations can be met through the purchase of energy from renewable sources only since REC are mere certificate which will not cater the actual load demand. In this process the PED has tied up with SECI for procuring 240 MW of wind power and 50 MW of Solar power for 25 years. Further the PED has also tied up with NTPC for procurement of 100 MW solar power for 25 years.

5.9 Operation and Maintenance

- 5.9.1 Regulation 52 and Regulation 61 of JERC for the State of Goa and Union Territories (Multi Year Tariff) Regulations, 2021 provides for O&M Expense for a distribution licensee for Distribution wire business and Retail supply respectively. The relevant regulation is re-produced hereunder:

"The Distribution Licensee shall submit the required O&M expenses for the Control Period as a part of Multi Year Tariff Petition. O&M expenses for the base Year shall be approved by the Commission taking into account the latest available audited accounts, business plan filed by the distribution Licensee, estimates of the actuals for the Base Year, prudence check and any other factors considered appropriate by the Commission.


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O&M expenses for the nth Year of the Control Period shall be approved based on the formula given below:

$$O\&M_n = (R\&M_n + EMP_n + A\&G_n) \times (1 - X_n) + \text{Terminal Liabilities}$$

Where,

$$R\&M_n = K \times GFA_{n-1} \times (1 + WPI_{inflation})$$

$$EMP_n = (EMP_{n-1}) \times (1 + G_n) \times (1 + CPI_{inflation})$$

$$A\&G_n = (A\&G_{n-1}) \times (1 + CPI_{inflation})$$

'K' is a constant (expressed in %). Value of K for each Year of the Control Period shall be determined by the Commission in the Multi Year Tariff Order based on Licensee's filing, benchmarking of repair and maintenance expenses, approved repair and maintenance expenses vis-à-vis GFA approved by the Commission in past and any other factor considered appropriate by the Commission;

CPIinflation – is the average increase in Consumer Price Index (CPI) for immediately preceding three (3) Years before the base Year;

WPIinflation – is the average increase in the Wholesale Price Index (CPI) for immediately preceding three (3) Years before the base Year;

EMP_n – Employee expenses of the Distribution Licensee for the nth Year;

A&G_n – Administrative and General expenses of the Distribution Licensee for the nth Year;

R&M_n – Repair and Maintenance expenses of the Distribution Licensee for the nth Year;

GFA_{n-1} – Gross Fixed Asset of the Distribution Licensee for the n-1 th Year;

X_n is an efficiency factor for nth Year. Value of X_n shall be determined by the Commission in the Multi Year Tariff Order based on Licensee's filing, benchmarking, approved cost by the Commission in past and any other factor the Commission feels appropriate;

G_n is a growth factor for the nth Year. Value of G_n shall be determined by the Commission for each Year in the Multi Year Tariff Order for meeting the additional manpower requirement based on Licensee's filings, benchmarking, approved cost by the Commission in past and any other factor that the Commission feels appropriate:

Provided that in case the Distribution Licensee has been in operation for less than three (3) Years as on the date of effectiveness of these Regulations, O&M Expenses shall be determined on case to case basis.

Employee Expenses:

- 5.9.2 The Petitioner has determined the employee expenses for each year of the Control Period based on the norms specified in the JERC MYT Regulations, 2021. The employee expenses for the Base Year FY 2021-22 have been estimated based on the actual data from FY 2020-21. The growth factor (G_n) has been calculated from the projected growth in employee year over year during the Control Period. Accordingly, the Growth factor (G_n) for the control period is as shown in the table below:

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Table 5-8: Growth Rate (Gn)

Gn factor working	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Number of employees	1848.00	1772.00	1604.00	1355.00
Gn	-5.42%	-4.11%	-9.48%	-15.52%

5.9.3 Based on the JERC MYT Regulations 2021, the employee expenses projected for the Control Period should take CPI escalation into account along with Growth factor. The average increase in Consumer Price Index (CPI) has been calculated based on the average increase in the Consumer Price Index (CPI) for the FY 2018-19, FY 2019-20 & FY 2020-21. PED further submits that the from the Month of Sept 2021 the CPI Index base value has been updated to 2016=100 from 2001=100, so only 5 months CPI index for FY 2020-21 has been considered for computation of Average increase in CPI index over 3 years. The average CPI Index of last three years i.e., 5.41% has been considered for escalating employee expense per employee of FY 2020-21 (provisional actuals) for the Control period.

Table 5-9: CPI index of last three years

No.	Period	CPI	Increase over previous year
1	FY 2017-18	284.42	
2	FY 2018-19	299.92	5.45%
3	FY 2019-20	322.50	7.53%
4	FY 2020-21	333.00	3.26%*
5	Average CPI of last 3 years		5.41%

* 5 Months Average

5.9.4 Since PED is under the verge of privatisation under the Aatmanirbhar Bharat Abhiyaan, the Electricity Department of Puducherry has not devised any recruitment plan so the Gn has considered as -4.11% for the control period. Accordingly, Employee Expenses have been calculated for the MYT Control period as per formula $EMP_n = (EMP_{n-1}) \times (1+Gn) \times (1+CPI \text{ inflation})$. Calculation are as under:

Table 5-10: Employee expense for the Control Period (Rs. Cr)

Particulars	FY 2022-23	FY 2023-24	FY 2024-25
EMP _{n-1}	114.18	115.41	116.65
Gn	-4.11%	-4.11%	-4.11%
CPI Inflation	5.41%	5.41%	5.41%
EMP _n	115.41	116.65	117.91

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- 5.9.5 PED requests the Hon'ble Commission to approve the employee expenses as projected for the Control Period based on approved norms in the Regulations.

A&G Expenses:

- 5.9.6 The A&G expenses for each year of the Control Period has been computed based on the norms specified in the JERC MYT Regulations, 2021 i.e., $A\&G_n = (A\&G_{n-1}) \times (1 + \text{CPI inflation})$. Accordingly, The A&G expenses for the FY 2021-22 have been taken as base, estimated based on actual A&G Expenses for the FY 2021-22. The average increase in Consumer Price Index (CPI) for the past years has been considered for projecting the employee expenses. As mentioned in the earlier section, only 5 Months CPI Index is considered for the FY 2020-21. The following table provides the A&G expenses projected for each year of the MYT Control Period along with various parameters considered.

Table 5-11: A&G Expense projection for the Control period (Rs. Cr)

Particulars	FY 2022-23	FY 2023-24	FY 2024-25
A&G Expenses of Previous Year (A&G _{n-1})	18.06	19.04	20.07
CPI Inflation	5.41%	5.41%	5.41%
A&G _n Expenses	19.04	20.07	21.15

- 5.9.7 PED requests the Hon'ble Commission to approve the A&G expense projected for the MYT Control Period based on approved A&G norms.

Repair and Maintenance Expenses

- 5.9.8 The R&M expenses for each year of the Control Period based on the norms specified in the JERC MYT Regulations, 2021 i.e., $R\&M_n = K \times GFA_{n-1} \times (1 + \text{WPI inflation})$. The R&M expenses for the FY 2021-22 have been taken as base. The 'K' factor as prescribed in the regulations has been calculated as ratio of R&M and average GFA of the last 3 years. The 'K' factor has been determined as the ratio of R&M to opening GFA for the FY 2018-19, FY 2019-20 and FY 2020-21 (last three available audited accounts) and averaged for three years. The 'K' factor has been computed as follows:

Table 5-12: Calculation of 'k' for R&M Expenses for the Control Period

S.No.	Particulars	FY 2019-20	FY 2020-21	FY 2021-22
1	Opening GFA (Rs. Cr)	690.27	799.51	864.29
2	R&M Expenses (Rs. Cr)	4.47	5.98	11.29
3	K factor	0.65%	0.75%	1.31%
4	Avg of K factor	0.90%		

- 5.9.9 The average increase in Wholesale Price Index (WPI) has been calculated based on the increase in the Wholesale Price Index (WPI) for the FY 2018-19, FY 2019-20 & FY 2020-21. The computation of WPI Index is as shown below:

Table 5-13: WPI Index for last 3 years

No.	Period	WPI	Increase over previous year
1	FY 2017-18	114.88	
2	FY 2018-19	119.79	4.28%
3	FY 2019-20	121.80	1.68%
4	FY 2020-21	123.38	1.29%
5	Average WPI of last 3 years		2.42%

- 5.9.10 PED submits that the Hon'ble Prime Minister and Ministry of Power had emphasized that the smart meter has to be rolled out in Mission mode for the Union Territories and assigned the time that the all the consumers (other than Agriculture) in Union Territories shall be metered with smart meters with prepayment mode by December 2023. Accordingly the Smart pre-payment meter work in UT of Puducherry was awarded to M/s. Power Finance Corporation Consultant Ltd (M/s PFCCL) on TOTEX mode on 4th June 2021.

- 5.9.11 M/s PFCCL will be the project implementing agency and will select Advance Metering Infrastructure Service Provider (AMISP) for providing Smart Prepaid meters for all the consumers, Smart meter with AMR facility for HT, EHT consumers. Since the Project has been carried out on the TOTEX mode, PED has to pay the rate quoted by the AMISP. The approximate Facility Management Services (FMS) Cost arrived at Rs. 80/per consumer/month for the contract period of 90 Months and the exact amount will be known after AMISP is finalized by M/s. PFCCL.

- 5.9.12 PED projected that around 4.05 Lakh consumer meter will be replaced by FY2023-24 the FMS cost tunes to a total of Rs. 38.88 Cr. Since this project is initiated under TOTEX mode and cost incurred towards FMS is claimed under R&M Cost. Cost incurred for this Smart meter project are then added separately to the calculated R&M expenses as they are not regular expenses.

- 5.9.13 R&M Expenses have been calculated based on the formula and methodology provided in the Regulations, $R\&M_n = K \times GFAn-1 \times (1+WPI \text{ inflation})$.

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Table 5-14: R&M Expenses for the Control Period

Particulars	FY 2022-23	FY 2023-24	FY 2024-25
K-Factor	0.90%	0.90%	0.90%
GFA _n -1	954.63	989.63	1003.75
WPI Inflation	2.42%	2.42%	2.42%
R&M Expenses	8.81	9.13	9.26
FMS Cost towards Prepaid smart meters	-	38.88	40.01
Total R&M Cost	8.81	48.01	49.27

5.9.14 PED requests the Hon'ble Commission to approve the R&M expense as projected for the Control Period based on approved R&M norms.

5.10 Details of Capital Expenditure & Capitalization during MYT Control Period

5.10.1 The JERC MYT Regulations, 2021 specifies the following provisions for projection of capital expenditure.

"8.5 Capital Investment Plan

a) *The Capital Investment Plan to be submitted as part of Business Plan shall include details of New Projects planned during the Control Period, purpose of investment, capital structure, implementation schedule, quarter-wise capital expenditure and capitalisation schedule, financing plan, cost-benefit analysis, improvement in operational efficiency envisaged in the Control Period owing to proposed investment and such details for ongoing projects that will spill over into the Control Period under review along with justification;*

b) *The Capital Investment Plan proposed by the Transmission Licensee shall be in conformity with the plans made by the Authority/Central Transmission Utility and with the Capital Investment Plan of the Distribution Licensee;*

c) *During the Annual Performance Review, the Commission shall monitor the progress of the actual capital expenditure incurred by the Licensee vis-à-vis the approved capital expenditure. The Licensees shall submit the actual capital expenditure incurred along with the annual performance review, true-up and determination of tariff filing;*

d) *The truing up of the capital cost incurred for the new projects and additional capital cost for the existing projects shall be done on yearly basis based on the actual capital cost incurred.:*

Provided if the actual capital cost incurred on year to year basis is lesser than the capital cost approved for determination of tariff by the Commission on the basis of the projected capital cost as on the date of commercial operation or on the basis of the projected additional capital cost, by twenty (20) percent or more, the excess tariff/revenue realized corresponding to excess capital cost as approved by the Commission, along with interest at 1.10 times of the

Carrying Cost, as prevalent on the first day of April of the respective financial year, shall be adjusted from the annual revenue requirement of the respective year at the time of true-up.

Provided if the actual capital cost incurred on year to year basis is higher than the capital cost approved for determination of tariff by the Commission on the basis of the projected capital cost as on the date of commercial operation or on the basis of the projected additional capital cost, by twenty (20) percent or more, the shortfall in tariff/revenue realized corresponding to excess capital cost as incurred by the licensee vis-à-vis approved by the Commission, along with interest at 0.9 times of the Carrying Cost, as prevalent on the first day of April of the respective financial year, shall be allowed in the annual revenue requirement of the respective year at the time of true-up.

e) In case the capital expenditure is required for emergency work which has not been approved in the Capital Investment Plan, the Licensee shall submit an application containing all relevant information along with reasons justifying emergency nature of the proposed work seeking approval of the Commission:

Provided that in case capital expenditure is required for emergency work or unforeseen situation to mitigate threat to life and property and if prior intimation thereof to the Commission shall cause any irreparable loss or injury, the Licensee may undertake that capital expenditure and submit the details along with adequate justification for post facto approval of the Commission:

Provided further that for the purpose of Regulation 8.5(e) above, such approved capital expenditure shall be treated as a part of both the actual capital expenditure incurred by the Licensee and approved capital expenditure by the Commission;

f) The Licensee shall submit a report for every quarter detailing the progress of the capital expenditure and capitalisation undertaken against that proposed in the Capital Investment Plan, on or before the last Day of the month succeeding the respective quarter for review by the Commission."

5.10.2 The distribution network of PED is old and it has been continuously upgrading and strengthening its network to cater quality and reliable power services to its increasing consumer base.

5.10.2.1 The distribution network of PED needs to be developed and strengthened in such a way that demand of such rising consumers can be met. The majority of the capital expenditure during the control period is required to address this demand requirement. This section discusses the capital expenditure and funding of the same to be carried out by PED during the MYT control period.

5.10.3 Details of Capital Expenditure

- 5.10.3.1 PED plans to carry out the capital expenditure during the control period for augmentation and expansion of its capacity and to reduce the transmission and distribution loss in the system. The works to be carried out are with an intention to maintain a reliable and efficient system. The same was submitted in detail in the Business Plan petition.
- 5.10.3.2 As submitted in the Business Plan Petition, PED has considered the same capital expenditure and capitalization. All the ongoing capital expenditure schemes will be closed by December 2021.
- 5.10.3.3 The Government of India has approved the Revamped Distribution Sector Scheme (RDSS). The Scheme seeks to improve the operational efficiencies and financial sustainability of all DISCOMs/ Power Departments excluding Private Sector DISCOMs by providing conditional financial assistance to DISCOMs for strengthening of supply infrastructure. The assistance will be based on meeting pre-qualifying criteria as well as upon achievement of basic minimum benchmarks by the DISCOM evaluated on the basis of agreed evaluation framework tied to financial improvements. Implementation of the Scheme would be based on the action plan worked out for each state rather than a "one-size-fits-all" approach. The Scheme would be available till the year 2025-26. REC and PFC have been nominated as nodal agencies for facilitating implementation of the Scheme. The Scheme has a major focus on improving electricity supply for the farmers and for providing daytime electricity to them through solarization of agricultural feeders. A key feature of the Scheme is to enable consumer empowerment by way of prepaid Smart Metering to be implemented in Public-Private-Partnership (PPP) mode. Smart meters would allow consumers to monitor their electricity consumption on a routine basis instead of monthly basis, which can help them in usage of electricity as per their own needs and in terms of the resources available.
- 5.10.3.4 The estimates of capital expenditure and capitalization has been shown in tables below:

Table 5-15: Capital Expenditure for the Control Period (Rs. Cr)

No.	Particulars	Capital Expenditure		
		FY 2022-23	FY 2023-24	FY 2024-25
A	Transmission Schemes	50.00	90.00	75.00
B	Distribution Schemes	35.00	70.00	75.00
	Total	85.00	160.00	150.00

Table 5-16: Capitalization for the Control Period (Rs. Cr)

No.	Particulars	Capitalization		
		FY 2022-23	FY 2023-24	FY 2024-25
A	Transmission Schemes	17.65	75.94	92.50
B	Distribution Schemes	12.35	59.06	92.50
	Total	30.00	135.00	185.00

5.10.4 The proposed capital expenditure will definitely be helpful to achieve the loss targets set by PED in its distribution loss trajectory and to meet any additional load surging due to increase in demand.

5.11 Funding of Capital Expenditure

5.11.1 The funding pattern of PED for its proposed capital expenditure plan is submitted as follows.

Table 5-17: Funding of CAPEX for the MYT Period (Rs. Cr)

No.	Sources of Funds	Component	FY 2022-23	FY 2023-24	FY 2024-25
1	Revamped Distribution sector scheme (RDSS) through M/s. PFC	Debt	23.00	45.00	60.00
A	Total Debt		23.00	45.00	60.00
2	EDP Funding from Budgetary Allocation	Equity	17.00	25.00	30.00
B	Total Equity (2)		17.00	25.00	30.00
C	Grant from Central Govt Schemes (RDSS)	Grant	45.00	90.00	120.00
D	Consumer Contributions		0.00	0.00	0.00
E	Total Capital Expenditure (A+B+C+D)		85.00	160.00	210.00
	Debt		58%	64%	67%
	Equity		43%	36%	33%

5.11.2 In view, of the above, the petitioner has claimed the funding of capex and capitalization as under:

Table 5-18: Closing GFA for each year of the control period (Rs. Cr)

No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Opening GFA	989.63	1003.75	1062.81
2	Addition	30.00	135.00	185.00
3	Less: Grant	15.88	75.94	74.00
4	Less: Consumer Contribution	-	-	-

No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
5	Net Additions to GFA	14.12	59.06	111.00
6	Closing GFA	1003.75	1062.81	1173.81

Table 5-19: Capital Structure of the proposed Capitalisation (Rs. Cr)

S.No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Total Capitalisation	30.00	135.00	185.00
2	Less: Capitalisation through Grants	15.88	75.94	74.00
3	Net Capitalisation excluding grant	14.12	59.06	111.00
4	Debt (%)	70%	70%	70%
5	Equity (%)	30%	30%	30%
6	Normative Loan	9.88	41.34	77.70
7	Normative Equity	4.24	17.72	33.30

5.12 Gross Fixed Assets and Depreciation

5.12.1 The JERC MYT Regulations, 2021 specifies the following provisions for projection of Depreciation.

31 Depreciation

31.1 The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission:

Provided that the depreciation shall be allowed after reducing the approved original cost of the retired or replaced or decapitalized assets:

Provided also that the no depreciation shall be allowed on the assets financed through consumer contribution, deposit work, capital subsidy or grant.

31.2 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to a maximum of 90% of the capital cost of the asset.

31.3 Land other than the land held under lease shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the assets.

31.4 In case of existing assets, the balance depreciable value as on April 1, 2022, shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to March 31, 2021, from the gross depreciable value of the assets.

31.5 The depreciation shall be chargeable from the first Year of commercial operations. In case of projected commercial operation of the assets during the Year, depreciation shall be computed based on the average of opening and closing value of assets:

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Provided that depreciation shall be re-calculated during truing-up for assets capitalised at the time of truing up of each Year of the Control Period, based on documentary evidence of asset capitalised by the Applicant, subject to the prudence check of the Commission.

31.6 For Transmission Licensee, the depreciation shall be calculated at rates and norms specified in the prevalent CERC Tariff Regulations for transmission system.

31.7 The depreciation for a Distribution Licensee shall be shall be calculated annually, based on the Straight Line Method, over the Useful Life of the asset at rates specified in Appendix I of the Regulations.

31.8 In addition to allowable depreciation, the Distribution Licensee shall be entitled to advance against depreciation (AAD), computed in the manner given hereunder:

AAD = Loan (raised for capital expenditure) repayment amount based on loan repayment tenure, subject to a ceiling of 1/10th of loan amount minus depreciation as calculated on the basis of these Regulations:

Provided that advance against depreciation shall be permitted only if the cumulative repayment upto a particular Year exceeds the cumulative depreciation upto that Year:

Provided further that advance against depreciation in a Year shall be restricted to the extent of difference between cumulative repayment and cumulative depreciation upto that Year.

31.9 The Distribution Licensee shall provide the list of assets added during each Year of Control Period and list of assets completing 90% of depreciation in the Year along with Petition for annual performance review, true-up and tariff determination for ensuing Year.

30.10 The remaining depreciable value for a Distribution Licensee shall be spread over the balance useful life of the asset, on repayment of the entire loan"

5.12.2 The closing GFA of the FY 2021-22 as arrived at APR has been considered as opening GFA of the FY 2022-23. Further, depreciation for each year has been computed on average Gross Fixed Assets (GFA) after considering the net addition proposed during each year.

5.12.3 Total depreciation is calculated asset block wise on the total GFA. However, since depreciation on assets created through grants, electricity duty fund or subsidies are not allowed as per regulations. Hence Depreciation for the GFA excluding grant and electricity duty fund arrived in the proportion of total GFA and GFA excluding grant

and electricity duty fund.

5.12.4 Based on the methodology given in MYT Regulations, depreciation for the control period is calculated:

Table 5-20: GFA and Depreciation for the Control Period (Rs. Cr)

No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Opening GFA (Net of Grants)	989.63	1003.75	1062.81
2	Addition During the FY	30.00	135.00	185.00
3	Less: Capitalization through grants	15.88	75.94	74.00
4	Closing GFA (net of Grants)	1003.75	1062.81	1173.81
5	Average GFA (net of Grants)	996.69	1033.28	1118.31
6	Weighted Average Rate of Depreciation (%)	3.67%	3.67%	3.67%
7	Net Depreciation for the year	36.60	37.94	41.07

5.12.5 In view of the above, the Hon'ble commission is requested to allow the depreciation charges as provided above for the control period.

5.13 Interest on Loan

5.13.1 The debt-equity ratio for determination of tariff shall be considered as per Regulation 27 of MYT Regulations

"27. Debt to Equity Ratio:

27.1 In case of Existing Projects, debt to equity ratio allowed by the Commission for determination of tariff for the period ending March 31, 2022 shall be considered:

Provided that in case of retirement or replacement or De-capitalisation of the assets, the equity capital approved as mentioned above, shall be reduced to the extent of 30% (or actual equity component based on documentary evidence, if it is lower than 30%) of the original cost of such assets:

Provided further that in case of retirement or replacement or De-capitalisation of the assets, the debt capital approved as mentioned above, shall be reduced to the extent of outstanding debt component based on documentary evidence, or the normative loan component, as the case may be, of the original cost of such assets.

27.2 For New Projects, the debt-equity ratio as on the Date of Commercial Operation shall be 70:30 of the amount of capital cost approved by the Commission under Regulation 24, after prudence check for determination of tariff:

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Provided that where equity actually deployed is less than 30% of the capital cost of the capitalised asset, the actual equity shall be considered for determination of tariff:

Provided also that if the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as a normative loan for the Licensee for determination of tariff:

Provided also that the Licensee shall submit documentary evidence for the actual deployment of equity and explain the source of funds for the equity:

Provided also that the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:

Provided further that the premium, if any, raised by the Licensee while issuing share capital and investment of internal resources created out of its free reserves, for the funding of the scheme, shall be reckoned as paid up capital for the purpose of computing return on equity, provided such premium amount and internal resources are actually utilized for meeting the capital expenditure of the transmission system or the distribution system, and are within the ceiling of 30% of capital cost approved by the Commission.

27.3. Any expenditure incurred or projected to be incurred on or after April 1, 2022, as may be admitted by the Commission, as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in this Regulation."

5.13.2 The rate of interest on normative loan shall be considered as per Regulation 29.4 of JERC MYT Regulations 2021.

"29.4. The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each Year applicable to the Transmission Licensee or the Distribution Licensee:

Provided that at the time of truing up, the weighted average rate of interest calculated on the basis of the actual loan portfolio during the Year applicable to the Transmission Licensee or the Distribution Licensee shall be considered as the rate of interest:

Provided also that if there is no actual loan for a particular Year but normative loan is still outstanding, the last available weighted average rate of interest for the actual loan shall be considered:

Provided further that if the Transmission Licensee or the Distribution Licensee does not have actual loan, then one (1) Year State Bank of India (SBI) MCLR / any replacement thereof as notified by RBI for the time being in effect applicable for one (1) Year period, as may be applicable as on 1st April of the relevant Year plus 100 basis points shall be considered as rate of interest for purpose of allowing the interest on the normative loans. "

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5.13.3 The Interest on loan for the Control Period based on JERC MYT regulations, 2021 is tabulated below.

Table 5-21: Interest on Loan for the Control Period (Rs. Cr)

Sr. No.	Particulars	Projection		
		FY 2022-23	FY 2023-24	FY 2024-25
1	Opening Normative Loan	157.14	130.42	133.82
2	Add: Normative Loan during the Year	9.88	41.34	77.70
3	Less: Normative Repayment	36.60	37.94	41.07
4	Closing Normative Loan	130.42	133.82	170.45
4	Average Normative Loan	143.78	132.12	152.14
5	Rate of Interest (@SBI 1 Year MCLR rate+100 Basis Points)	8.00%	8.00%	8.00%
6	Interest on Normative Loan	11.50	10.57	12.17
7	Other Finance Charges		-	-
8	Total Interest & Finance Charges	11.50	10.57	12.17

5.13.4 Other finance charges incurred by the Petitioner shall be claimed based on actuals during true-up for the respective years.

5.13.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges proposed during the MYT Control period.

5.14 Interest on Working Capital

5.14.1 Regulation 53 specify norms for working capital for Distribution wire business of JERC MT Regulation 2021 is as follows:

"53.1 The Distribution Licensee shall be allowed interest on the estimated level of working capital for the Distribution Wires (Retail Supply) Business for the Financial Year, computed as follows:

(a) O&M Expenses for one (1) month; plus

(b) Maintenance spares at 40% of repair and maintenance expenses for one (1) month; plus

(c) Receivables equivalent to two (2) months of the expected revenue from charges for use of distribution wires at the prevailing tariff;

Less

(d) Amount, if any, held as security deposits under clause (b) of sub-section (1) of Section 47 of the Act from distribution system users except the security deposits held in the form of Bank Guarantees:

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Provided that at the time of truing up for any Year, the working capital requirement shall be re-calculated on the basis of the values of components of working capital approved by the Commission in the truing up."

5.14.2 The SBI 1 year MCLR as on 1st April 2021 plus 200 basis points i.e. 9.00% has been considered for computation of interest on working capital. The following table provides the Interest on working Capital proposed for each year of the Control Period.

Table 5-22: Interest on working capital for the MYT Period (Rs. Cr)

Sr. No.	Particulars	Projections		
		FY 2022-23	FY 2023-24	FY 2024-25
1	O&M Expenses for 1 month	11.94	15.39	15.69
2	Maintenance Spares (@ 40% of R&M Expenses for one (1) month)	0.29	1.60	1.64
3	Receivables equivalent to two (2) months	275.19	287.65	299.51
4	Less: Amount, if any, held as security deposits	220.41	224.57	228.94
5	Total Working Capital (A (v)+B+C-D)	67.02	80.08	87.91
6	Rate of Interest	9.0%	9.0%	9.0%
7	Interest on Working Capital	6.03	7.21	7.91

5.14.3 The Hon'ble Commission is requested to approve the Interest on working capital proposed during the MYT Control period as per the above table.

5.15 Provision for Bad Debts

5.15.1 Regulation 63 provides provision for Bad debts

"The Commission may allow bad debts written off as a pass through in the Aggregate Revenue Requirement, based on the trend of write off of bad debts in the previous years, subject to prudence check:

Provided that the Commission shall true up the bad debts written off in the Aggregate Revenue Requirement, based on the actual write off of bad debts excluding delayed payment charges waived off, if any, during the year, subject to prudence check:

Provided also that the provision for bad and doubtful debts shall be limited to 1% of the annual Revenue Requirement of the Distribution Licensee:

Provided further that if subsequent to the write off of a particular bad debt, revenue is realised from such bad debt, the same shall be included as an uncontrollable item under the Non-Tariff Income of the year in which such revenue is realised."

5.15.2 Since the amount is to be claimed at the time-up of true-up limited to 1% of the receivables, the same is not claimed in the MYT Petition and may be claimed at the

time of true-up in case such cost has been incurred.

5.16 Interest on Security Deposits

5.16.1 Regulation 29.11 of the JERC MYT Regulations, 2021 gives provision for Interest on Security deposit.

“Interest shall be allowed on the amount held as security deposit held in cash from Retail Consumers at the Bank Rate as on 1st April of the Financial Year in which the Petition is filed:

Provided that at the time of truing-up, the interest on the amount of security deposit for the Year shall be considered on the basis of the actual interest paid by the Licensee during the Year, subject to prudence check by the Commission.”

5.16.2 Interest on security deposits based on MYT Regulations is tabulated below

Table 5-23: Interest on Security Deposit for MYT Control Period (Rs. Cr)

No.	Particulars	Projections		
		FY 2022-23	FY 2023-24	FY 2024-25
1	Opening Security Deposit	218.38	222.44	226.70
2	Add: Deposits during the Year	4.06	4.27	4.48
3	Less: Deposits refunded	0.00	0.00	0.00
4	Less: Deposits in form of BG/FDR	0.00	0.00	0.00
5	Closing Security Deposit	222.44	226.70	231.18
6	Bank Rate	4.25%	4.25%	4.25%
7	Interest on Security Deposit	9.37	9.54	9.73

5.16.3 PED submits that deposit during the year is considered by taking FY 2020-21 as base and an escalation of 5% has been considered every year to arrive at security deposit addition for following years.

5.16.4 The Hon’ble Commission is requested to approve the Interest on Security Deposit as proposed in the MYT Petition.

5.17 Return on Equity

5.17.1 The debt-equity ratio for determination of tariff has been determined in accordance with the Regulation 27 of JERC MYT Regulations 2021. The excerpt of the same is reproduced below:

“27. Debt to Equity Ratio:

27.1 In case of Existing Projects, debt to equity ratio allowed by the Commission for determination of tariff for the period ending March 31, 2022 shall be considered:

Provided that in case of retirement or replacement or De-capitalisation of the assets, the equity capital approved as mentioned above, shall be reduced to the extent of 30% (or actual equity component based on documentary evidence, if it is lower than 30%) of the original cost of such assets:

Provided further that in case of retirement or replacement or De-capitalisation of the assets, the debt capital approved as mentioned above, shall be reduced to the extent of outstanding debt component based on documentary evidence, or the normative loan component, as the case may be, of the original cost of such assets.

27.2 For New Projects, the debt-equity ratio as on the Date of Commercial Operation shall be 70:30 of the amount of capital cost approved by the Commission under Regulation 24, after prudence check for determination of tariff:

Provided that where equity actually deployed is less than 30% of the capital cost of the capitalised asset, the actual equity shall be considered for determination of tariff:

Provided also that if the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as a normative loan for the Licensee for determination of tariff:

Provided also that the Licensee shall submit documentary evidence for the actual deployment of equity and explain the source of funds for the equity:

Provided also that the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:

Provided further that the premium, if any, raised by the Licensee while issuing share capital and investment of internal resources created out of its free reserves, for the funding of the scheme, shall be reckoned as paid up capital for the purpose of computing return on equity, provided such premium amount and internal resources are actually utilized for meeting the capital expenditure of the transmission system or the distribution system, and are within the ceiling of 30% of capital cost approved by the Commission.

27.3. Any expenditure incurred or projected to be incurred on or after April 1, 2022, as may be admitted by the Commission, as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in this Regulation."

5.17.2 Regulation 28 specifies the return on equity that shall be allowed for Distribution wire and Retail Supply business.

"28.2 The return on equity for the Distribution Wires Business shall be allowed on the equity capital determined in accordance with Regulation 27 for the assets put to use at post-tax rate of return on equity specified in the prevalent CERC Tariff Regulations for transmission system.

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28.3 The return on equity for the Retail Supply Business shall be allowed on the equity capital determined in accordance with Regulation 27 for the assets put to use, at the rate of sixteen (16) per cent per annum.

28.4 The return on equity shall be computed on average of equity capital at the beginning and end of Year."

5.17.3 PED has segregated the proposed average equity (average of opening and closing equity) into average equity for Distribution Wires Business and Retail Supply Business based on the Allocation Statement provided in the JERC MYT Regulations, 2021 i.e. 90% allocation for the Distribution Wires Business and 10% allocation for the Retail Supply Business.

5.17.4 In accordance with the Regulation 28.2 of the JERC MYT Regulations 2021, PED has considered a post-tax rate of 15.50% for the Distribution Wires Business (as per the prevalent CERC Regulations).

5.17.5 Further in accordance to the Regulation 28.3 of the JERC MYT Regulations, 2021, PED has considered return on equity at the rate of 16% for the Retail Supply Business.

5.17.6 The following table provides the total return on equity proposed for the MYT Control Period.

Table 5-24: Return on Equity for Control Period (Rs. Cr)

S. No	Particulars	Projection		
		FY 2022-23	FY 2023-24	FY 2024-25
1	Opening Balance of Equity	296.89	301.13	318.84
2	Equity Addition during year (30% of Capitalization)	4.24	17.72	33.30
3	Closing Balance of Equity	301.13	318.84	352.14
4	Average Equity Amount	299.01	309.98	335.49
5	Average Equity-Wires Business	269.11	278.99	301.94
6	Average Equity -Retail Supply Business	29.90	31.00	33.55
7	Return on Equity for Wires Business (%)	15.50%	15.50%	15.50%
8	Return on Equity for Retail Supply Business (%)	16.00%	16.00%	16.00%
9	Return on Equity for Wires Business	41.71	43.24	46.80
10	Return on Equity for Retail Supply Business	4.78	4.96	5.37
11	Total Return on Equity	46.50	48.20	52.17

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5.17.7 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Equity as submitted in the petition for the MYT control Period.

5.18 Non-Tariff Income

5.18.1 The amount received by the licensee on account of non-tariff Income shall be deducted from the aggregate revenue requirement in calculating the net revenue requirement of such licensee. The non-tariff Income comprises of Testing charges, Service connection charges, Cancellation charges, Meter charges, income from trading of materials, reconnection fee, and miscellaneous income among others. The Non-tariff income has been escalated by 5% by considering non-tariff income of FY 2020-21 as base and projected for the MYT control period.

5.18.2 The NTI proposed for each year of the MYT Control Period has been shown in the following table:

Table 5-25: Non-Tariff Income for the Control Period (Rs. Cr)

Particulars	FY 2022-23	FY 2023-24	FY 2024-25
Total Non-tariff income	3.54	3.72	3.91

5.18.3 PED requests the Hon'ble commission to approve the non-tariff income as projected for the Control Period.

5.19 ARR for the Control Period

5.19.1 Based on the parameters discussed above, the projection of Annual Revenue Requirement (ARR) of PED for the MYT Control Period is as follows:

Table 5-26: ARR for the MYT Control period (Rs. Cr)

S.No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Cost of Power Purchase (Excl. Transmission charges)	1285.59	1362.48	1418.99
2	R&M Expenses	8.81	48.01	49.27
3	Employee Cost	115.41	116.65	117.91
4	A&G Expenses	19.04	20.07	21.15
5	Depreciation	36.60	37.94	41.07
6	Interest and Finance Charges	11.50	10.57	12.17
7	Interest on Working Capital	5.62	7.21	7.91
8	Interest on consumer security Deposit	9.37	9.54	9.73
9	Transmission Charges	80.00	68.96	70.62
10	Return on Equity	46.50	48.20	52.17

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S.No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
11	Total Revenue Requirement	1618.84	1729.63	1800.99
12	Less: Non-Tariff and other Income	3.54	3.72	3.91
13	Annual Revenue Requirement	1614.88	1725.91	1797.08

5.19.2 PED requests the Hon`ble Commission to approve the said ARR for the MYT control Period.

5.20 Revenue from Sale of Power at Existing Tariff for FY 2022-23

5.20.1 The Revenue from sale of power at existing Tariff based on the projected sales, consumer and connected load for FY 2022-23 is tabulated below:

Table 5-27: Revenue from Sale of Power at existing tariff for FY 2022-23

Category	FY 2022-23				
	Sales (Mus)	Fixed Charge (Rs. Cr)	Energy Charge (Rs. Cr)	5% Surcharge (Rs. Cr)	Total Revenue (Rs. Cr.)
LT Category					
Domestic & Cottage	826.89	19.65	241.18	13.04	273.87
OHOB/LifeLine Services	3.50	0.00	0.35	0.02	0.37
Commercial	210.00	13.94	146.61	8.03	168.58
Agriculture	61.17	3.34	0.00	0.17	3.51
Public lighting	17.50	6.99	11.90	0.94	19.83
LT Industrial	126.59	6.19	76.59	4.14	86.92
Water tank	41.06	0.15	28.33	1.42	29.90
Temporary supply - LT&HT	5.06	0.00	4.94	0.25	5.18
Total LT	1291.78	50.26	509.89	28.01	588.15
HT Category					
HT-1 Industries and commercial	1018.35	120.17	552.07	33.61	705.85
HT 2 - Government & non-Industrial & non-Commercial	76.75	13.62	49.73	3.17	66.52
HT 3 - EHT Industries	437.36	23.25	227.61	12.54	263.40
Total HT	1532.47	157.04	829.41	49.32	1035.77
Grand Total	2824.25	207.29	1339.30	77.33	1623.92

5.20.2 PED hereby submits that the revenue mentioned above does not consist of FPPCA charges. In view of above, the Hon`ble Commission is requested to kindly allow Revenue at existing tariff as proposed for FY 2022-23.

5.21 Revenue Gap at Existing Tariff for FY 2022-23

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5.21.1 In accordance with the Regulation 9.4 of the JERC MYT Tariff Regulations 2021, In the MYT petition the expected revenue from the tariff shall be submitted for the first year of the control period and shall also propose the tariff for the first year of the control period i.e., FY 2022-23. Whereas ARR calculations are to be submitted for the full control period FY 2022-23 to FY 2024-25. Hence, the revenue surplus @ existing tariff including 5% regulatory surcharge has been calculated for FY 2022-23 is shown in the table below:

Table 5-28: Revenue Gap at existing tariff for FY 2022-23 (Rs. Cr)

Particulars	FY 2022-23
Aggregate Revenue Requirement (ARR)	1614.88
Less: Revenue at Existing Tariff	1623.92
Revenue Gap/ (Surplus) for FY 2022-23	(9.04)

5.21.2 In view of above, the Hon'ble Commission is requested to kindly allow the Revenue surplus of **Rs.9.04 Cr** during FY 2022-23 at existing tariff, considering 5% regulatory surcharge for FY2022-23.


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CHAPTER 6. REGUALTORY ASSETS AND TOTAL REVENUE GAP

6.1 Preamble

- 6.1.1 PED in determining the ARR and retail supply tariff (for FY 2022-23 only) for MYT control period i.e. FY 2022-23 to FY 2024-25 and has been guided by the provisions of the Electricity Act 2003, National Tariff Policy, JERC MYT Regulations 2021 and any other applicable law, enactments, Orders, etc. as amended from time to time.
- 6.1.2 PED submits that this section covers the treatment of regulatory assets as approved by the Hon'ble Commission and the total revenue gap expected by FY 2022-23.
- 6.1.3 This section overall provides a detailed overview of each and every claim considered in calculation of total revenue gap of PED.

6.2 Treatment of Regulatory Assets and Net Gap:

6.2.1 Regulatory Asset

- 6.2.1.1 In a general term, Regulatory assets include previously-incurred losses that are in the nature of deferred expenditure and that can be recovered from consumers in future if allowed by regulatory authorities.
- 6.2.1.2 As per the Guidance Note on Accounting for Rate Regulated Activities, issued by ICAI, a Regulatory Asset is defined as follows:

"A regulatory asset is an entity's right to recover fixed or determinable amounts of money towards incurred costs as a result of the actual or expected actions of its regulator under the applicable regulatory framework"
- 6.2.1.3 The National Tariff Policy has also prescribed guidelines for allowing the facility of regulatory assets to be recovered with carrying cost. In cases where regulatory asset is proposed to be adopted, it should be ensured that the return on equity should not become unreasonably low in any year so that the capability of the licensee to borrow is not adversely affected.
- 6.2.1.4 It is submitted that a distribution business is a regulated business whereby the business activities creates a gap between operational and accounting situations that would not have arisen in the absence of such regulation. With cost-of-service regulation, there is a direct link between the costs that an entity is expected to incur and its expected revenue as the rates is set to allow the entity to recover its expected costs. However, there could be a significant time lag between incurrence

of costs by the entity and their recovery through tariffs. Recovery of certain costs may be provided for by regulation either before or after the costs are incurred. Also, the need for creation of regulatory assets can be due to any or all of the following reasons:

- such as infrequent revision of tariffs,
- variation in the actual and estimated values of major expenditure along with their reasons and treatment;
- gap between the total validated expenditure and total estimated revenue;
- difference between the cost estimated and approved by the appropriate authority;
- effect of prescribed and achieved milestones for loss reduction and sharing of efficiencies and losses;

6.3 Cumulative Revenue Gap/(Surplus) till FY 2022-23

6.3.1 In the tariff order dated 7th April 2021, the Hon'ble Commission approved a consolidated revenue gap of **Rs. 375.89 Cr** till FY 2019-20 based on trued up costs till FY 2019-20.

6.3.2 PED submits that standalone revenue gap/(surplus) for FY 2020-21 based on actual costs and standalone gap/(surplus) based on revised estimates for FY 2021-22 and projected gap with Regulatory surcharge for the FY 2022-23 comes as under:

Table 6-1: Standalone Revenue Gap/ (Surplus) at existing tariff (Rs. Cr)

S. No.	Particulars	FY 2020-21	FY 2021-22	FY 2022-23
1	Aggregate Revenue Requirement	1470.43	1590.20	1614.88
2	Revenue from Sale of Power+ Regulatory Surcharge (5%)	1433.57	1590.49	1623.92
3	Revenue Gap/ (Surplus)	36.86	(0.29)	(9.04)

6.3.1 PED submits that the Hon'ble Commission vide its tariff order date 7th April 2021 for computation of carrying cost for FY 2019-20 and has not considered the prior period expenses of Rs. 126.32 Cr in the standalone gap and arrived at a closing Gap for FY 2019-20 of Rs. 249.57 Cr. In line with the Hon'ble Commission Tariff Order for computation of carrying cost, PED has adopted the same methodology and considered the closing Gap of FY 2019-20 as opening gap for FY 2020-21 and rate of interest at SBI 1 year MCLR + 1% as on 1st April of the relevant year. The detailed computation of carrying cost is shown in the table below:

Table 6-2: Computation of carrying Cost at existing tariff (Rs. Cr)

S.No.	Particulars	FY 2019-20 (Approved)	FY 2020-21	FY 2021-22	FY 2022-23
1	Opening Gap/(Surplus)	146.96	249.57	309.88	334.37

S.No.	Particulars	FY 2019-20 (Approved)	FY 2020-21	FY 2021-22	FY 2022-23
2	Addition Gap/(Surplus) (Standalone Gap)	84.54	36.86	-0.29	-9.04
3	Closing Gap/(Surplus)	231.5	286.43	309.59	325.33
4	Average Gap/(Surplus)	189.23	268.00	309.74	329.85
5	Rate of Interest	9.55%	8.75%	8.00%	8.00%
6	Carrying cost	18.07	23.45	24.78	26.39
7	Final Closing Gap/ (Surplus)	249.57	309.88	334.37	351.72

6.3.2 Now, considering the cumulative Gap upto FY2019-20, stand-alone Gap and carrying cost at existing tariff of each year for FY 2020-21, FY 2021-22 and FY 2022-23 the Cumulative Gap at existing tariff including Regulatory Surcharge for FY 2022-23 comes out to be as under:

Table 6-3: Cumulative Revenue Gap/(Surplus) at existing tariff (Rs. Cr)

S.No.	Particulars	FY 2019-20 (Approved)	FY 2020-21	FY 2021-22	FY 2022-23
1	Opening Gap/(Surplus)	146.96	375.89	436.20	460.69
2	Add: Gap/(Surplus)	210.86	36.86	-0.29	-9.04
3	Closing Gap/(Surplus)	357.82	412.75	435.91	451.65
4	Carrying cost	18.07	23.45	24.78	26.39
5	Final closing Gap/(Surplus)	375.89	436.20	460.69	478.04

6.3.3 From above, it can be seen that stand-alone Gap for FY 2020-21 is **Rs. 36.86 Cr** and the Cumulative Gap upto FY2020-21 is Rs. 436.20 Cr. Further the Cumulative Gap upto FY 2022-23 has increased upto **Rs. 478.04 Cr**. In order to bridge the Gap, PED proposes to increase the tariff for some category of consumers against the tariff for FY 2021-22 approved by the Hon'ble Commission in previous Tariff Order dated 7th April 2021 along with additional surcharge of 5%. Following Chapter deals with the meeting of cumulative revenue gap.

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CHAPTER 7. TARIFF FOR RETAIL SALE OF ELECTRICITY FOR FY 2022-23

7.1 Preamble

- 7.1.1 This section elucidates the retail tariff and proposed amendments in the retail tariff schedule to be applicable for FY 2022-23. PED prays the Hon'ble Commission to approve the retail tariff for FY 2022-23 as proposed for different categories of consumers, applicable from 1st April, 2022.

7.2 Tariff Design Principles

- 7.2.1 Over the years, Hon'ble Commission has been guided by the Electricity Act, 2003 and the National Tariff Policy while determining retail tariffs across the Union Territory, Puducherry. Hon'ble Commission has always laid emphasis on adoption of factors that encourages economy, efficiency, effective performance and improved conditions of supply. On these lines Hon'ble Commission, in this order too, may apply similar principles keeping in view the ground realities.

7.3 Philosophy of Tariff Design

- 7.3.1 PED submits that considering the total proposed cumulative Revenue Gap of Rs. 464.66 Cr till FY 2021-22, the Hon'ble Commission may kindly create a regulatory asset to recover the revenue gap during the three years of the next MYT Control period.
- 7.3.2 The petitioner, in the current petition is proposing few changes in the Tariff schedule for FY 2022-23 in order to bridge the partial cumulative gap. **Further, the Petitioner is requesting the Hon'ble Commission to allow recovery of the revenue gap via additional surcharge of 5% for FY 2022-23.**
- 7.3.3 PED requests the commission to approve the tariff schedule as proposed for FY 2022-23 as tabulated below:

Table 7-1: Summary of Existing and Proposed Tariff Rates for FY 2022-23

S.N o.	Category of Consumers	Existing Tariff		Proposed Tariff	
		Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
1	Life Line Services /OHOB				
a	0-50 units per month	-	Rs. 1.00/kWh	-	Rs. 1.00/kWh
2	Domestic Purposes				

S.N o.	Category of Consumers	Existing Tariff		Proposed Tariff	
		Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
a	0-100 units per month	Rs. 40/connection/ month	Rs. 1.55 /kWh	Rs. 40/connection/ month	Rs. 1.90 /kWh
b	101-200 units per month	Rs. 45/connection/ month	Rs. 2.60 /kWh	Rs. 45/connection/ month	Rs. 2.75 /kWh
c	201-300 units per month	Rs. 45/connection/ month	Rs. 4.65 /kWh	Rs. 45/connection/ month	Rs. 4.65 /kWh
d	Above 300 units per month	Rs. 45/connection/ month	Rs. 6.05 /kWh	Rs. 45/connection/ month	Rs. 6.05 /kWh
3	Commercial				
I	LT Commercial				
a	0-100 units per month	Rs. 75.00 /kW/Month	Rs. 5.70 /kWh	Rs. 75.00 /kW/Month	Rs. 5.70 /kWh
b	101-250 units per month		Rs. 6.75 /kWh		Rs. 6.75 /kWh
c	Above 250 units per month		Rs. 7.50 /kWh		Rs. 7.50 /kWh
II	HT Commercial (For contract demand up to 5000 kVA)	Rs. 420 /kVA / month	Rs. 5.45 /kVAh	Rs. 420 /kVA / month	Rs. 5.50 /kVAh
4	Agriculture				
I	Agriculture				
	Small farmers	Rs. 11/HP/month	-	Rs. 20/HP/month	-
	Other Farmers	Rs. 50/HP/month	-	Rs. 75/HP/month	-
II	Cottage Industries/Poultry Farms /Horticulture/ Pisciculture				
a	0-100 units per month	Rs. 40/connection/ month	Rs. 1.55 /kWh	Rs. 40/connection/ month	Rs. 1.90 /kWh
b	101-200 units per month	Rs. 45/connection/ month	Rs. 2.60 /kWh	Rs. 45/connection/ month	Rs. 2.75 /kWh
c	201-300 units per month	Rs. 45/connection/ month	Rs. 4.65 /kWh	Rs. 45/connection/ month	Rs. 4.65 /kWh
d	Above 300 units per month	Rs. 45/connection/ month	Rs. 6.05 /kWh	Rs. 45/connection/ month	Rs. 6.05 /kWh
5	Public Lighting				
a	Public Lighting	Rs.110/pole/ month	Rs. 6.80 /kWh	Rs.110/pole/ month	Rs. 6.80 /kWh
6	Industries				
a	LT Industries	Rs.50.00 /kW/Month	Rs. 6.05/kWh	Rs.50.00 /kW/Month	Rs. 6.05/kWh
b	HT Industries (For Supply at 11 kV, 22 kV or 33 kV)	Rs. 420 / kVA / month	Rs. 5.30 /KVAh	Rs. 420 / kVA / month	Rs. 5.35 /KVAh

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S.No.	Category of Consumers	Existing Tariff		Proposed Tariff	
		Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
c	EHT Industries (For Supply at 110 kV or 132 kV)	Rs. 480 / kVA / month	Rs. 5.10 /KVAh	Rs. 480 / kVA / month	Rs. 5.15 /KVAh
7	LT Water Works	Rs. 150/connection/month	Rs. 6.90/kWh	Rs. 150/connection/month	Rs. 6.90/kWh
8	HT Other	Rs. 480/ kVA /month	Rs. 6.35/KVAh	Rs. 480/ kVA /month	Rs. 6.40/KVAh
9	Temporary Supply	Tariff for Temporary Connection shall be Fixed/ Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both. For multi activity pursuit, applicable Tariff for temporary connection shall be with reference to that of non-domestic category for permanent supply.		Tariff for Temporary Connection shall be Fixed/ Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both. For multi activity pursuit, applicable Tariff for temporary connection shall be with reference to that of non-domestic category for permanent supply.	
10	Electric Vehicle Charging Station	-	Rs.4.50 /kWh	-	Rs.4.50 /kWh
11	Hoardings/signboards	Rs. 140/kVA/ month or part thereof	Rs. 8.00/kWh	Rs. 140/kVA/ month or part thereof	Rs. 8.00/kWh

*A Regulatory Surcharge of 5.00% is proposed to all the consumer categories as a percentage of the total Energy and Demand charges payable by the consumer towards recovery of past accumulated deficit.

7.4 Revenue from Sale of Power at Proposed Tariff for FY 2022-23

7.4.1 The Revenue from sale of power at proposed Tariff based on the projected sales, consumer and connected load for FY 2022-23 is tabulated below:

Table 7-2: Revenue from Sale of Power at proposed tariff for FY 2022-23

Category	Revenue at proposed tariff FY 2022-23				
	Sales (Mus)	Fixed Charge (Rs. Cr)	Energy Charge (Rs. Cr)	5% Surcharge (Rs. Cr)	Total Revenue (Rs. Cr.)
LT Category					
Domestic & Cottage	826.89	19.65	257.64	13.86	291.15
OHOB/Life Line Services	3.50	0.00	0.35	0.02	0.37
Commercial	210.00	13.94	146.61	8.03	168.58
Agriculture	61.17	5.04	0.00	0.25	5.29
Public lighting	17.50	6.99	11.90	0.94	19.83

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Category	Revenue at proposed tariff FY 2022-23				
	Sales (Mus)	Fixed Charge (Rs. Cr)	Energy Charge (Rs. Cr)	5% Surcharge (Rs. Cr)	Total Revenue (Rs. Cr.)
LT Industrial	126.59	6.19	76.59	4.14	86.92
Water tank	41.06	0.15	28.33	1.42	29.90
Temporary supply - LT&HT	5.06	0.00	4.94	0.25	5.18
Total LT	1291.78	51.95	526.35	28.92	607.22
HT Category					
HT-1 Industries and commercial	1018.35	120.17	557.27	33.87	705.85
HT 2 - Government & non-Industrial & non-Commercial	76.75	13.62	50.12	3.19	66.93
HT 3 - EHT Industries	437.36	23.21	229.84	12.65	265.71
Total HT	1532.47	157.00	837.23	49.71	1043.94
Grand Total	2824.25	208.95	1363.58	78.63	1651.16

7.4.2 PED hereby submits that the revenue mentioned above does not consist of FPPCA charges. In view of above, the Hon'ble Commission is requested to kindly allow Revenue at proposed tariff as proposed for FY 2022-23.

7.5 Revenue Gap at proposed Tariff for FY 2022-23

7.5.1 The revenue gap at proposed tariff has been calculated for FY 2022-23 is shown in the table below:

Table 7-3: Revenue Gap at proposed tariff for FY 2022-23 (Rs. Cr)

Particulars	FY 2022-23
Aggregate Revenue Requirement (ARR)	1614.88
Less: Revenue at Proposed Tariff	1651.16
Revenue Gap/ (Surplus)	(36.28)

7.5.2 In view of above, the Hon'ble Commission is requested to kindly allow the Revenue surplus of **Rs.36.28 Cr** during FY 2022-23 at proposed tariff, considering 5% regulatory surcharge for FY2022-23.

7.6 Cumulative Revenue Gap/(Surplus) at proposed till FY 2022-23

7.6.1 In line with the Hon'ble Commission Tariff Order for computation of carrying cost, PED has adopted the same methodology and considered the closing Gap of FY 2019-20 as opening gap for FY 2020-21 and rate of interest at SBI 1 year MCLR + 1% as on

1st April of the relevant year. The detailed computation of carrying cost is shown in the table below:

Table 7-4: Computation of carrying Cost at proposed tariff (Rs. Cr)

S.No.	Particulars	FY 2019-20 (Approved)	FY 2020-21	FY 2021-22	FY 2022-23
1	Opening Gap/(Surplus)	146.96	249.57	309.88	334.37
2	Addition Gap/(Surplus) (Standalone Gap)	84.54	36.86	-0.29	-36.28
3	Closing Gap/(Surplus)	231.5	286.43	309.59	298.09
4	Average Gap/(Surplus)	189.23	268.00	309.74	316.23
5	Rate of Interest	9.55%	8.75%	8.00%	8.00%
6	Carrying cost	18.07	23.45	24.78	25.30
7	Final Closing Gap/ (Surplus)	249.57	309.88	334.37	323.39

7.6.2 Now, considering the cumulative Gap upto FY2019-20, stand-alone Gap and carrying cost at proposed tariff for FY 2022-23, the Cumulative Gap at proposed tariff including Regulatory Surcharge for FY 2022-23 comes out to be as under:

Table 7-5: Cumulative Revenue Gap/(Surplus) at proposed tariff (Rs. Cr)

S.No.	Particulars	FY 2019-20 (Approved)	FY 2020-21	FY 2021-22	FY 2022-23
1	Opening Gap/(Surplus)	146.96	375.89	436.20	460.69
2	Add: Gap/(Surplus)	210.86	36.86	-0.29	-36.28
3	Closing Gap/(Surplus)	357.82	412.75	435.91	424.41
4	Carrying cost	18.07	23.45	24.78	25.30
5	Final closing Gap/(Surplus)	375.89	436.20	460.69	449.71

7.6.1 PED requests the Hon'ble Commission to approve the proposed the Tariff schedule for FY 2022-23 in order to bridge the partial cumulative gap. Further, the Petitioner is requesting the Hon'ble Commission to allow recovery of the revenue gap via additional surcharge of 5% for FY 2022-23.


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CHAPTER 8. SEGREGATION OF WHEELING AND RETAIL SUPPLY BUSINESS

8.1 Allocation Policy

8.1.1 PED submits the bifurcation of all expenses between the functions of wheeling business (wire business) and retail supply business based on the allocation matrix as per Regulation 49 of the JERC MYT Regulations 2021. The summary of the allocation statement and the segregation of ARR into wheeling and retail supply business is given in the table below:

Table 8-1: Allocation Statement Wheeling and Retail Supply for FY 2022-23

Segregation of ARR for FY 2022-23						
Sr. No.	Item of expense	Wheeling Business	Retail Supply Business	Wheeling Business	Retail Supply Business	Total
		%	%	Rs. Cr.		
1	Cost of power purchase	0%	100%	-	1,365.58	1,365.58
2	Employee costs	40%	60%	46.16	69.25	115.41
3	R&M expenses	90%	10%	7.93	0.88	8.81
4	Administration and General expenses	50%	50%	9.52	9.52	19.04
5	Depreciation	90%	10%	32.94	3.66	36.60
6	Interest & Financial charges	90%	10%	10.35	1.15	11.50
7	Interest on Working Capital	10%	90%	0.56	5.06	5.62
8	Return on NFA /Equity	90%	10%	41.85	4.65	46.50
9	Provision for Bad Debt	0%	100%	-	-	-
10	Interest on Consumer Security Deposit	10%	90%	0.94	8.43	9.37
11	Total Revenue Requirement			150.25	1,468.18	1,618.43
12	Less: Non Tariff Income	10%	90%	0.35	3.19	3.54
13	Net Revenue Requirement (11-12)			149.89	1,464.99	1,614.88

8.1.2 PED requests the Hon'ble Commission to approve the segregation of ARR into wheeling & retail supply business for FY 2022-23 as per above table.


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9.1.1 PED submits that as per Regulation 68.2 and 68.3 of JERC MYT Regulations, 2021, category wise cost of supply needs to be computed for facilitating determination of tariff and for gradual reduction of cross subsidy. Cost of supply study also facilitates determination of cross subsidy surcharge. However, the cost of supply methodology suggested by APTEL is based on voltage wise segregation.

9.1.2 Accordingly, PED has computed open access charges considering the following wheeling losses for HT & EHT and allocation % for wheeling cost between HT & LT as approved in Tariff Order FY 2021-22.

9.1.3 Wheeling Loss at EHT Level and HT level are considered as - 1.5% and 5.44% respectively (balance losses attributable to LT Level)

9.2.1 Based on above mentioned and the projections for Sales and Wheeling ARR for FY 2022-23, the wheeling charges for HT/EHT & LT are determined.

9.2.2 In line with methodology, adopted by Hon'ble Commission in tariff order for FY 2021-22 to determine wheeling charges and losses, PED has calculated wheeling charges for LT and HT/EHT level. As per segregated ARR, out of total wheeling cost, O&M cost and other cost has been separated, O&M cost is allocated between LT, HT and EHT level based on number of consumers, whereas other cost allocated between LT, HT and EHT level as per assets allocation ratio. Parameters assumed for allocation of wheeling cost at LT, HT and EHT level as given below: -

Category	Consumers	Asset Allocation (%)	Sales (MU)	Cumulative Voltage wise Losses (%)
Low Tension (LT) Level	511290	50.00%	1291.78	17.78%
High Tension (HT)	531	40.00%	1095.11	5.44%
Extra High Tension(EHT) Level	8	10.00%	437.36	1.50%
Total	511829	100%	2824.25	11.000%

9.2.3 Based on above assumption of parameters, the wheeling charge at LT and HT/EHT level has been determined as shown below.

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Category	O&M	Others	Total	Total re-distributed cost (based on Input energy)	Sales (MU)	Wheeling Charges (Rs/kWh)
Low Tension (LT) Level	63.54	43.16	106.70	130.90	1291.78	1.01
High Tension (HT)	0.07	34.53	34.60	17.83	1095.11	0.16
Extra High Tension(EHT) Level	0.00	8.63	8.63	1.21	437.36	0.03
Total	63.61	86.32	149.93	149.93	2,824.25	

9.2.4 PED requests the Hon'ble Commission to approve wheeling charges for different categories as determined in above table.

9.3 Additional Surcharge

9.3.1 The Hon'ble Commission has notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Connectivity and Open Access in Intra-State Transmission and Distribution) Regulations, 2017. The Regulation 4.5 (1) of the said Regulations states the following:

"An Open Access Consumer, receiving supply of electricity from a person other than the Distribution Licensee of his area of supply, shall pay to the Distribution Licensee an additional surcharge in addition to wheeling charges and cross-subsidy surcharge, to meet the fixed cost of such Distribution Licensee arising out of his obligation to supply as provided under sub-section (4) of Section 42 of the Act:

Provided that such additional surcharge shall not be levied in case Open Access is provided to a person who has established a captive generation plant for carrying the electricity to the destination of his own use."

Regulation 4.5 (2) of the said Regulations stipulates:

This additional surcharge shall become applicable only if the obligation of the Licensee in terms of power purchase commitments has been and continues to be stranded or there is an unavoidable obligation and incidence to bear fixed costs by the Licensee consequent to such a contract. However, the fixed costs related to network assets would be recovered through wheeling charges"

9.3.2 Further, Regulation 5.2 (1) (b) states the following:

"The quantum of drawal of electricity by a partial Open Access Consumer from the

Distribution Licensee during any Time Block of a Day should not exceed the "Admissible Drawl of Electricity by the Open Access Consumer" which is the difference of Contract Demand and maximum quantum of Open Access for which approval has been granted by the Nodal Agency.

[Illustration: If an Open Access Consumer with a Contract Demand of 10 MW has been given an approval for a maximum Open Access quantum of 6MW for a period of 3 Months, the Admissible Drawl of Electricity from the Distribution Licensee during any Time Block shall be 4 MW for any Day during a period of 3 Months.]”

- 9.3.3 In line with the above Regulations, PED has determined additional surcharge as per the table below:

Table 9-2: Additional Surcharges for FY 2022-23

Particulars	FY 2022-23
Total Power Purchase cost	1,365.58
Fixed Cost component in Power Purchase Cost (excluding Transmission Charges)	372.04
Energy Sales (MU)	2,824.25
Additional Surcharge (Rs/kWh)	1.32

- 9.3.4 PED requests the Hon’ble Commission to approve additional surcharge of **Rs.1.32 /kWh** as determined in above table.

9.4 Computation of Cross Subsidy Surcharge for FY 2022-23

- 9.4.1 The National Electricity Policy as stipulated by the Central Government provides that –Under sub – section (2) of Section 42 of the Act, a surcharge is to be levied by the respective State Commissions on consumers switching to alternate supplies under open access. This is to compensate the host distribution licensee serving such consumers who are permitted Open Access under Section 42 (2), for loss of cross subsidy element built into the tariff of such consumers. An additional surcharge may also be levied under sub – section (4) of section 42 of the said Act for meeting the fixed cost of the distribution licensee arising out of obligation to supply in cases where consumers are allowed open access.

- 9.4.2 The Government of India has notified the National Tariff Policy, 2016 on 28th January 2016. The Cross-subsidy surcharge is based on the following formula given in the Tariff Policy, 2016 which is as follows:

$$S = T - [C / (1 - L/100) + D + R]$$

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Where,

S is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation;

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation;

D is the aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level

L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level

R is per unit cost of carrying regulatory assets.

9.4.3 However, calculation of Cross subsidy surcharge is calculated in this chapter as per methodology adopted by Hon'ble Commission in last tariff order for FY 2021-22.

9.4.4 Voltage wise losses for EHT and HT are considered at 1.50% and 5.44% respectively. In order to maintain the Intra-State T&D losses at 11% for FY 2022-23 as proposed in Business Plan for MYT control period FY 2022-23 to 2024-25, cumulative losses at LT level is considered **17.78%**.

Voltage wise energy sales based on Sales for FY 2022-23 in business Plan petition is considered and accordingly level wise calculation of energy input considering above voltage wise losses is arrived at as under:

Table 9-3: Energy Input at each voltage level (MU)

Category	Energy Sales (MU)	Cumulative Losses (%)	Energy Input (MU)
Low Tension (LT) Level	1291.78	17.78%	1,571.18
High Tension (HT)	1095.11	5.44%	1,158.11
Extra High Tension(EHT) Level	437.36	1.50%	444.03
Total	2824.25	11.00%	3,173.31

9.4.5 Overall ARR arrived for FY 2022-23 is divided into variable and fixed ARR with variable ARR comprising of variable component of the power purchase cost and fixed ARR comprising of all the other costs.

9.4.6 The fixed component comprising of fixed cost of power purchase, O&M etc. is further allocated to each voltage category as per the following principles:

- The fixed cost of power purchase is assigned to each voltage level on the basis of energy input at respective voltage levels.

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- The O&M expenses are allocated to each voltage level on the basis of the number of consumers. The resultant cost allocated to EHT, HT and LT levels is then further allocated between EHT, HT and LT level on the basis of input energy, as the EHT and HT network is utilized by both EHT and HT consumers and HT network is utilized by both HT and LT network consumers.
- The remaining fixed costs are allocated on the basis of voltage wise asset allocation assumed earlier and further allocated to respective voltage levels on the basis of input energy.

Table 9-4: Parameters used for allocation of fixed costs

Category	Energy Input (MU)	Voltage wise Asset Allocation (%)	Number of Consumers
Low Tension (LT) Level	1,571.18	50.00%	5,11,290
High Tension (HT)	1,158.11	40.00%	531
Extra High Tension(EHT) Level	444.03	10.00%	8
Total	3,173.31	100.00%	5,11,829

- 9.4.7 The Variable component of the Power purchase cost is allocated on the basis of energy input.
- 9.4.8 The Voltage wise cost of supply (VCoS) is then calculated on the basis of energy sales of respective categories. Accordingly, the VCoS is determined as shown in the table below:

Table 9-5: Voltage wise Cost of Supply

Category	Allocated Fixed Cost (Rs Cr)					Allocated Variable Cost (Rs Cr) @ Input Energy	Total Cost (Rs Cr)	Energy Sales (MU)	VCoS (Rs/kwh)
	Power Purchase FC @ Input Energy	O&M FC @ No. of Consumer	O&M FC further @ Input energy	Other FC @ Asset allocation	Other FC further @ Input energy				
Low Tension (LT) Level	184.2	143.10	143.19	55.00	54.46	491.9	874	1,292	6.76
High Tension (HT)	135.8	0.15	0.064	44.00	40.14	362.6	539	1,095	4.92
Extra High Tension(EHT) Level	52.1	0.00	0.000	11.00	15.39	139.0	206	437	4.72
Total	372	143	143	110.00	110.00	994	1,619	2,824	5.73

- 9.4.9 As per above VCoS calculated and applicable level wise ABR level, following is the Cross-subsidy surcharge for FY 2022-23.

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Table 9-6: Cross Subsidy Surcharge

Category	VCoS (Rs/kWh)	ABR (Rs/kWh)	Cross-Subsidy (Rs/kWh)
Low Tension (LT) Level	6.76	4.70	NIL
High Tension (HT)	4.92	7.11	2.19
Extra High Tension(EHT) Level	4.72	6.08	1.36

9.4.10 Based on the above computations, PED requests the Hon'ble Commission to approve the cross-subsidy surcharge of **Rs. 2.19/kWh** for HT and **Rs. 1.36/kWh** for EHT consumers in FY 2022-23.

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CHAPTER 10. COMPLIANCE OF THE DIRECTIVES OF HON'BLE COMMISSION

10.1 Preamble

10.1.1 This section lists the directives issued by the Hon'ble Commission in the previous tariff order and the status of their compliances.

10.2 Status of Compliance

Table 10-1: Status of Compliance of directives

No	Directives/ Commission's Response	Status and Action Taken Report
1.	Directive No. 09.1.1 Energy Audit and T&D Losses The Commission has taken a serious view of the fact that the Petitioner has not submitted the Energy Audit Report along with the Tariff Petition for FY 2021-22. As per the timelines envisaged by the Petitioner the Energy Audit Report should be completed by March 2021 therefore the Commission directs the Petitioner to submit the same within 1 month of issue of this Order.	BEE has awarded the work of Energy Audit at Feeder Level and to ascertain the T & D Losses the work has been taken up by M/s. Zenith Energy India (P) Limited. M/s. Zenith has collected all base line data required for Energy Audit for 4 years (FY 2017-18 to 2020-21). The report is yet to be received from Zenith. The same will be submitted to the Hon'ble commission shortly.
2.	Directive No. 09.1.2 Proposal of the Energy Charges for the Agriculture category The Commission takes note of the efforts of the Petitioner in this regard and directs the Petitioner to provide 100% metering to all agricultural consumers as proposed by the Petitioner. The Commission directs the Petitioner to submit a report on the same within 1 month of issue of this Order.	The provision for metering in Agriculture services have been included in the RDSS scheme under pre-paid smart meter scheme. The work of installation of Smart Meters to all consumers has been awarded to M/s. PFCCL on nomination basis with the approval of MHA. The RfP for appointing AMISP has been floated by M/s. PFCCL on 03-12-2021.

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No	Directives/ Commission's Response	Status and Action Taken Report
3.	<u>Directive No.09.1.3</u> <u>Determination of Voltage-wise Wheeling charges and Category-wise /Voltage-wise Cost of Supply</u> The Commission has taken a serious view of the fact that the Petitioner has been unable to submit the Voltage wise Asset Register or the Energy Audit Report. In light of the same, the Commission in this Tariff Order has again determined the voltage wise wheeling charges based on certain assumptions. The Commission directs the Petitioner to submit all the requisite information for determination of voltage wise wheeling charges along with petition for determination of tariff for FY 2022-23.	This Department is maintaining year wise Transmission and Distribution Asset Registers separately. However the 22 KV & 11 KV infrastructure assets will be segregated from the Distribution asset and the report will be submitted. The Energy Audit report will be submitted shortly to the Hon'ble Commission.
4.	<u>Directive. No.09.1.4</u> <u>New Bill Format</u> The Commission takes note of the efforts by the Petitioner in this regard. The Commission directs the Petitioner to submit a report on the progress of the same within 1 month of issue of this Order.	The software for new bill format has been developed and implemented in Urban Area of Puducherry and the action is being taken to implement the same to other regions and rural areas of Puducherry and it is expected to be completed by Jan'2022.
5.	<u>Directive No. 09.1.5</u> <u>Time of Day (TOD) Tariff for HT/EHT consumers</u> The Commission takes note of the efforts by the Petitioner in this regard. The Department directs the Petitioner to submit a report on the progress of the same within 1 month of issue of this Order.	Out of existing 473 Nos. of HT/EHT consumers, 441 nos. of consumers have been provided with TOD enabled Energy meters. For balance 32 Nos. of consumer metering, action will be taken to provide TOD enabled meters by January 2022

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No	Directives/ Commission's Response	Status and Action Taken Report
6.	<u>Directive No. 09.1.6</u> <u>Compliance Towards Renewable Purchase Obligation</u> The Commission takes note of the Petitioner's Submission. The Petitioner is directed to expedite the engagement of solar power suppliers to ensure compliance of the RPO obligations and a report thereof to be submitted along with the next tariff petition.	In order to meet the RPO, the Electricity Department Puducherry has already signed a Power Sale Agreement (PSA) with M/s. SECI towards purchase of 240.64 (100+140.64)MW of wind power and 50 MW of Solar Power from ISTS connected RE power projects of MNRE. Under the scheme introduced by GOI namely "Flexibility in Generation and Scheduling of Thermal Power station" NTPC Shimadri stage II has proposed 25 MW solar power plant for UT of Puducherry, which is being availed by the Department. Based on the availability of Renewable Energy from these plants, the RPO will be met partially. Further the Electricity Department Puducherry has also signed a PSA with NTPC for procurement of 100 MW of Solar Power.
7.	<u>Directive No. 09.1.7</u> <u>Utilising of Provision of FPPCA formula</u> The Commission observed that the Petitioner has still not implemented FPPCA mechanism. The Petitioner is not recovering/refunding any revenue pertaining to FPPCA from/to consumers. This may affect their cash flow. Therefore, the Commission directs the petitioner to make use of the FPPCA formula for any adjustments on account of fuel and power purchase cost variation on quarterly basis from FY 2021-22 onwards and submit the supporting bills/documents for the FPPCA calculations on quarterly basis to	The first quarter of FPPCA calculation has been submitted to Hon'ble JERC. The second quarter has been prepared and the same will be submitted shortly.


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No	Directives/ Commission's Response	Status and Action Taken Report
	the Commission for evaluation and assessment.	
	New Directives	
1.	09.2.1. Category-wise per kW/kVA data The Commission directs the Petitioner to start capturing the connected load / contracted demand data for all the categories and submit the same to the Commission in the next tariff petition.	The Same will be submitted during the TVS of Tariff Petition for FY 2022-23.
2.	09.2.2. New billing software The Commission observes that the implantation of the new billing software is pending since 2 years. The Commission directs the Petitioner to ensure quick implementation of the new software so that accurate and complete data is captured and made available for true-up and determination of tariff.	PED is in the Process of upgrading the billing software. PED had requested the National Informatics Centre to develop Meter Reading Billing and Collection web-based Software which has been operationalised now in Puducherry city. It is expected to cover the whole UT within next 2 months.
3.	09.2.3. Fixed Assets Register (FAR) The Commission directs the petitioner to ensure preparation of FAR and submit the same to the Commission along with the next tariff petition.	The Same will be submitted during the TVS of Tariff Petition for FY 2022-23.
4.	09.2.4. Quarterly status reports It has been observed that quarterly status reports for metering & billing, RPO compliance, FPPCA, SOPs, Capex and Capitalisation, and CGRF are not being submitted to the Commission in a regular and timely manner. The Commission directs the Petitioner to submit aforementioned reports regularly along with the supporting documents.	PED submits that the all the quarterly report shall be submitted in timely manner. But due to the prevailing Covid -19 conditions the quarterly reports are being delayed. The Directive of the Commission will be complied.

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CHAPTER 11. PROPOSED TARIFF SCHEDULE FOR FY 2022-23

11.1 Tariff Schedule for FY 2021-22

- 11.1.1 PED requests the commission to approve the following proposed tariff schedule and base rates for FY 2022-23.
- 11.1.2 The tariff indicated in this tariff schedule is the tariff rate proposed to be payable by the consumers of Union Territory of Puducherry.
- 11.1.3 A Regulatory Surcharge of 5.00% shall be applicable to all the consumer categories as a percentage of the total Energy and Demand charges payable by the consumer towards recovery of past accumulated deficit subject to approval from Hon'ble Commission.
- 11.1.4 These tariffs are exclusive of electricity duty, tax on sale of electricity, taxes and other charges levied by the Government or other competent authorities from time to time.
- 11.1.5 Unless otherwise agreed to, these tariffs for power supply are applicable to single point of supply.
- 11.1.6 The power supplied to a consumer shall be utilized only for the purpose for which supply is taken and as provided for in the tariff. If energy supplied for a specific purpose under a particular tariff is used for a different purpose, not contemplated in the contract for supply and / or for which higher tariff is applicable, it will be deemed as unauthorized use of electricity and shall be dealt with for assessment under the provisions of section 126 of the Electricity Act, 2003 & Supply Code Regulation notified by JERC. Provided that,
- If a portion of the domestic premises limited to only one room is used for running small household business having connection under domestic category, such connection shall be billed under domestic category provided that the total monthly consumption of the consumer (including consumption for above mentioned small household business) does not exceed 150 kWh.
 - If either more than one room or only one room having monthly consumption exceeding 150 kWh for consecutive three months is detected in the domestic premises being used for mixed purposes having domestic connection, such connection shall further be billed under commercial category until a separate

connection of appropriate tariff is taken for that portion used for non-domestic purpose.

- 11.1.7 If the consumer fails to pay the energy bill presented to him by the due date, the Department shall have the right to disconnect the supply as per the Act & Supply Code Regulations notified by JERC.
- 11.1.8 Fixed charges, wherever applicable, will be charged on pro-rata basis from the date of release of connection. Fixed charges, wherever applicable, will be double as and when bi-monthly billing is carried out, similarly slabs of energy consumption will also be considered accordingly in case of bi-monthly billing.
- 11.1.9 The billing in case of HT/EHT shall be on the maximum demand recorded during the month or 85% of contracted demand, whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand shall be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal rate. The definition of the maximum demand would be in accordance with the provisions of the Supply Code Regulation notified by JERC. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.
- Explanation:** Assuming the contract demand as 100 KVA, maximum demand at 120 KVA and total energy consumption as 12000 kWh, then the consumption corresponding to the contract demand will be 10000 kWh ($12000 \times 100 / 120$) and consumption corresponding to the excess demand will be 2000 kWh. This excess demand of 20 KVA and excess consumption of 2000 kWh will be billed at twice the respective normal rate. Such connections drawing more than 120 kVA, shall be disconnected immediately.
- 11.1.10 Unless specifically stated to the contrary, the figures of energy charges relate to Rs per unit (kWh) charge for energy consumed during the month.
- 11.1.11 **Delayed payment surcharge** shall be applicable to all categories of consumers. Delayed payment surcharge of 2% per month or part thereof shall be levied on all arrears of bills. In case of delay less than a month, the surcharge will be levied at 2% per month on proportionate basis considering a month consists of 30 days. Such surcharge shall be rounded off to the nearest multiple of one rupee. Amount less than 50 paise shall be ignored and amount of 50 paise or more shall be rounded off

to next rupee. In case of permanent disconnection, delayed payment surcharge shall be charged only up to the month of permanent disconnection.

11.1.12 Advance Payment Rebate: If payment is made in advance well before commencement of consumption period for which bill is prepared, a rebate @ 1% per month shall be given on the amount (excluding security deposit) which remains with the licensee at the end of the month. Such rebate, after adjusting any amount payable to the licensee, shall be credited to the account of the consumer.

11.1.13 Prompt Payment Rebate: If payment is made at least 7 days in advance of the due date of payment a rebate for prompt payment @ 0.25 % of the bill amount shall be given. Those consumers having arrears shall not be entitled for such rebate.

Provided that in case the payment is made by cheque, the prompt payment discount will be applicable only if the payment by cheque is made 3 days prior to date of availing the prompt payment discount i.e. before 10 days from the due date of payment.

11.1.14 Time of Day (ToD) Tariff

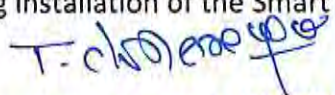
- i. Under the Time of Day (ToD) Tariff, electricity consumption and maximum demand in respect of HT/EHT consumers for different periods of the day, i.e. normal period, peak load period and off-peak load period, shall be recorded by installing a ToD meter.
- ii. The maximum demand and consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.

Table 11-1: ToD charges

Time of use	Demand charges	Energy charges
Normal period (6:00 a.m. to 6:00 p.m.)	Normal rate	Normal rate of Energy charges
Evening Peak load period (6:00 p.m. to 10:00 p.m.)	Normal rate	120% of normal rate of Energy charges
Off-peak load period (10:00 p.m. to 6:00 a.m.)	Normal rate	90% of normal rate of Energy charges

- iii. Applicability and Terms and Conditions of TOD tariff:

1. The Commission directs the Petitioner to introduce the TOD tariff as mentioned above urgently including installation of the Smart Meters to capture ToD consumption.


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2. The facility of aforesaid TOD tariff shall not be available to the HT/EHT consumers having captive power plants and/or availing supply from other sources through wheeling of power
3. The HT/EHT industrial consumers who have installed standby generating plants shall also be eligible for the aforesaid TOD tariff
4. In the event of applicability of the TOD tariff to a consumer, all other terms and conditions of the applicable tariff shall continue to apply

11.2 Low Tension Supply

LT supply limit for all categories: For single phase connection, the connected load shall not exceed 5 kW, and for 3 phase connection, the connected load shall not exceed 100 kVA

Domestic Purposes

11.2.1 Domestic Purposes (A2)

1. This tariff is applicable to services for lights, fans, air-conditioning, heating and other small domestic appliances etc. used for:
 - a) Genuine domestic purposes including common services for stair-case, lifts, water tanks in the purely domestic apartments.
 - b) Supply to actual places of public worship such as temples, mosques, churches etc.
 - c) Ashrams and Mutts, non-commercial orphanage homes and old people homes run by religious and charitable institutions, social welfare and voluntary organizations.
 - d) Youth hostels, Harijan hostels, Rehabilitation Centres, Anganwadies and Balwadies run by Social Welfare Department.
 - e) All Government Schools along with related facilities
 - f) For own residences where one room is set apart for the purpose of consultation by doctors, lawyers, engineers, architects and auditors.
 - g) To handloom in residence of handloom weavers (regardless of the fact whether outside labour is employed or not) and to handloom in sheds erected.
 - h) To the residences where supply from a house is extended to tailoring shops, job typing, document writing, laundry pressing, and small caterers set up in the verandah of the house with small lighting load only (one tube light only).
2. The charges for domestic service are as indicated in the table below:


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Table 11-2: Existing and Proposed Charges for Domestic Category

Consumption Range	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
0-100 units per month	Rs.40/ connection/month	Rs.1.55/kWh	Rs.40/ connection/month	Rs.1.90/Kwh
101-200 units per month	Rs.45/ connection/month	Rs.2.60/kWh	Rs.45/ connection/month	Rs.2.75/Kwh
201-300 units per month	Rs.45/ connection/month	Rs.4.65/Kwh	Rs.45/ connection/month	Rs.4.65/Kwh
Above 300 units per Month	Rs.45/ connection/month	Rs.6.05/Kwh	Rs.45/ connection/month	Rs.6.05/kWh

PED has proposed to increase the Energy charge from Rs.1.55/kWh to Rs.1.90/kWh for first 100 units & from Rs.2.60/kWh to Rs.2.75/kWh for next 101-200 units.

3. The method of billing of charges shall be as explained below (specifically for FY 2021-22).
 - a) Say units billed in a month are 80 units. Then the fixed charges will be Rs. 40/month and energy charges Rs. 120 (80 units X Rs 1.50/unit).
 - b) In case the units billed are 275, then the fixed charges will be Rs. 60/month and energy charges will be Rs 742.50 (100 units X 1.50 + 100 units X 2.55 + 75 units X 4.50).

11.2.2 LIFELINE SERVICES (A3)

1. OHOB connections have been converted into metered connections hence, from 1st April, 2020 they have been charged as per metered tariff upto 50 units at INR 1.00/ kWh and No Fixed Charges. If the consumption exceeds 50 units then Domestic tariff shall be applicable.
2. The charges for life Line Services/ hut services (OBOH) are as indicated in table below:

Table 11-3: Existing and Proposed Charges for Hut Category

Description	Existing Charges	Proposed Charges
Life Line Services/ OHOB	Energy Charges- Rs.1.00/kWh	Energy Charges- Rs.1.00/kWh

11.2.3 LT COMMERCIAL (A1)

1. This tariff is for lights and combined installation of lights and fans, mixed loads of lights and power, heating and air-conditioning applicable to:

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- a) Non-domestic and non-industrial consumers, trade and commercial premises.
- b) All Educational institutions excluding Government schools along with related facilities
- c) Hotels, Restaurants, Boarding and Lodging Homes.
- d) Hospitals, Private clinics, Nursing Homes, Diagnostic Centre's, X-ray Units etc.
- e) IT related development centres and service centres.
- f) Common services for stair-case, lifts, water tanks etc. in the purely commercial /combination of commercial and domestic.

2. The charges are as indicated in the table below.

Table 11-4: Existing and Proposed Charges for LT Commercial Category

Consumption Range	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
0-100 units per month	Rs.75/kW/Month	Rs.5.70/kWh	Rs.75/kW/Month	Rs.5.70/kWh
101-250 units per month		Rs.6.75/kWh		Rs.6.75/kWh
Above 250 units per month		Rs.7.50/kWh		Rs.7.50/kWh

AGRICULTURE SERVICES (D)

Agriculture/ Cottage Industries etc.

11.2.4 Agriculture (D1)

For supply to bonafide agricultural services with a connected load of not less than 3 HP per service.

Table 11-5: Existing and Proposed Charges for Agriculture Category

Consumer Category	Existing Fixed Charges	Proposed Fixed Charges
Small Farmers	Rs. 11.00/HP/ Month	Rs. 20.00/HP/Month
Other Farmers	Rs. 50.00/HP/ Month	Rs.75.00/HP/ Month

PED has proposed to hike the existing prices from Rs. 11.00/HP/Month to Rs. 20/HP/Month for Small farmers & from Rs. 50.00/HP/Month to Rs. 75/HP/Month for Other farmers.

Note:

- a. Electricity will be supplied under the tariff category "Small farmers" to those consumers whose families are solely dependent on the income derived from their

agricultural land holding, which should not exceed two and half acres of wet land or five acres of dry land. A certificate to this effect from Revenue authority shall be produced. "Small farmer means a person whose total holding, whether as owner, tenant or mortgaged with possession or partly in one capacity and partly in another, does not exceed two-and-a half acres of wet lands or five acres of dry land. In computing the extent of land held by a person who holds wet and dry lands, two acres of dry land shall be taken as equivalent to one acre of wet land.

- b. The above concession will be withdrawn if resale of energy or unauthorized load / extension or use for other purpose is detected by the Department.*
- c. Agricultural power loads below 3 HP will be charged under Tariff Category A1. A bonafide farmer may use his motor in the Agricultural Service for allied agricultural purposes such as sugarcane crushing, thrashing etc. with the prior approval of concerned Executive Engineer (Operation & Maintenance), Electricity Department.*
- d. Power supply to Farm Houses shall be metered separately and charged under domestic tariff (A2).*

Payment of Tariff Charges by Agriculture Consumers

- a. The Tariff shall be collected in three equal installments payable in April, August and December in each year. The installments shall be payable before the 15th of the respective months.
- b. For new service, the first installment shall be proportionate to the number of whole months remaining till the month in which the first installment is due. Fraction of a month shall be reckoned as a whole month

11.2.5 Cottage Industries /Poultry Farms/ Horticulture/Pisciculture (D2)

It is applicable to bonafide cottage industries, horticultural nurseries including plant tissue culture media, bonafide poultry farms and pisciculture.

The charges are as indicated in the table below:

Table 11-6: Existing and Proposed Charges for Cottage Industry

Consumption Range	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
0-100 units per month	Rs.40/ connection/month	Rs.1.55/kWh	Rs.40/ connection/month	Rs.1.90/Kwh
101-200 units per month	Rs.45/ connection/month	Rs.2.60/kWh	Rs.45/ connection/month	Rs.2.75/Kwh
201-300 units per month	Rs.45/ connection/month	Rs.4.65/Kwh	Rs.45/ connection/month	Rs.4.65/Kwh

Consumption Range	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
Above 300 units per Month	Rs.45/ connection/month	Rs.6.05/Kwh	Rs.45/ connection/month	Rs.6.05/kWh

PED has proposed to increase the Energy charge from Rs. 1.55/kWh to Rs.1.90/kWh for first 100 units & from Rs.2.60/kWh to Rs.2.75/kWh for next 101-200 units.

Note:

1. Cottage industries

The following conditions should be satisfied in order that an industry may be classified as a bona fide cottage industry:

- It should be conducted entirely within the home; the home being deemed to be permanent residence of the proprietor.*
- The industry shall not cause any residence to constitute a factory within the meaning of the Factories Act, 1948.*
- Not more than two persons outside the immediate family of the proprietor shall be employed in the factory.*
- It should be certified by the Director of Industries that the industry for which power is used is a cottage industry.*
- The produce is not purely utilized mainly for the domestic consumption of the proprietor but should also be available for sale to the public.*

2. Poultry farms

The following conditions should be satisfied in order that the service may be classified as a bona fide poultry farm.

- The capacity of the farm shall be a minimum of 100 birds and maximum of 5,000 birds (both layer and broiler birds).*
- The application of the beneficiary seeking such concession shall be verified and recommended by the Animal Husbandry Department.*

3. Horticultural/ Pisciculture

The applications of the beneficiary seeking such concession shall be verified and recommended by the Director, Agriculture Department. For Pisciculture, applications of the beneficiary seeking such concession shall be verified and recommended by the Director, Fisheries Department.

11.2.6 Public Lighting

- The tariff for public lighting will be as follows:

Table 11-7: Existing and Proposed Charges for Public Lighting

Consumer Category	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
Public Lighting	Rs.110/pole/month	Rs.6.80/kWh	Rs.110/pole/month	Rs.6.80/kWh

- b. This tariff will also apply to public lighting in markets, bus stands, traffic signals, high mast lights on public ways, public parks, public lighting in notified industrial estates.

11.2.7 LT Industries

Applicable to low tension industrial consumers including lighting in the industrial services.

Table 11-8: Existing and Proposed Charges for LT Industrial

Consumer Category	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
LT Industrial	Rs.50.00/kW/Month	Rs.6.05/kWh	Rs.50.00/kW/Month	Rs.6.05/kWh

11.2.8 LT Water tanks:

Water Tanks including lighting in premises maintained by State Government Departments/ Undertakings and local bodies.

The charges are as indicated in the table below.

Table 11-9: Existing and Proposed Charges for LT Water Tanks

Consumer Category	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
LT Water tanks	Rs.150/ connection/month	Rs.6.90/kWh	Rs.150/ connection/month	Rs.6.90/kWh

11.3 High Tension Supply

11.3.1 High Tension – I

High Tension Industries (For Supply at 11 kV, 22 kV or 33 kV)

- The supply voltage for HT consumer's up to 5000 kVA will be 33 kV, 22 kV or 11 kV as the case may be. Applicable to industrial establishments, IT and ITES based Companies registered under Factories Act/ Companies Act with contracted maximum demand up to 5000 kVA. New High-Tension consumers who want to

avail a contract demand above 5000 kVA or existing High-Tension consumers who want to enhance their demand beyond total contract demand of 5000 kVA should avail power at 110 kV or 132 kV as the case may be.

High Tension Commercial

- o For Commercial Establishments including Laboratories, Hotels, Marriage Halls, Cinema Theatres, Private educational Institutions, Private Hospitals, shopping Malls, Telephone exchanges, broadcasting companies with contracted maximum demand up to 5000 kVA. New High-Tension consumers who want to avail a contract demand above 5000 kVA or existing High-Tension consumers who want to enhance their demand beyond total contract demand of 5000 kVA should avail power at 110 kV or 132 kV as the case may be.

11.3.2 The demand and the energy charges are as indicated in the table below:

Table 11-10: Existing and Proposed Charges for High Tension I Category

Consumer Category	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
HT I Industries	Rs.420/ kVA/ Month	Rs.5.30/kVAh	Rs.420/ kVA/ Month	Rs.5.35/kVAh
HT I Commercial	Rs.420/ kVA/ Month	Rs.5.45/kVAh	Rs.420/ kVA/ Month	Rs.5.50/kVAh

PED has proposed to hike the existing energy charges from Rs.5.30/ kVAh to Rs.5.35/ kVAh for HT Industries & from Rs.5.45/ kVAh to Rs.5.5/ kVAh for HT Commercial.

11.3.3 High Tension – II (HT Others)

- a. Applicable to State and Central Government establishments of non-industrial and non-commercial nature.
- b. The fixed/demand charges and energy charges are as indicated in the table below.

Table 11-11: Existing and Proposed Charges for High Tension II Category

Consumer Category	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
HT II (HT Others)	Rs.480/kVA/Month	Rs. 6.35/kVAh	Rs.480/kVA/month	Rs. 6.40/kVAh

PED has proposed to hike the existing energy charges from Rs.6.35/ kVAh to Rs.6.40 / kVAh for HT – II (HT Others).

11.3.4 High Tension – III

- Applicable to all types of industries supplied at 110 kV or 132 kV as the case may be
- The demand and energy charges are as indicated in the table below:

Table 11-12: Existing and Proposed Charges for High Tension III Category

Consumer Category	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
HT III	Rs.480/kVA/month	Rs. 5.10/kVAh	Rs.480/kVA/month	Rs. 5.15/kVAh

PED has proposed to hike the existing energy charges from Rs.5.10/ kVAh to Rs.5.15/ kVAh for HT – III.

Supply Voltage for all HT categories

The supply voltage for HT consumer's up to 5000kVA will be 33 kV, 22 kV or 11 kV as the case may be. New High-Tension consumers who want to avail a contract demand above 5000 KVA or existing High-Tension consumers who want to enhance their demand beyond total contract demand of 5000 kVA should avail power at 110 KV or 132 KV as the case may be.

11.4 Temporary Supply

- The tariff applicable and minimum charges for the temporary supply of energy will be as follows:

Table 11-13: Existing and Proposed Charges for Temporary Supply

Description	Existing Charges		Proposed Charges	
	Minimum charge	Tariff applicable for entire consumption (Rs. /kWh)	Minimum charge	Tariff applicable for entire consumption (Rs. /kWh)
Lights or combined installation of lights and fans, motive power, heating and others	Tariff for Temporary Connection shall be Fixed/ Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both. For multi activity pursuit, applicable Tariff for temporary connection shall be with reference to that of non-domestic category for permanent supply.		Tariff for Temporary Connection shall be Fixed/ Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both. For multi activity pursuit, applicable Tariff for temporary connection shall be with reference to that of non-domestic category for permanent supply.	

NOTE:

- The rate for Special illumination shall apply to weddings, garden-parties and other Private/Government functions when the illumination is obtained through bulbs

fastened in other surfaces of wall of buildings, on trees and poles inside the compound and in pandal etc., outside the main building.

- b) In cases where such Special illumination is done in the existing regular services the energy utilized for such illumination shall be metered separately and the consumption will be charged under Special illumination charge as levied under temporary supply.*
- c) Wherever such Special illumination is done unauthorized, a penal charge of Rs. 500 for service shall be levied in addition to the existing tariff of the installation.*
- d) Other conditions for connection of line and service connection charges, dismantling, security deposit etc. will be as per the latest Supply Code Regulations notified by JERC.*

11.5 Hoardings and Sign boards

Electricity for lighting external advertisements, external hoardings and displays at departments stores, malls , multiplexes, theatres, clubs, hotels, bus shelters, Railway Stations shall be separately metered and charged at the tariff applicable for "Advertisements and Hoardings" category, except such displays which are for the purpose of indicating / displaying the name and other details of the shop, commercial premises itself. Such use of electricity shall be covered under the prevailing tariff for such shops or commercial premises. The connection for "Advertisements and Hoardings" category would be covered under the permanent supply of connection under commercial category.

Table 11-14: Existing and Proposed Charges for Hoardings and Sign boards

Consumer Category	Existing Charges		Proposed Charges	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
Hoardings/signboards	Rs.140.00/kVA/Month	Rs.8.00/kWh	Rs.140.00/kVA/Month	Rs.8.00/kWh

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CHAPTER 12. PROPOSED SCHEDULE OF SERVICES AND CHARGES

12.1 Charges for service connections

12.1.1 The following table shows the charges for service connections

Table 12-1: Proposed Service Connection Charges

	Particulars	Category	Existing Charges (Rs.)	Proposed Charges [Rs]
(A)	New LT/ HT overhead service lines	(I) One hut one Bulb	Nil	Nil
		(ii) Other single-phase Services	250	250
		(iii) Three phase Services	500	500
		(iv) L. T C.T operated Meter services	3000	3000
		(v) H.T Services	10000	10000
(B)	New LT underground service lines	(i) Single Phase services -	500	500
		(ii) Three phase Services	1000	1000
(C)	Rating / re-rating of services	(i) Single phase Services	125	125
		(ii) Three phase Services	250	250
		(iii) L.T C.T operated Meter service	1500	1500
		(iv) H.T Service	2500	2500

Note: The above charges under (A) & (B) will be applicable for addition or alteration or reduction of connected load and enhancement or reduction of CMD or alteration of internal Electrical installations.

12.2 Testing of installation

12.2.1 Testing for servicing a new installation (or of an extension or alteration) - For the first test No Charge. Subsequent testing warranted due to absence of contractor or his representative (or) due to defects in wiring of consumer's premises or at the request of the consumer or at occasions that warrant testing of installations for the second time for reasons attributable to the consumers

Table 12-2: Proposed Testing of Installation Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Domestic lighting / Commercial lighting / Agriculture Services	200	200
(ii) Other LT Services	900	900
(iii) HT/EHT Services	7500	7500

12.3 Testing of meters & metering arrangements

12.3.1 For testing of meter at the instance of the consumer

Table 12-3: Proposed Testing of Metering Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Single phase direct meter	150	150
(ii) Three phase direct meter up to 50 A	200	200
(iii) L.T C. T coil test	800	800
(iv) H.T Tri-vector Meter (0.5 class accuracy or CT operated LT meters.	1500	1500
(v) H.T Tri-vector Meter (0.2 class accuracy)	2000	2000
(vi) H.T Metering Cubicle	3500	3500

12.4 Testing of HT/EHT consumer protective equipment

Table 12-4: Proposed Testing of HT/EHT Consumer Equipment Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
Testing charges for protective relays (Earth fault, line fault etc.)	4500	4500
Testing charges for one set of current transformers.	4500	4500
Testing charges for one set of potential transformers.	4500	4500
Testing charges for one set of EHT Current transformer	6000	6000
Testing charges for one set of EHT Potential transformer /CVT	6000	6000
Testing charges for one set of HT circuit breaker	4500	4500
Testing charges for one set of EHT circuit breaker	6000	6000
Testing charges for measurement of earth resistance.	3000	3000
Testing charges for Transformer oils	500	500

12.5 Disconnection / Re-connection charges

Table 12-5: Proposed Disconnection/Reconnection Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Disconnection of L.T. service on request	100	100
(ii) Disconnection of HT service on request	500	500
(iii) Reconnection of L.T Service (on all occasions).	100	100
(iv) Reconnection of HT Service (on all occasions).	1000	1000

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12.6 Title transfer of services

Table 12-6: Proposed Disconnection/Reconnection Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Domestic	250	250
(ii) Commercial lighting installation	500	500
(iii) All other LT installation	1000	1000
(iv) HT/EHT Services	2000	2000

12.7 Furnishing of certified copies

Table 12-7: Proposed Certified Copies Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Issue of duplicate Monthly bills for a month.	10	10
(ii) Contractor's completion-cum-test report	10	10
(iii) Ledger extract	20.00 / calendar year or part thereof.	20.00 / calendar year or part thereof.
(iv) Agreement	50	50
(v) Estimate	50	50

12.8 Charges for Replacement of Burnt Meters

Table 12-8: Proposed Disconnection/Reconnection Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
LT Single Phase meters	700	700
LT Three Phase meters	1,300	1,300
Three Phase LT meters with CTs	3,000	3,000
HT Meter 0.5s class of accuracy	6,500	6,500
HT Meter 0.2s class of accuracy	30,000	30,000
HT Metering Cubicle (CT/PT Unit)	70,000	70,000

12.9 Fuse renewal charges

Table 12-9: Proposed Fuse Renewable Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Domestic	-NIL	-NIL
(ii) Commercial	50	50
(iii) L.T Industrial	50	50
(iv) High Tension/Extra High-Tension installation	250	250

12.10 Shifting of meter board at consumer's request

Table 12-10: Proposed Shifting of meter board Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) LT single phase supply	125	125
(ii) LT Three phase supply	250	250

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CHAPTER 13. PRAYER TO THE HON'BLE COMMISSION

13.1 Prayer to the Hon'ble Commission

13.1.1 The Electricity Department, Government of Puducherry (PED) respectfully prays to the Hon'ble Commission to:

- 1) Condone the delay in filing/submission of petition due to administrative reasons.
- 2) Admit the petition seeking True Up for FY 2020-21, Annual Performance Review for FY 2021-22 and Aggregate Revenue Requirement (ARR) for the control Period from FY 2022-23 to FY FY2024-25 and Determination of Tariff for FY 2022-23
- 3) Approve the total recovery of True Up for FY 2020-21, Annual Performance Review for FY 2021-22 and Aggregate Revenue Requirement (ARR) for the control Period from FY 2022-23 to FY FY2024-25 and Determination of Tariff for FY 2022-23
- 4) Review the actual performance of FY 2020-21 and approve the Aggregate Revenue Requirement (ARR) and gap for FY 2020-21 based on the actual figures. To allow submission of audited accounts for FY 2020-21 on or before Technical Validation Session (TVS).
- 5) Review and approve the revised estimates for Aggregate Revenue Requirement (ARR) and gap for FY 2021-22.
- 6) Approve the Aggregate Revenue Requirement (ARR) for the Control Period FY 2022-23 to FY 2024-25, Revenue from Charges and the gap along with the estimated carrying cost for FY 2020-21 till FY 2022-23.
- 7) Approve the consolidated gap till FY 2022-23 as regulatory assets as proposed in the petition and allow the gap to be recovered during the control period through levy of Regulatory surcharge.
- 8) To allow recovery of balance regulatory asset approved earlier up to FY 2021-22 during the MYT control period.
- 9) To approve the proposed Tariff schedule applicable from 1st April, 2022.
- 10) Grant approval for levy of 5% Regulatory Surcharge to all the consumer categories.

- 11) Grant Approval for Wheeling charges, Additional Surcharges and Open access charges for FY 2022-23
- 12) Grant approval for the schedule of tariff, charges for services and schedule of charges along with the surcharge as made in the petition for FY 2022-23.
- 13) To allow unfilled tariff formats to be submitted in due course of time.
- 14) Grant any other relief as the Hon'ble Commission may consider appropriate. The petitioner craves leave of the Hon'ble Commission to allow further submission, addition and alteration to this petition as may be necessary from time to time.
- 15) Condone any error/omission and to give opportunity to submit the same.
- 16) 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.


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SUBMISSION to JOINT ELECTRICITY REGULATORY COMMISSION

ANNUAL REVENUE REQUIREMENT

Tariff Filing Formats

Electricity Department of Puducherry

**TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT
CONTROL PERIOD - FY 2022-23 TO FY 2024-25**

TARIFF DETERMINATION FOR FY 2022-23

Tariff Filing Formats

T. C. S. S. S. S. S.
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Puducherry**

INDEX

S. No.	Format	PARTICULARS
1	Form F2	Annual Revenue Requirement
2	Form F3	Summary of Power Purchase from Own Stations and Other Sources
3	Form F4	Summary of Power Purchase from Own Stations and Other Sources
4	Form F5	Sales, Number of Consumers, Connected Load
5	Form F6	Energy Balance
6	Form F7	Capital Investment
7	Form F8	Financing of Capitalised Works Loan Details
8	Form F9	Capital Work in Progress
9	Form F10	Capitalization
10	Form F11	Subsidy
11	Form F12	Calculation of Weighted Average Rate of Interest on Actual Loans
12	Form F13	Interest and Finance Charges
13	Form F14	Working Capital Requirements
14	Form F15	Fixed Assets & Provision for Depreciation
15	Form F16	Return on Equity
16	Form F17	Operations and Maintenance Expenses Summary
17	Form F17(A)	Normative O&M Expenses for Control Period
18	Form F18(A)	Employee Expenses
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20	Form F19	Administration & General Expenses
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24	Form F22(A)	Bad Debts
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27	Form F25	Intra State Transmission Charges
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30	Form F28	Key Characteristics of the Distribution Network
31	Form F29	Revenue Arrears and Agewise Analysis
32	Form F30	Revenue Arrears of Government/ Local Bodies and Agewise Analysis
33	Form F31	Income Tax Provisions

Note: 1. The above formats shall be filed by the Distribution Licensee for its Distribution Business (Wheeling Business and Retail Supply Business separately) consistent with the Allocation Statement mentioned in the Regulations.

2. Electronic Copy of the Petition (in Word format) and detailed calculation as per these formats (in Excel format) and any other information submitted shall also be furnished in the electronic form.

3. Formats may be suitably amended where ever required, and additional formats may be designed for any additional information to be submitted along with the Petition.

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Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Sr. No.		Particulars	Annual Revenue Requirement						Whooling Business(₹ crore)						Retail Supply Business (₹ crore)					
			Distribution Business (₹ crore)			Control Period			Current Year			Control Period			Previous Year		Current Year	Control Period		
			Actual	Estimated	Projection	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Actual	Estimated	Projection	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Actual	Estimated
A	Receipts																			
1	Revenue from Sale of Power	1433.57	1590.49	1623.92																
B	Expenditure																			
1	Cost of Power Purchase from Own Generating Stations																			
2	Cost of Power Purchase from other Generating Stations	1141.59	1249.26	1265.59	1362.48	1418.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1141.59	1249.26	1285.59	1362.48	1418.99
3	Inter State Transmission Charges	85.73	92.02	80.00	68.96	70.62	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.73	92.02	80.00	68.96	70.62
4	Intra State Transmission Charges															0.00	0.00	0.00	0.00	0.00
5	SLDC Fees & Charges	0.27														0.27				
6	O&M Expenses (Gross)																			
a)	R&M Expenses	11.29	7.98	8.81	48.01	49.27	10.17	7.18	7.93	43.21	44.34	0.88	0.80	0.88	0.80	1.13	0.80	0.88	4.80	4.93
b)	Employee Cost	114.53	114.16	115.41	116.85	117.91	45.81	45.67	46.16	46.66	47.16	68.72	68.51	69.25	69.99	68.72	68.51	69.25	69.99	70.75
c)	A&G Expenses	17.13	18.06	19.04	20.07	21.15	8.57	9.03	9.52	10.03	10.58	8.57	9.03	9.52	10.03	8.57	9.03	9.52	10.03	10.58
7	Depreciation	33.40	35.70	36.60	37.94	41.07	30.06	32.13	32.94	34.15	36.96	3.34	3.57	3.66	3.79	3.34	3.57	3.66	3.79	4.11
8	Interest and Finance Charges	16.63	16.36	11.50	10.57	12.17	14.96	14.74	10.35	9.51	10.95	1.50	1.47	1.04	0.95	1.50	1.47	1.04	0.95	1.10
9	Interest on Working Capital	3.76	5.45	5.62	7.21	7.91														
10	Interest on consumer security Deposit	6.89	9.20	9.37	9.54	9.73														
11	Prior Period Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Extraordinary Items																			
13	Bad and Doubtful Debts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Other Debts and Write-offs																			
15	Statutory Levies and Taxes, if any																			
16	Less: Expenses Capitalized																			
a)	Interest Charges Capitalized																			
b)	R&M Expenses Capitalized																			
c)	A&G Expenses Capitalized																			
d)	Employee Cost Capitalized																			
	Sub Total (a+b+c+d)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub Total Expenditure (1 to 15-16)	1431.21	1548.23	1571.93	1681.43	1748.82	109.57	108.75	106.90	143.57	150.00	1310.83	1424.66	1449.92	1521.01	1310.83	1424.66	1449.92	1521.01	1581.06
C	Return on Equity	42.43	45.35	46.50	48.20	52.17	38.18	40.82	41.85	43.38	46.95	4.24	4.54	4.65	4.82	4.24	4.54	4.65	4.82	5.22
D	Less: Non Tariff and other Income	3.21	3.38	3.54	3.72	3.91	0.32	0.34	0.35	0.37	0.39	2.89	3.04	3.19	3.35	2.89	3.04	3.19	3.35	3.52
E	Less: Any Grant/ Subventions, other subsidy provided by the Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	Annual Revenue Requirement (B+C-D-E)	1470.43	1590.20	1614.88	1725.91	1797.06	147.43	149.23	148.39	186.58	196.56	1312.18	1426.15	1451.38	1522.48	1312.18	1426.15	1451.38	1522.48	1582.76
G	Surplus/(+) / Shortfall (-) (A-F) - Before Tariff Revision	-36.86	0.29	9.04																

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Summary of Power Purchase from Own Stations and Other Sources for FY 2020-21

S. No	Source	Energy Purchased (Scheduled)	Annual Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Total Cost	Pre Unit Cost
		MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit
A	Central Sector Power Stations								
I	NTPC	1145.09						371.13	324.11
	RSTPS Stage I & II	481.97						164.69	341.69
	RSTPS Stage -III	124.96						42.74	342.02
	Talcher Stage- II	485.25						138.11	284.61
	Simhadri Stage- II	52.91						28.58	540.26
	Covid Rebate							-2.98	
II	NLC	877.09						444.34	506.60
	NLC TPS II Stage I	348.25						157.89	453.39
	NLC TPS II Stage II	77.22						47.27	612.19
	NLC TPS I (Expn)	88.64						43.94	495.69
	NLC TPS II (Expn)	70.72						37.63	532.07
	NTPL (Tuticorin)	127.90						80.34	628.14
	NNTPS	164.35						77.26	470.10
III	NPCIL	712.75						224.40	314.83
	MAPS	26.66						6.95	260.50
	KAPS Stage I	298.15						63.48	212.92
	KAPS Stage II	0.00						0.00	0.00
	Kudankulam U1	190.86						77.61	406.61
	Kudankulam U2	197.08						76.36	387.48
B	Others	53.51						60.21	1125.27
	TNEB (Pondy)								
	TNEB (Karalkal)								
	KSEB	0.00						0.01	
	Vallur Thermal Project (NTECL)	53.51						60.20	1125.14
C	UI	0						0	
	OverDrawl	0.00						0.00	
	Under Drawl	0.00						0.00	
D	Open Market	0						0	
	IEX Purchase	0.00						0.00	
	IEX Sale	0.00						0.00	
	Traders	0.00						0.00	
E	Open Access	0.00						0.00	
F	Renewable Sources	0.00						0.00	
	Solar REC							0.00	
	Non-Solar REC							0.00	
G	Within State Generations	217.92						79.29	363.87
	PPCL	217.92						79.29	363.87
H	OTHER CHARGES							61.72	
	PGCIL (PoC)							81.26	
	PGCIL (Non PoC)							4.47	
	SRLDC							0.27	
	RPO							0.00	
	SRPC							0.13	
	UI Charges							0.39	
	KPTCL							0.08	
	Power purchase expenses for prior period							0.00	
	Adjustments Bills / Debit Notes / Credit Notes for prior period							0.00	
	Less: Rebate considered by PED while making payment							0.00	
	Less: Interest Cost							24.88	
I	Power Purchase Cost (Sub Total)	3006.36						1241.09	
J	Additional Income							13.50	
	URS Income							0.07	
	UI/DSM Charges							11.81	
	RARS Charges							1.44	
	Sale of Trading Materials							0.18	
K	Net Power Purchase Total	3006.36						1227.58	408.33

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Summary of Power Purchase from Own Stations and Other Sources for FY 2021-22

S. No	Source	Power Purchase Cost FY 2021-22 (H1) (Actual)					Per Unit Cost
		Energy Purchased	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Total Cost	
		MU	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit
A	Central Sector Power Stations						
I	NTPC	623.54	65.34	142.37	-1.36	206.35	330.92
	ISPPS Stage-I & II	254.45	23.82	65.64	-1.09	88.36	347.27
	ISPPS Stage-III	91.77	6.69	23.32	-0.06	29.96	326.41
	Talcher Stage-II	250.28	27.25	45.68	0.00	72.93	291.37
	Simhadri Stage-II	27.04	7.58	7.73	-0.20	15.10	558.54
II	NLC	567.36	72.95	140.75	3.99	217.69	363.69
	NLC TPS II Stage I	213.47	17.77	56.39	3.39	77.56	363.31
	NLC TPS II Stage II	93.40	6.96	24.68	0.23	34.37	368.02
	NLC TPS I (Exon)	53.08	5.10	12.80	0.03	17.93	337.76
	NLC TPS II (Exon)	36.88	9.20	9.41	-0.04	18.57	503.63
	NNTPS	170.53	31.92	37.47	-0.13	69.26	406.16
III	NPCIL	364.12	0.00	133.50	5.72	139.22	382.34
	MAPS	4.03	0.00	0.98	0.04	1.02	252.16
	KAPS	139.76	0.00	48.71	-0.51	48.20	344.84
	KKNPP	220.32	0.00	83.81	6.20	90.00	408.51
B	Others	93.68	31.53	29.35	1.99	62.87	671.15
	NTPC (Tulicorin)	54.65	16.25	16.59	1.91	34.75	
	Valur Thermal Project (NTECL)	99.03	15.28	12.76	0.09	28.13	
	TNEB (Karaikal)						
	KSEB						
C	UI	0.00	0.00		0.00	0.00	
	OverDraw	0.00				0.00	
	Under Draw	0.00				0.00	
D	Open Market	0.00	0.00	0.00	0.00	0.00	
	IES Purchase	0.00				0.00	
	IES Sale	0.00				0.00	
	Traders	0.00				0.00	
E	Open Access	0.00	0.00	0.00	0.00	0.00	
F	Renewable Sources	0.00	0.00	0.00	0.00	0.00	
	Solar REC						
	Non-Solar REC						
G	Within State Genera	119.89	17.32	23.76	7.42	48.44	404.05
	PPCL	119.89	17.32	23.70	7.42	48.44	404.05
H	OTHER CHARGES						
	PGCIL(POC)					74.04	74.04
	PGCIL(POC BILL)					8.62	8.62
	PGCIL(POC BILL)					65.43	65.43
I	Total Power Purchase	1768.59	187.13	469.67	51.81	748.61	423.28

S. No	Source	Power Purchase Cost FY 2021-22 (H2) (Estimated)					Per Unit Cost
		Energy Purchased	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Total Cost	
		MU	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit
A	Central Sector Power Stations						
I	NTPC	612.77	64.21	139.91	0.00	204.12	333.10
	ISPPS Stage-I & II	250.06	23.41	64.50	0.00	87.91	351.57
	ISPPS Stage-III	90.19	6.58	22.92	0.00	29.50	327.07
	Talcher Stage-II	245.96	26.78	44.89	0.00	71.67	291.58
	Simhadri Stage-II	26.57	7.45	7.59	0.00	15.04	566.00
II	NLC	504.47	62.00	126.54	0.00	188.54	373.73
	NLC TPS II Stage I	208.18	17.33	55.00	0.00	72.33	347.41
	NLC TPS II Stage II	91.09	8.74	24.08	0.00	32.81	360.22
	NLC TPS I (Exon)	51.77	4.97	12.48	0.00	17.45	337.18
	NLC TPS II (Exon)	35.96	8.97	9.18	0.00	18.15	504.59
	NNTPS	117.47	21.99	25.81	0.00	47.80	406.90
III	NPCIL	341.43	0.00	124.29	0.00	124.29	364.02
	MAPS	4.07	0.00	0.99	0.00	0.99	242.71
	KAPS	157.82	0.00	55.00	0.00	55.00	348.52
	KKNPP	179.54	0.00	68.30	0.00	68.30	380.39
B	Others	97.55	32.71	30.54	0.00	63.25	648.40
	NTPC	58.13	17.28	17.65	0.00	34.93	600.82
	Valur Thermal Project (NTECL)	39.42	15.44	12.89	0.00	28.32	718.56
	TNEB (Karaikal)						
	KSEB						
C	UI	0.00	0.00	0.00	0.00	0.00	
	OverDraw	0.00				0.00	
	Under Draw	0.00				0.00	
D	Open Market	-211.80	0.00	-46.60	0.00	-46.60	
	IES Purchase	0.00				0.00	
	IES Sale	211.80		46.60		46.60	
	Traders	0.00				0.00	
E	Open Access	0.00	0.00	0.00	0.00	0.00	
F	Renewable Sources	0.00	0.00	0.00	0.00	0.00	
	Solar REC						
	Non-Solar REC						
G	Within State Genera	120.11	17.35	23.75	0.00	41.10	342.16
	PPCL	120.11	17.35	23.75	0.00	41.10	342.16
H	OTHER CHARGES						
	PGCIL(POC)					17.97	17.97
	PGCIL(POC BILL)					17.97	17.97
	PGCIL(POC BILL)					17.97	17.97
I	Total Power Purchase	1464.53	176.27	398.42	17.97	592.66	404.68

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Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Summary of Power Purchase from Own Stations and Other Sources for FY 2022-23

S. No	Source	Energy Sent out (Scheduled)		External Losses(%)	Energy Received by the Licensee	Annual Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Total Cost	Pre Unit Cost
		MU	%	Interstate	MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit
A	Central Sector Power Stations											
	I NTPC	1159.11						126.97	279.62	0.00	406.59	350.77
	RSTPS Stage I & II	521.29						49.78	139.85	0.00	189.63	363.76
	RSTPS Stage -III	152.47						11.34	40.30	0.00	51.64	338.70
	Talcher Stage- II	416.96						46.30	79.15	0.00	125.45	300.86
	Simhadri Stage- II	68.38						19.55	20.32	0.00	39.87	583.03
II	NLC	1044.89						132.74	270.67	0.00	403.41	386.07
	NLC TPS II Stage I	424.57						36.05	116.64	0.00	152.69	359.64
	NLC TPS II Stage II	168.09						16.44	46.21	0.00	62.65	372.71
	NLC TPS I (Expn)	105.31						10.32	26.41	0.00	36.73	348.74
	NLC TPS II (Expn)	58.07						14.78	15.41	0.00	30.18	519.79
	NNTPS	288.85						55.15	66.00	0.00	121.15	419.43
III	NPCL	583.49						0.00	218.93	0.00	218.93	375.21
	MAPS	26.80						0.00	6.76	0.00	6.76	252.42
	KAPS Stage I	127.95						0.00	46.38	0.00	46.38	362.46
	KAPS Stage II	115.36						0.00	41.81	0.00	41.81	362.46
	Kudankulam U1	164.05						0.00	64.90	0.00	64.90	395.60
	Kudankulam U2	149.34						0.00	59.08	0.00	59.08	395.60
B	Others	225.16						78.45	73.67	0.00	152.12	675.61
	TNEB (Pondy)											
	TNEB (Keralikal)											
	KSEB											
	Vallur Thermal Project (NTECL)	105.89						42.29	36.01	0.00	78.30	739.47
	NTPA (Tuticorin)	119.27						36.16	37.65	0.00	73.82	618.91
C	UI	0.00									0.00	
	OverDraw											
	Under Drawl											
	Open Market	406.93						0.00	-89.52	0.00	-89.52	
	IEX Purchase	0.00										
	IEX Sale	406.93							89.52	0.00	89.52	
D	Traders	0.00										
	Open Access	0.00									0.00	
	Renewable Sources	402.84										
	Solar	118.26										
	SECI Solar Tranche II -58 MW	39.42							9.89		9.89	251.00
	NTPC Solar	78.84							21.05		21.05	267.00
E	Non-Solar	284.58										
	SECI Wind Tranche V 100 MW	118.26							33.59		33.59	288.00
	SECI Wind Tranche VIII 140.64 MW	166.32							48.40		48.40	291.00
	Solar REC											
	Non-Solar REC	229.90										
	Within State Generations	229.90										
F	PPCL											
	OTHER CHARGES											
	PGCIL Transmission Charges, Wheeling & Other Charges										80.00	
	Total Power Purchase Cost	3236.46						372.04	913.55	0.00	1365.56	421.68

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TRUE-UP FOR FY 2020-21. ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Summary of Power Purchase from Own Stations and Other Sources for FY 2023-24

Summary of ITC Credit Generated from Own Stations and Other Sources													
S. No	Source	Energy Sent out (Scheduled)	%	External Losses(%)		Energy Received by the Licensee	Annual Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Total Cost	Pre Unit Cost
		MU		Intrastate	Interstate								
A	Central Sector Power Stations												
	NTPC	1159.11							129.50	290.80	0.00	420.31	362.61
	RSTPS Stage I & II	521.29							50.77	145.44	0.00	196.22	376.40
	RSTPS Stage -III	152.47							11.57	41.91	0.00	53.48	350.76
	Talcher Stage- II	416.96							47.23	82.31	0.00	129.54	310.67
	Simhadri Stage- II	68.36							19.94	21.14	0.00	41.07	600.64
B	NLC	1044.89							135.39	281.49	0.00	416.89	390.98
	NLC TPS II Stage I	424.57							36.77	121.31	0.00	158.08	372.33
	NLC TPS II Stage II	168.09							16.77	48.05	0.00	64.83	385.66
	NLC TPS I (Expn)	105.31							10.52	27.47	0.00	37.99	360.73
	NLC TPS II (Expn)	58.07							15.07	16.03	0.00	31.10	535.49
	NNTPS	288.95							56.26	68.64	0.00	124.90	432.39
C	NPCLIL	563.49							0.00	227.69	0.00	227.69	390.22
	MAPS	26.80							0.00	7.03	0.00	7.03	262.52
	KAPS Stage I	127.95							0.00	48.23	0.00	48.23	376.96
	KAPS Stage II	115.36							0.00	43.49	0.00	43.49	376.96
	Kudankulam U1	164.05							0.00	67.49	0.00	67.49	411.43
	Kudankulam U2	149.34							0.00	61.44	0.00	61.44	411.43
D	Others	225.16							80.02	76.61	0.00	156.64	695.66
	TNEB (Pondy)	0.00											
	TNEB (Karaikal)	0.00											
	KSEB	0.00											
	Vallur Thermal Project (NTECL)	105.89							43.14	37.45	0.00	80.59	761.06
	NTPL (Tuticorin)	119.27							36.88	39.16	0.00	76.05	637.60
E	UI	0.00										0.00	
	OverDrawl												
	Under Drawl												
	Open Market	-766.41							0.00	-168.61	0.00	-168.61	
	IEX Purchase	0.00											
	IEX Sale	768.41								168.61	0.00	168.61	
F	Traders	0.00											
	Open Access	0.00										0.00	
	Renewable Sources	805.68											
	Solar	236.52								225.86	0.00	225.86	
	SECI Solar Tranche II -50 MW	78.84								19.79		19.79	251.00
	KTPC Solar	157.68								42.10		42.10	267.00
G	Non-Solar	569.16											
	SECI Wind Tranche V 100 MW	236.52								67.17		67.17	284.00
	SECI Wind Tranche VIII 140.64 MW	332.64								96.80		96.80	291.00
	Solar REC												311.00
	Non-Solar REC												
	Within State Generations	229.90							34.55	49.16	0.00	83.71	364.13
H	PPCL	229.90							34.55	49.16	0.00	83.71	364.13
	OTHER CHARGES											68.96	
	PPCLIL Transmission Charges, Wheeling & Other Charges											68.96	
	Total Power Purchase Cost	3281.81							379.48	983.00	0.00	1431.44	436.17

251.00	364.13
267.00	364.13
284.00	
291.00	
364.13	

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Summary of Power Purchase from Own Stations and Other Sources for FY 2024-25

S. No	Source	Energy Sent out (Scheduled)		External Losses(%)		Energy Received by the Licensee	Annual Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Total Cost	Pre Unit Cost
		MU	%	Intrastate	Interstate	MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit
A	Central Sector Power Stations												
	NTPC	1159.11							132.09	302.43	0.00	434.53	374.88
	RSTPS Stage I & II	521.29							51.79	151.26	0.00	203.05	389.51
	RSTPS Stage -III	152.47							11.80	43.59	0.00	55.39	363.27
	Talcher Stage- II	416.96							48.17	85.60	0.00	133.78	320.83
	Simhadri Stage- II	68.38							20.33	21.98	0.00	42.32	618.83
B	NLC	1044.89							138.10	292.75	0.00	430.86	412.34
	NLC TPS II Stage I	424.57							37.51	126.16	0.00	163.67	385.49
	NLC TPS II Stage II	168.09							17.11	49.98	0.00	67.08	399.09
	NLC TPS I (Expt)	105.31							10.73	28.56	0.00	39.30	373.16
	NLC TPS II (Expt)	58.07							15.37	16.67	0.00	32.04	551.72
	NNTPS	288.85							57.38	71.38	0.00	128.77	445.79
C	NPCIL	583.49							0.00	236.79	0.00	236.79	405.82
	KAPS	26.80							0.00	7.32	0.00	7.32	273.02
	KAPS Stage I	127.95							0.00	50.16	0.00	50.16	392.04
	KAPS Stage II	115.36							0.00	45.23	0.00	45.23	392.04
	Kudankulam U1	164.05							0.00	70.19	0.00	70.19	427.88
	Kudankulam U2	149.34							0.00	63.90	0.00	63.90	427.88
D	Others	225.16							81.62	79.68	0.00	161.30	716.38
	TNEB (Pondy)												
	TNEB (Karaikal)												
	KSEB								44.00	38.95	0.00	82.95	783.35
	Vallur Thermal Project (NTECL)	105.89							37.62	40.73	0.00	78.35	656.92
	NTPCL (Tuticorin)	119.27											
E	UT	0.00										0.00	
	OverDrawl												
	Under Drawl												
	Open Market	-712.36							0.00	-156.72	0.00	-156.72	
	IEEX Purchase	0.00								156.72	0.00	156.72	
	IEEX Sale	712.36											
F	Traders	0.00											
	Open Access	0.00										0.00	
	Renewable Sources	805.68											
	Solar	236.52								225.86	0.00	225.86	
	SECI Solar Tranche II -50 MW	78.84								19.79		19.79	251.00
G	NTPC Solar	157.68								42.10		42.10	267.00
	Non-Solar	569.16											
	SECI Wind Tranche V 100 MW	236.52								67.17		67.17	284.00
	SECI Wind Tranche VIII 140.64 MW	332.64								96.80		96.80	291.00
	Solar REC												
	Non-Solar REC												
	Within State Generations	229.90							35.25	51.12	0.00	86.37	375.69
H	PPCL	229.90							35.25	51.12	0.00	86.37	375.69
	OTHER CHARGES											70.62	
	PPCIL Transmission Charges, Wheeling & Other Charges											70.62	
I	Total Power Purchase Cost	3335.86							387.07	1031.92	0.00	1489.61	446.54

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25
Summary of Station Wise details of Power Purchase from Own and Other Sources

S. No	Source	Months in the Financial Year 2020-21																							
		April		May		June		July		August		September		October		November		December		January		February		March	
		MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)	MU	(Rs. Cr)
A	Central Sector Power Stations																								
	I																								
	NTPC																								
	RSTPS Stage I & II	28.43	9.00	50.06	16.35	45.95	14.76	55.46	16.20	51.18	16.30	33.65	11.45	37.93	14.94	31.36	12.87	35.19	12.82	31.62	11.96	32.93	12.68	48.23	15.34
	RSTPS Stage-III	0.00	-0.54	0.00	0.00	9.41	3.08	14.37	4.78	14.55	4.71	13.45	4.39	11.53	4.14	10.28	4.22	10.71	4.15	12.52	3.98	12.76	4.84	15.38	4.98
	Talcher Stage- II	32.68	8.43	46.69	12.13	43.22	11.42	48.32	13.61	46.98	12.12	38.60	10.26	43.47	13.23	29.90	10.61	36.88	11.42	35.86	11.00	33.48	11.15	49.17	12.72
	Sinhadhri Stage- II	3.66	-5.53	6.00	3.36	4.11	2.88	8.24	4.95	7.07	3.91	4.33	2.85	0.99	2.03	1.75	2.37	3.50	2.80	4.55	3.03	3.47	3.03	5.22	2.91
II	NLC																								
	NLC TPS II Stage I	12.50	14.87	41.27	24.03	37.57	20.29	17.82	8.17	23.08	7.97	25.97	11.44	18.46	7.57	35.29	13.83	31.98	12.85	36.70	14.58	32.57	10.64	35.05	11.66
	NLC TPS II Stage II	4.21	-22.01	-	-	13.11	5.56	0.16	4.75	-	5.06	4.76	6.83	5.10	7.60	9.58	8.69	7.49	8.44	9.35	8.63	10.24	6.70	13.23	7.00
	NLC TPS I (Expon)	4.06	2.58	8.74	4.01	8.80	3.72	10.50	4.07	10.62	3.65	5.71	2.50	7.16	2.83	4.88	1.92	7.41	2.77	7.03	2.86	8.21	10.93	5.51	2.10
	NLC TPS II (Expon)	3.91	2.66	5.26	3.82	6.72	4.10	2.24	1.34	7.17	2.11	7.74	4.09	7.65	4.09	4.97	2.79	5.92	3.11	6.25	3.31	6.96	3.34	5.94	2.87
	NTPL (Tuticorin)	7.19	5.85	8.00	6.11	9.55	6.09	15.70	8.76	15.75	7.81	15.75	8.26	15.62	8.31	10.38	6.60	7.81	6.23	9.22	5.97	6.91	5.41	6.03	4.95
III	NPCIL																								
	MAPS	2.51	0.66	2.45	0.63	2.53	0.66	2.44	0.64	2.77	0.72	2.63	0.70	2.12	0.55	0.84	0.24	2.56	0.66	1.98	0.54	1.69	0.35	2.14	0.61
	KAPS Stage I	19.31	6.53	23.20	8.05	28.70	9.80	29.31	9.99	30.08	-28.97	28.93	10.70	26.31	8.89	24.61	8.52	17.78	6.07	22.11	7.59	24.32	7.18	23.48	9.15
	KAPS Stage II																								
	Kudankulam U1	13.20	5.42	9.20	3.79	-	-0.04	-	-	4.16	1.26	23.38	9.58	25.17	10.29	18.95	7.76	24.31	9.94	26.02	10.63	23.57	8.38	22.89	10.60
	Kudankulam U2	20.63	-2.30	17.65	7.25	22.96	9.40	15.36	6.35	20.63	11.05	22.62	9.25	23.51	9.63	22.92	9.39	19.32	7.94	11.47	4.80	-	-0.04	-	3.66
B	Others																								
	Vallur Thermal Project (NTECL)	1.77	4.56	3.33	4.53	1.51	2.59	5.07	5.27	7.09	5.79	1.72	3.96	6.84	6.70	4.97	4.24	4.00	5.45	5.22	5.07	5.39	6.95	6.59	5.09
	NNTPS	7.56	7.62	15.71	9.64	11.28	7.65	17.01	8.97	6.43	4.30	14.48	7.08	15.02	8.00	12.93	7.48	8.88	5.99	10.13	5.92	17.34	8.21	27.58	-3.59
C	Within State Generations																								
	PPCL	38.44	5.45	19.91	8.22	19.35	8.08	18.18	7.76	17.58	7.23	17.81	7.49	20.54	7.35	18.51	5.97	19.84	6.34	16.23	5.21	11.13	3.73	20.39	6.46
	Total Power Purchase	180.07	43.24	257.47	111.91	264.79	110.04	260.18	105.62	265.14	65.03	261.55	110.83	267.40	116.13	242.11	107.51	243.59	106.99	246.26	105.08	230.97	103.48	286.82	96.50

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Sales, Consumers & Connected Load

A) Sales

(MUS)

S.No.	Category	Previous Year			Current Year Estimated	Control Period						
		Actual	Actual	Actual		Projection						
						FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
1(a)	Domestic & Cottage											
	0 - 100 Units	292.80	353.11	357.97	370.99	380.26	389.77	399.51				
	101 - 200 Units	178.22	195.03	195.60	204.90	210.03	215.28	220.66				
	201 - 300 Units	95.68	102.89	114.00	108.10	110.80	113.57	116.41				
	>300 Units	144.86	116.82	138.60	122.73	125.80	128.95	132.17				
	Domestic & Cottage Total	711.56	767.85	806.17	806.72	826.89	847.56	868.75				
1(b)	OHOB/ Line Line Services	10.24	3.50	3.50	3.50	3.50	3.50	3.50				
2	Commercial											
	0 - 100 Units	56.18	39.37	40.74	39.82	40.82	41.84	42.88				
	101 - 250 Units	47.72	45.61	46.16	46.13	47.29	48.47	49.68				
	> 250 Units	108.95	117.58	61.60	118.93	121.90	124.95	128.07				
	Commercial Total	212.85	202.56	148.50	204.88	210.00	215.25	220.63				
3	Agriculture											
a	Small farmers	8.05	8.53	8.49	8.53	8.57	8.62	8.66				
b	Other farmers	51.81	52.65	51.50	53.18	52.60	53.44	53.71				
	Agriculture Total	59.86	61.18	59.99	61.71	61.17	62.06	62.37				
4	Public lighting	27.58	24.59	21.73	19.00	17.50	17.50	17.50				
5(a)	LT Industrial	124.59	119.29	106.91	124.11	126.59	129.12	131.71				
5(b)	Water tank	35.00	38.77	35.05	40.28	41.06	41.85	42.66				
	LT Industrial + water Tank Total	159.59	158.06	141.95	164.39	167.65	170.97	174.36				
5(c)	Temporary supply - LT&HT	8.12	4.77	4.43	4.96	5.06	5.16	5.27				
6	HT 1 (a) For contract demand up to 5000 kVA/Industrial	889.08	897.08	806.29	919.99	931.66	943.48	955.46				
6(b)	HT 1 (b) For contract demand up to 5000 kVA/Commercial	83.05	83.47	58.14	85.61	86.69	87.79	88.91				
	HT-1 Total	972.13	980.55	864.43	1005.59	1018.35	1031.28	1044.36				
7	HT 2 - Government & non-Industrial & non-Commercial	66.06	69.07	53.49	74.10	76.75	79.50	82.35				
	HT-2 Total	66.06	69.07	53.49	74.10	76.75	79.50	82.35				
8	HT 3 - EHT Industries	416.55	412.14	413.94	428.79	437.36	446.11	455.03				
	HT-3 Total	416.55	412.14	413.94	428.79	437.36	446.11	455.03				
9	Electric Vehicle Charging Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
10	Hoarding/ Signboards	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
11	Export to Other Region			3.92								
	Grand Total	2644.54	2684.27	2522.06	2773.64	2824.25	2878.90	2934.13				

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Sales, Consumers & Connected Load

B) Number of Consumers								
S.No.	Category	Previous Year			Current Year Estimated	Control Period		
		Actual	Actual	Actual		Projection		
		FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
1(a)	Domestic & Cottage							
	0 - 100 Units	131878	136669	141038	145269	149627	154116	158740
	101 - 200 Units	98291	101860	102416	105488	108653	111913	115270
	201 - 300 Units	52503	54410	55794	57468	59192	60968	62797
	>300 Units	53372	55303	59380	61161	62996	64886	66833
	Domestic & Cottage Total	336044	348242	358628	369387	380468	391882	403639
1(b)	OHOB/ Line Line Services	35537	8808	8248	8248	8248	8248	8248
2	Commercial							
	0 - 100 Units	22424	23077	22868	23291	23722	24161	24608
	101 - 250 Units	9137	9420	9249	9420	9594	9772	9953
	> 250 Units	23584	24263	23933	24376	24827	25286	25754
	Commercial Total	55145	56760	56050	57087	58143	59219	60315
3	Agriculture							
a	Small farmers	960	960	960	960	960	960	960
b	Other farmers	6013	6069	6069	6093	6118	6142	6167
	Agriculture Total	6973	7029	7029	7053	7078	7102	7127
4	Public lighting	50666	50936	51153	51381	52923	54510	56146
5(a)	LT Industrial	6586	6646	3584	3602	3620	3638	3656
5(b)	Water tank	139	140	802	806	810	814	818
	LT Industrial + water Tank Total	6725	6786	4386	4408	4430	4452	4474
5(c)	Temporary supply - LT&HT	0	0	0	0	0	0	0
6	HT 1 (a) For contract demand up to 5000 kVA/Industrial	323	330	343	346	350	353	357
6(b)	HT 1 (b) For contract demand up to 5000 kVA/Commercial	101	100	112	113	114	115	117
	HT-1 Total	424	430	455	460	464	469	473
7	HT 2 - Government & non-Industrial & non-Commercial	64	68	63	65	67	69	71
	HT-2 Total	64	68	63	65	67	69	71
8	HT 3 - EHT Industries	7	7	8	8	8	9	9
	HT-3 Total	7	7	8	8	8	9	9
9	Electric Vehicle Charging Station	0	0	0	0	0	0	0
10	Hoarding/ Signboards	0	0	0	0	0	0	0
	Grand Total	491585	479065	486020	498097	511829	525960	540501

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Sales, Consumers & Connected Load

Form F5

C) Connected Load and Contracted Demand (KW)									
S.No.	Category	Previous Year			Current Year		Control Period		
		Actual	Actual	Actual	Estimated	Projection	FY 2022-23	FY 2023-24	FY 2024-25
1(b)	Domestic & Cottage Total	554648	580218	606734	634647	663845	694386	726332	726332
	OHOB/ Line Line Services	2843	2843	2843	2843	2843	2843	2843	2843
	Commercial Total	128476	138600	146001	150381	154893	159539	164326	164326
	Agriculture Total	44654	44654	60000	60300	60602	60905	61209	61209
4	Public lighting	6180	6242	6296	6357	6419	6481	6544	6544
	LT Industrial + water Tank Total	127714	130242	131883	134256	136671	139130	141633	141633
5(c)	Temporary supply - LT&HT								
	HT-1 Total	355345	366965	229166	233749	238424	243193	248057	248057
	HT-2 Total	33554	36910	23180	23412	23646	23882	24121	24121
	HT-3 Total	126946	30185	36694	40363	40363	40363	40363	40363
9	Electric Vehicle Charging Station	0	0	0					
10	Hoarding/ Signboards	0	0	0					
	Grand Total	1380360	1336859	1242798	1286309	1327706	1370723	1415428	1415428

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**TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25**

Energy Balance (Availability Vs Requirement)

Sr. No.	Particulars	Previous Year (Actuals)	Current Year (Estimated)	Control Period		
		FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
A)	ENERGY REQUIREMENT					
1	Energy sales to metered category within the State	2,518.14	2,773.64	2,824.2	2,878.90	2,934.13
2	Energy exported to TANGEDCO	3.92	-	-	-	-
3	Total sales within the State	2,522.06	2,773.64	2,824.25	2,878.90	2,934.13
4	T&D Losses (%)	11.99%	11.50%	11.00%	10.75%	10.50%
5	T&D Losses (MU)	343.44	360.42	349.06	346.76	344.23
6	Energy required at Discom Periphery	2,864.96	3,134.06	3,173.31	3,225.66	3,278.36
B)	ENERGY AVAILABILITY					
1	Net Power Purchase (ex Bus)	2,788.44	2,993.11	2,605.72	2,246.24	2300.29
2	Own Generation (PPCL)	217.92	240.00	229.90	229.90	229.90
3	Power Purchase from Renewable sources	-	-	402.84	805.68	805.68
4	Power purchase from Common Pool / UI-overdrawal / Traders / Exchange / Others	33.12	8.46	-	-	0.00
5	UI Underdrawal	102.58	32.68	-	-	0.00
6	Open Access Power Purchase at periphery	-	-	-	-	-
7	Net Power Purchased (1+2+3+4-5+6)	2,936.90	3,208.89	3,238.46	3,281.81	3,335.86
8	Transmission Losses	71.93	74.83	65.14	56.16	57.51
9	Transmission Losses (%)	2.45%	2.50%	2.50%	2.50%	2.50%
10	Total Energy Availability (7-8)	2,864.96	3,134.06	3,173.31	3,225.66	3,278.36
11	Deficit/(Surplus)	-	-	-	-	-

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Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Year-wise Capital Expenditure

Details of Capital Expenditure-scheme-wise				Source of Financing for Capex At the beginning of Year				Source of Financing for Capex During the Year			
Name of scheme/ Project	Nature of Project (Select appropriate Code)	Year of Start	Cumulative expenditure till beginning of the Year	Capex during the Year	Total Capex till end of the Year	Equity component of Capex in Year			Equity component of Capex In Year		
						Internal Accrual (from free reserves and surplus)	Equity Infused	Capital Subsidies/ grants component (as applicable)	Consumer Contribution component (as applicable)	Loan Amount	Internal Accrual (from free reserves and surplus)
Revamped Distribution Scheme	Transmission Scheme	FY 2022-23	0	50.00	50.00	0	0	0	0	0	0
Revamped Distribution Scheme	Distribution Scheme	FY 2022-23	0	35.00	35.00	0	0	0	0	0	0
Revamped Distribution Scheme	Transmission Scheme	FY 2023-24	50.00	90.00	140.00	0	0	0	0	0	0
Revamped Distribution Scheme	Distribution Scheme	FY 2023-24	35.00	70.00	105.00	0	0	0	0	0	0
Revamped Distribution Scheme	Transmission Scheme	FY 2024-25	140.00	75.00	215.00	0	0	0	0	0	0
Revamped Distribution Scheme	Distribution Scheme	FY 2024-25	105.00	75.00	180.00	0	0	0	0	0	0
								45.00	0	23.00	
								90.00	0	45.00	
								60.00	0	60.00	

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**TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
Commissioning / Capitalisation Plan - Master**

(Information to be provided for all heads either spilling into the period starting from previous year to the end year)

Name of Scheme	Nature of Project (Select appropriate code from below)	Year of Start	Capex approved by Commission				Capitalisation Up to Previous Year (FY 2020-21)				Capitalisation Incurred in Current Year (FY 2021-22)			
			Debt	Equity	Grants	Total	Debt	Equity	Grants	Total	Debt	Equity	Grants	Total
Establishment of New Substations	Transmission Scheme					71.74								
Augmentation of System Capacity	Transmission Scheme					25.45								
Renovation and Modernization Works of Existing Capacity	Transmission Scheme					36.59								
Replacement of Capacitor Banks	Transmission Scheme					4.00								
Erection/ establishment/ upgradation of 230kV and 110kV Substations	Transmission Scheme					212.86								
SubTotal Transmission Scheme						350.64								
R-APDRP Part-A Works	Distribution Scheme					0.94								
R-APDRP Part-B Works	Distribution Scheme					40.1								
System Strengthening Schemes	Distribution Scheme					198.5								
Normal Development Schemes	Distribution Scheme					45								
Reliable communication	Distribution Scheme					5.6								
IPDS	Distribution Scheme					12.92								
DDUGJY	Distribution Scheme					12.21								
PSDF	Distribution Scheme					10.56								
SubTotal Distribution Scheme						325.83								
Old Scheme Total			562.9	69.86	43.8	676.47				245.46	24.5	10.5	0.00	35
New Scheme														
Revamped Scheme	Transmission Scheme (Proposed)	FY 2022-23				215.00								
Revamped Scheme	Distribution Scheme (Proposed)	FY 2022-23				180.00								
New Scheme Total			128.00	72.00	195.00	395.00								

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(in of control period)

Name of Scheme	Nature of Project (Select appropriate code from below)	Year of Start	FY 2022-23				FY 2023-24				FY 2024-25				Beyond
			Debt	Equity	Grants	Total	Debt	Equity	Grants	Total	Debt	Equity	Grants	Total	
Establishment of New Substations	Transmission Scheme														
Augmentation of System Capacity	Transmission Scheme														
Renovation and Modernization Works of Existing Capacity	Transmission Scheme														
Replacement of Capacitor Banks	Transmission Scheme														
Erection/ establishment/ upgradation of 230KV and 110KV Substations	Transmission Scheme														
SubTotal Transmission Scheme															
R-APDRP Part-A Works	Distribution Scheme														
R-APDRP Part-B Works	Distribution Scheme														
System Strengthening Schemes	Distribution Scheme														
Normal Development Schemes	Distribution Scheme														
Reliable communication	Distribution Scheme														
IPDS	Distribution Scheme														
DDUGIY	Distribution Scheme														
PSDF	Distribution Scheme														
SubTotal Distribution Scheme															
Old Scheme Total															
New Scheme															
Revamped Scheme	Transmission Scheme (Proposed)	FY 2022-23	5.81	2.49	9.34	17.65	23.26	9.97	42.71	75.94	38.85	16.65	37.00	92.50	
Revamped Scheme	Distribution Scheme (Proposed)	FY 2022-23	4.07	1.74	6.54	12.35	18.09	7.75	33.22	59.06	38.85	16.65	37.00	92.50	
New Scheme Total			9.88	4.24	15.88	30.00	41.34	17.72	75.94	135.00	77.70	33.30	74.00	185.00	

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD - FY 2022-23 TO FY 2024-25

Calculation of Weighted Average Rate of Interest on Actual Loans

Particulars	Type of Loan (whether "PS" or "WC")	Previous Year Actuals										Current Year Estimated				
		FY 2020-21										FY 2021-22				
		Gross Loan - Opening (₹ crore)	Add: Drawls during the year (₹ crore)	Less: Repayment of Loan during the year (₹ crore)	Closing Balance of loan (₹ crore)	Average loan (₹ crore)	Rate of Interest on loan (%)	Interest on loan (₹ crore)	Gross Loan - Opening (₹ crore)	Add: Drawls during the year (₹ crore)	Less: Repayment of Loan during the year (₹ crore)	Closing Balance of loan (₹ crore)	Average loan (₹ crore)	Rate of Interest on loan (%)	Interest on loan (₹ crore)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Loan from PFC for Part A of R-APDRP	PS	24.48	0.00		24.48	24.48	11.50%	2.82	24.48			24.48	24.48	11.50%	2.82	
Loan from PFC for Part B of R-APDRP	PS	42.49	0.70		43.19	42.84	10.40%	4.46	43.19			43.19	43.19	10.40%	4.49	
Loan from REC for DDUGJY	PS	4.13	2.52		6.66	5.39	10.40%	0.56	6.66			6.66	6.66	10.40%	0.69	
Loan for PSDF	PS	0.95	0.00		0.95	0.95	10.40%	0.10	0.95			0.95	0.95	10.40%	0.10	
Loan from PFC for IPDS	PS	3.92	7.80		11.72	7.82	10.40%	0.81	11.72			11.72	11.72	10.40%	1.22	
Total Loan		75.98	11.02	0.00	87.00	81.49		8.74	87.00	0.00	0.00	87.00	87.00		9.32	
Weighted average Rate of Interest on Loans (in %) (Separately for "PS" and "WC")		10.73%										10.71%				

Notes:

- "PS" refers to Project Specific Loan. "WC" refers to Working Capital Loan.
- Calculation should only be done for principal not overdue. Over-due principal, penal interest etc. shall not be considered.
- In place of Loan 1, Loan 2 etc. mention the name of funding agency.

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Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD - FY 2022-23 TO FY 2024-25

Calculation of Weighted Average Rate of Interest on Actual Loans

Particulars	Control period Projections													
	FY 2022-23							FY 2023-24						
	Gross Loan - Opening (₹ crore)	Add: Drawls during the year (₹ crore)	Less: Repaymen t of Loan during the year (₹ crore)	Closing Balance of loan (₹ crore)	Average loan (₹ crore)	Rate of Interest on loan (%)	Interest on loan (₹ crore)	Gross Loan - Opening (₹ crore)	Add: Drawls during the year (₹ crore)	Less: Repayment of Loan during the year (₹ crore)	Closing Balance of loan (₹ crore)	Average loan (₹ crore)	Rate of Interest on loan (%)	Interest on loan (₹ crore)
	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Loan from PFC for Part A of R-APDRP	24.48			24.48	24.48	11.50%	2.82	24.48			24.48	24.48	11.50%	2.82
Loan from PFC for Part B of R-APDRP	43.19			43.19	43.19	10.40%	4.49	43.19			43.19	43.19	10.40%	4.49
Loan from REC for DDUGJY	6.66			6.66	6.66	10.40%	0.69	6.66			6.66	6.66	10.40%	0.69
Loan for PSDF	0.95			0.95	0.95	10.40%	0.10	0.95			0.95	0.95	10.40%	0.10
Loan from PFC for IPDS	11.72			11.72	11.72	10.40%	1.22	11.72			11.72	11.72	10.40%	1.22
Total Loan	87.00	0.00	0.00	87.00	87.00		9.32	87.00	0.00	0.00	87.00	87.00		9.32
Weighted average Rate of Interest on Loans (in %) (Separately for "PS" and "WC")	10.71%													
	10.71%													

Notes:

1. "PS" refers to Project Specific
2. Calculation should only be for "PS"
3. In place of Loan 1, Loan 2 etc.

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Calculation of Weighted Average Rate of Interest on Actual Loans

Particulars	FY 2024-25					
	Gross Loan - Opening (₹ crore)	Add: Drawls during the year (₹ crore)	Less: Repayment of Loan during the year (₹ crore)	Closing Balance (₹ crore)	Average loan (₹ crore)	Rate of Interest on loan (%)
1	31	32	33	34	35	36
Loan from PFC for Part A of R-APDRP	24.48			24.48	24.48	11.50%
Loan from PFC for Part B of R-APDRP	43.19			43.19	43.19	10.40%
Loan from REC for DDUGJY	6.66			6.66	6.66	10.40%
Loan for PSDF	0.95			0.95	0.95	10.40%
Loan from PFC for IPDS	11.72			11.72	11.72	10.40%
Total Loan	87.00	0.00	0.00	87.00	87.00	9.32
Weighted average Rate of Interest on Loans (in %) (Separately for "PS" and "WC")	10.71%					

Notes:

1. "PS" refers to Project Specific
2. Calculation should only be for
3. In place of Loan 1, Loan 2 etc

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SUPERINTENDING ENGINEER

-cum-HOD

Electricity Department
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Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Interest and Finance Charges

(₹ crore)

S. No.	Loan Source	Rate of Interest (%)	Interest Due				
			Previous Year FY 2020-21	Current Year FY 2021-22	Control Period		
					FY 2022-23	FY 2023-24	FY 2024-25
I	Existing Loans						
A	Secured Loans						
1	Loan 1						
2	Loan 2						
3	Loan 3						
4	Loan 4						
5	Sub Total		0.00	0.00	0.00	0.00	0.00
B	Unsecured Loans						
1	Loan from PFC for Part A of R-APDRP	11.50%					
2	Loan from PFC for Part B of R-APDRP	10.40%					
3	Loan from REC for DDUGJY	10.40%					
4	Loan for PSDF	10.40%					
5	Loan from PFC for IPDS	10.40%					
	Sub Total		0.00	0.00	0.00	0.00	0.00
II	New Loans						
A	Secured Loans						
1	Loan 1						
2	Loan 2						
3	Loan 3						
4	Loan 4						
5	Sub Total		0.00	0.00	0.00	0.00	0.00
B	Unsecured Loans						
1	Loan 1						
2	Loan 2						
3	Loan 3						
4	Loan 4						
5	Sub Total		0.00	0.00	0.00	0.00	0.00
III	Other Interest & Finance Charges						
1	Cost of raising Finance / Bank Charges		3.20	3.36	3.53	3.71	3.89
2	Interest on Security Deposit		6.89	9.20	9.37	9.54	9.73
3	Penal Interest Charges						
4	Lease Rentals						
5	Sub Total		10.09	12.56	12.90	13.25	13.62
D	Grand Total of Interest & Finance Charges (I.A.5 + I.B.5 + II.A.5 + II.B.5 + III.5)		10.09	12.56	12.90	13.25	13.62
E	Less: Interest & Finance Charges Capitalised						
F	Net Interest & Finance Charges (D - E)		10.09	12.56	12.90	13.25	13.62

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Normative Interest on Loan Recalculation

Sr. No.	Particulars	Previous Year	Current Year (Rev. Est)	Ensuing Year (Projection)		
		FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
1	Opening Normative Loan	138.50	168.34	157.14	130.42	133.82
2	Add: Normative Loan during the Year	63.24	24.50	9.88	41.34	77.70
3	Less: Normative Repayment	33.40	35.70	36.60	37.94	41.07
4	Closing Normative Loan	168.34	157.14	130.42	133.82	170.45
4	Average Normative Loan	153.42	162.74	143.78	132.12	152.14
5	Rate of Interest (@SBI 1 Year MCLR rate+100 Basis Points)	8.75%	8.00%	8.00%	8.00%	8.00%
6	Interest on Normative Loan	13.42	13.02	11.50	10.57	12.17
7	Other Finance Charges	3.20	3.36	-	-	-
8	Total Interest & Finance Charges	16.63	16.38	11.50	10.57	12.17

(Rs. Crore)

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Electricity Department
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Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Working Capital Requirements

						(₹ crore)			
S. No.	Particulars	Ref. Form No.	Previous Year	Current Year	Control Period				
			Actual	Estimated	Projections				
			FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25		
A)	O&M Expenses for Wire Business								
i)	R&M Expenses	20	11.29	7.98	8.81	48.01		49.27	
ii)	A&G Expenses	19	17.13	18.06	19.04	20.07		21.15	
iii)	Employee Cost	18A	114.53	114.18	115.41	116.65		117.91	
iv)	Total O&M Expenses		142.96	140.21	143.25	184.73		188.33	
v)	O&M Expenses for wire business for 1 month		11.91	11.68	11.94	15.39		15.69	
B	Maintenance Spares (@ 40% of R&M Expenses for one (1) month)		0.38	0.27	0.29	1.60		1.64	
C	Receivables equivalent to two (2) months		238.93	265.08	270.65	287.65		299.51	
D	Less: Amount, if any, held as security deposits from Distribution System Users		212.66	216.44	220.41	224.57		228.94	
E	Total Working Capital (A (v)+B+C-D)		38.55	60.59	62.48	80.08		87.91	
F	Rate of Interest **		9.75%	9.00%	9.00%	9.00%		9.00%	
G	Interest on Working Capital		3.76	5.45	5.62	7.21		7.91	
**The Interest rate for this purpose shall be the rate as specified in									

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Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Fixed Assets & Provision for Depreciation

Fixed Assets and Depreciation For True Up year and each Year of MYT Control Period

(₹ crore)

S. No	Particulars	Amount (₹ crore) (A)	Contribution from Subsidies/ Grants/ Beneficiaries' Contribution / Consumers Contribution (B)	Value of Asset eligible for depreciation (A-B)	Rate of Depreciation (%)	Previous Year				
						FY 2020-21				
						At the start of the Year	Addition during the Year	Deduction	Total Depreciable base	At the end of the Year
1	Land and Land rights				0.00%	9.39	0.98	0.00	10.37	10.37
2	Building				1.80%	22.21	2.32	0.00	24.53	24.53
3	Plant & Machinery				3.60%	485.25	50.72	0.00	535.98	535.98
4	Lines and Cables Network				3.60%	302.75	31.65	0.00	334.39	334.39
5	Vehicles				18.00%	2.42	0.25	0.00	2.67	2.67
6	Furniture and Fixtures				6.00%	0.19	0.02	0.00	0.21	0.21
7	Office Equipments				6.00%	1.08	0.11	0.00	1.19	1.19
8	IT Equipments				6.00%	2.55	0.27	0.00	2.82	2.82
9	Testing & Measuring Equipments				6.00%	4.24	0.44	0.00	4.68	4.68
10	SCADA Centre				6.00%	34.22	3.58	0.00	37.79	37.79
	TOTAL					864.29	90.34	0.00	954.63	954.63
	Total as per Audited Account (for True up year only)									


SUPERINTENDING ENGINEER
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Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL

PERIOD - FY 2022-23 TO FY 2024-25

Fixed Assets & Provision for Depreciation

Fixed Assets and Depreciation For True Up year an

(₹ crore)

S. No	Particulars	Current Year						1st year					
		FY 2021-22						FY 2022-23					
		Fixed Assets, excluding Consumer Contribution /Grants/Subsidies						Fixed Assets, excluding Consumer Contribution /Grants/Subsidies					
		At the start of the Year	Addition during the Year	Deduction	Total Depreciable base	At the end of the Year	Depreciation	At the start of the Year	Addition during the Year	Deduction	Total Depreciable base	At the end of the Year	Depreciation
1	Land and Land rights	10.37	0.38	0.00	10.75	10.75	0.00	10.75	0.15	0.00	10.91	10.91	0.00
2	Building	24.53	0.90	0.00	25.43	25.43	0.45	25.43	0.36	0.00	25.79	25.79	0.46
3	Plant & Machinery	535.98	19.65	0.00	555.63	555.63	19.65	555.63	7.93	0.00	563.55	563.55	20.15
4	Lines and Cables Network	334.39	12.26	0.00	346.65	346.65	12.26	346.65	4.95	0.00	351.60	351.60	12.57
5	Vehicles	2.67	0.10	0.00	2.77	2.77	0.49	2.77	0.04	0.00	2.80	2.80	0.50
6	Furniture and Fixtures	0.21	0.01	0.00	0.22	0.22	0.01	0.22	0.00	0.00	0.23	0.23	0.01
7	Office Equipments	1.19	0.04	0.00	1.23	1.23	0.07	1.23	0.02	0.00	1.25	1.25	0.07
8	IT Equipments	2.82	0.10	0.00	2.92	2.92	0.17	2.92	0.04	0.00	2.97	2.97	0.18
9	Testing & Measuring Equipments	4.68	0.17	0.00	4.85	4.85	0.29	4.85	0.07	0.00	4.92	4.92	0.29
10	SCADA Centre	37.79	1.39	0.00	39.18	39.18	2.31	39.18	0.56	0.00	39.74	39.74	2.37
	TOTAL	954.63	35.00	0.00	989.63	989.63	35.70	989.63	14.12	0.00	1003.75	1003.75	36.60
	Total as per Audited Account (for True up year only)												

T. Chokkalingam

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD - FY 2022-23 TO FY 2024-25

Fixed Assets & Provision for Depreciation

Fixed Assets and Depreciation For True Up year an

(₹ crore)

S. No	Particulars	Control Period						3rd year					
		2nd year						FY 2024-25					
		FY 2023-24						FY 2024-25					
		Fixed Assets, excluding Consumer Contribution /Grants/Subsidies						Fixed Assets, excluding Consumer Contribution /Grants/Subsidies					
		At the start of the Year	Addition during the Year	Deductio n	Total Depreciable base	At the end of the Year	Depreciatio n	At the start of the Year	Addition during the Year	Deduction	Total Depreciable base	At the end of the Year	Depreciatio n
1	Land and Land rights	10.91	0.64	0.00	11.55	11.55	0.00	11.55	1.21	0.00	12.76	12.76	0.00
2	Building	25.79	1.52	0.00	27.31	27.31	0.48	27.31	2.85	0.00	30.16	30.16	0.52
3	Plant & Machinery	563.55	33.16	0.00	596.71	596.71	20.88	596.71	62.32	0.00	659.03	659.03	22.60
4	Lines and Cables Network	351.60	20.69	0.00	372.29	372.29	13.03	372.29	38.88	0.00	411.17	411.17	14.10
5	Vehicles	2.80	0.17	0.00	2.97	2.97	0.52	2.97	0.31	0.00	3.28	3.28	0.56
6	Furniture and Fixtures	0.23	0.01	0.00	0.24	0.24	0.01	0.24	0.02	0.00	0.26	0.26	0.02
7	Office Equipments	1.25	0.07	0.00	1.32	1.32	0.08	1.32	0.14	0.00	1.46	1.46	0.08
8	IT Equipments	2.97	0.17	0.00	3.14	3.14	0.18	3.14	0.33	0.00	3.47	3.47	0.20
9	Testing & Measuring Equipments	4.92	0.29	0.00	5.21	5.21	0.30	5.21	0.54	0.00	5.75	5.75	0.33
10	SCADA Centre	39.74	2.34	0.00	42.07	42.07	2.45	42.07	4.39	0.00	46.47	46.47	2.66
	TOTAL	1003.75	59.06	0.00	1062.81	1062.81	37.94	1062.81	111.00	0.00	1173.81	1173.81	41.07
	Total as per Audited Account (for True up year only)												

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Electricity Department

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Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Return on Equity

S. No	Particulars	Previous Year		Current Year		Control Period		
		Actual		Estimated		Projection		
		FY 2020-21		FY 2021-22		FY 2022-23	FY 2023-24	FY 2024-25
1	Opening Balance of Equity	259.29		286.39		296.89	301.13	318.84
2	Equity Addition during year (30% of Capitalization)	27.10		10.50		4.24	17.72	33.30
3	Closing Balance of Equity	286.39		296.89		301.13	318.84	352.14
4	Average Equity Amount	272.84		291.64		299.01	309.98	335.49
5	Average Equity-Wires Business	245.55		262.48		269.11	278.99	301.94
6	Average Equity -Retail Supply Business	27.28		29.16		29.90	31.00	33.55
7	Return on Equity for Wires Business (%)	15.50%		15.50%		15.50%	15.50%	15.50%
8	Return on Equity for Retail Supply Business (%)	16.00%		16.00%		16.00%	16.00%	16.00%
9	Return on Equity for Wires Business	38.06		40.68		41.71	43.24	46.80
10	Return on Equity for Retail Supply Business	4.37		4.67		4.78	4.96	5.37
11	Total Return on Equity	42.43		45.35		46.50	48.20	52.17

*To be based on rate applicable as per regulations

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Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Operations and Maintenance Expenses Summary

(Rs. Crore)

Sr. No.	Particulars	FY 2020-21		Deviation (c) = (b) - (a)	Control Period			Remarks
		Tariff Order (a)	April-March (Audited) (b)		FY 2022-23	FY 2023-24	FY 2024-25	
1	O&M Expenses							
1.1	Employee Expenses	112.25	129.85	17.60	115.41	116.65	117.91	
1.2	R&M Expenses	9.59	11.29	1.70	8.81	48.01	49.27	
1.3	A&G Expenses	12.8	17.13	4.33	19.04	20.07	21.15	
2	O&M Expense capitalised		15.32	15.32	0.00	0.00	0.00	
3	Total Operation & Maintenance Expenses (net of capitalisation)	134.64	142.96	8.32	143.25	184.73	188.33	

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Electricity Department
Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

(Rs. Crore)

Sr. No.	Particulars	Approved O&M Expenses			3-Year Average (d) = [(a)+(b)+(c)]/3	Base Year FY 2021-22 (e)	MYT Control Period				
		FY 2020-21		FY 2022-23			FY 2024-24		FY 2024-25		
		FY 2018-19	FY 2019-20	(a)			(b)	(c)	Normative	Projected	Normative
1	Employee Expenses	108.46	112.25	112.94	111.22	114.18	115.41	116.65	117.91		
2	A&G Expenses	8.61	12.8	13.48	11.63	18.06	19.04	20.07	21.15		
3	R & M Expenses	4.47	9.59	10.5	8.19	7.98	8.81	9.13	9.26		
4	Total O&M Expenses	121.54	134.64	136.92	131.03	140.21	143.25	145.85	148.32	0.00	0.00

T.C. 1/9/20

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Electricity Department
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Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Employee Expenses

(₹ crore)

S.No	Particulars	Previous Year	Current Year	Control Period	
		Actual FY 2020-21	Estimated FY 201-22	FY 2022-23	FY 2023-24
A	Employee Cost (Other than covered in 'C' & 'D')				
1	Salaries	128.53			
2	Wages	0.80			
3	Stipend	0.53			
4	Dearness Allowance (DA)				
5	Other Allowances				
6	Interim Relief / Wage Revision				
7	Overtime				
8	Bonus				
9	Generation Incentive				
	Sub Total	129.85			
B	Other Costs				
1	Medical Expenses Reimbursement				
2	Travelling Allowance (Conveyance Allowance)				
3	Leave Travel Assistance				
4	Payment Under Workman's Compensation Act				
5	Electricity Concession to Employees				
6	Other Staff Welfare Expenses				
7	Any Other Item (specify)				
	Sub Total	0.00			
C	Apprentice and Other Training Expenses	0.00			
D	Contribution to Terminal Benefits				
1	Earned Leave Encashment				
2	Provident Fund Contribution				
3	Provision for PF Fund				
4	Pension				
5	Gratuity				
6	Ex-gratia				
7	Any Other Item (specify)				
	Sub Total	0.00			
E	Grand Total (A+B+C+D)	129.85			
F	Employee Expenses Capitalized	14.87			
G	Employee Cost towards maintenance of toher Govt Department	0.45			
H	Net Employee Expenses (E)-(F)-(G)	114.53	114.18	115.41	116.65
					117.91

Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Employee Strength

Sr.No	Particulars	Actuals		Projections			
		FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
1	Number of employees as on 1st April	2,064	1,954	1,848	1,772	1,604	1,355
2	Employees on deputation/ foreign service as on 1st April						
3	Total number of employees (1+2)	2,064	1,954	1,848	1,772	1,604	1,355
4	Number of employees retired/ retiring during the year	110	106	76	168	249	338
5	Net transfers [In / (Out)]						
6	Recruitment			-	-	-	-
7	Number of employees at the end of the year (3-4+5+6)	1,954	1,848	1,772	1,604	1,355	1,017

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Electricity Department
Puducherry

Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25
Administration & General Expenses

Sr. No.	Particulars	Previous Year	Current Year	Control Period		
		Actual	Estimated	Projections		
		FY 2020-21	FY 201-22	FY 2022-23	FY 2023-24	FY 2024-25
1	Rent, rates & taxes					
2	Other Professional charges including Regulatory Expenses (License + Petition Fees)					
3	Office Expenses including Legal, Professional & Special Service Charges					
4	Advertisement & Publicity					
5	Other A&G Charges	10.68				
6	Other professional charges					
7	Conveyance & Travel expense					
8	Electricity & water charges					
9	Others					
10	Freight					
11	Incentives to consumers					
12	Grant - in - Aid					
12	Other material related expenses					
13	EESL Charges	6.45				
14	Payment towards smart grid projects					
15	Total	17.13				
16	Add/Deduct share of others (to be specified)					
17	Total expenses	17.13				
18	Less: Capitalized					
19	Net expenses	17.13				
20	Add: Prior period					
21	Total A&G Expenses charged to revenue	17.13	18.06	19.04	20.07	21.15

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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Repair & Maintenance Expenditure

S.No.	Particulars	Previous Year	Current Year	Control Period		
		Actual	Estimated	Projections		
		FY 2020-21	FY 201-22	FY 2022-23	FY 2023-24	FY 2024-25
1	Plant and Machinery					
	- 66 kV Sub-Station					
	- 33kV Sub-Station					
	- 11kV Sub-Station					
	- Switchgear and cable connections					
	- Others					
2	Building					
3	Civil Works					
4	Hydraulic Works					
5	Lines, Cables, Networks etc.		7.98	8.81	9.13	9.26
	- 66 kV Lines					
	- 33kV Lines					
	- 11kV Lines					
	- LT Lines					
	- Others					
6	Vehicles					
7	Furniture and Fixtures					
8	Office Equipments					
9	Station Supplies					
	Payments towards Smart metering project		0.00	0.00	38.88	40.01
10	Any Other Item					
A	Gross R&M Expenses		7.98	8.81	48.01	49.27
B	R&M Expenses Capitalised		0.00	0.00	0.00	0.00
12	Net R&M Expenses	11.29	7.98	8.81	48.01	49.27

Rs. Crore

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Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Income from Investments and Non-Tariff Income

S. No.	Particulars	Previous Year		Current Year		Control Period		
		Actual	FY 2020-21	Estimated	FY 201-22	Projections		
						FY 2022-23	FY 2023-24	FY 2024-25
1	Meter/metering equipment/service line rentals							
2	Service Charges							
3	Customer Charges							
4	Revenue from Late Payment Surcharge*							
5	Miscellaneous Charges							
6	Incentives from CGSs							
7	Miscellaneous Receipts							
8	Interest on advances to suppliers/contractors							
9	Interest on Staff Loans and Advances							
10	Income from Trading							
11	Income from Staff Welfare Activities							
12	Excess found on Physical Verification							
13	Interest on Investments, Fixed and Call Deposits and Bank Balances							
14	Prior Period Income							
15	Income from Open Access Charges (Application fee, Cross Subsidy Surcharge, Additional Surcharge, Transmission and/or Wheeling Charges, Scheduling Charges etc.							
16	Any other Income not included above							
	Total		3.21		3.38	3.54	3.72	3.91

Note:

*Net revenue from late payment surcharge (late payment surcharge less financing cost of late payment surcharge)

T. Chandrasekhar

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Electricity Department
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TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Interest on Consumer Security Deposit

Sr. No.	Particulars	Previous Year		Current Year		Control Period		
		Actual		Projections		FY 2022-23	FY 2023-24	FY 2024-25
1	Opening Security Deposit	210.82		214.51		218.38	222.44	226.70
2	Add: Deposits during the Year	3.68		3.87		4.06	4.27	4.48
3	Less: Deposits refunded	0		0		0	0	0
4	Less: Deposits in form of BG/FDR	0		0		0	0	0
5	Closing Security Deposit	214.51		218.38		222.44	226.70	231.18
6	Bank Rate	4.65%		4.25%		4.25%	4.25%	4.25%
7	Interest on Security Deposit *	6.89		9.20		9.37	9.54	9.73

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-cum-HOD

Electricity Department

Puducherry

Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Debits, Write-offs and Any Other Items

S. No	Particulars	Previous Year		Current Year		Control Period		
		Actual	FY 2020-21	Estimated	FY 201-22	Projections		
						FY 2022-23	FY 2023-24	FY 2024-25
1	Material Cost Variance							
2	Miscellaneous Losses Written Off							
3	Bad Debt Written Off/Provided For							
4	Cost of Trading & Manufacturing Activities							
5	Net Prior Period Credit/Charges							
6	Sub Total							
7	Less Chargeable to Capital Expenses							
8	Net Chargeable to Revenue		0.00		0.00	0.00	0.00	0.00

(₹ crore)

Note :

1. The above information is to be provided in consolidated form in case of Distribution Licensee.

T. Chandrasekhar

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-cum-HOD
Electricity Department
Puducherry

Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Revenue from Tariff for the year FY 2020-21 (Actual)

Sl. No.	Category	No. of consumers	Components of tariff				Relevant sales & load/demand data for revenue				Full year revenue (Rs. Crore)				Average Billing Rate (Rs/kWh)	Ratio of Average Billing Rate to Average Cost of Supply @ Rs. 5.83/kWh (%)
			Fixed Charges		Energy Charges		Fuel surcharge per unit, if any	sanctioned Load in kW	Contract Demand in KVA/MVA	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Revenue from surcharge 4%	Total		
			Units	Fixed Charges	Units	Energy Charges										
1	Domestic & Cottage															
	0-100	141038	Rs./Connection/Month	40	Rs./kWh	1.50				357.97	6.77	53.69565	2.42	62.88		
	101-200	102416	Rs./Connection/Month	45	Rs./kWh	2.55				195.60	5.53	49.876725	2.22	57.62		
	201-300	55794	Rs./Connection/Month	45	Rs./kWh	4.50				114.00	3.01	51.3018	2.17	56.49		
	> 300	59180	Rs./Connection/Month	45	Rs./kWh	5.90				138.60	3.21	81.77636	3.40	88.38		
	Total	358628								806.174	18.52	236.650535	10.21	265.38	3.29	
2	Life Line Services														56.5%	
	Life Line Services	8,248	-		Rs./kWh	1.00				3.50	0.00	0.35	0.01	0.36	17.8%	
3	Commercial															
	0-100	22868	Rs./Connection/Month	130	Rs./kWh	5.60				40.74	3.57	22.8144	1.06	27.44		
	101-250	9249	Rs./Connection/Month	130	Rs./kWh	6.65				46.16	1.44	30.6964	1.29	33.42		
	> 250	23933	Rs./Connection/Month	130	Rs./kWh	7.40				61.60	3.73	45.58104	1.97	51.29		
	Total	56050								148	8.74	99.09	4.31	112.15	7.55	
4	Agriculture														129.5%	
	Small Farmers	960	Rs./Hp/Month	11	-	-		6.237	3.49	0.08	0	0	0.00	0.09		
	Other Farmers	6069	Rs./Hp/Month	50	-	-		53.763	51.50	3.23	0	0	0.13	3.35		
	Total	7029						60000	59.99	3.31	0.00	0.00	0.13	3.44	0.57	
5	Public Lighting														9.8%	
	Public lighting	51153	Rs./Pole/Month	110	Rs./kWh	6.80				21.73	6.75	14.7764	0.86	22.39	10.30	
6	Industrial & Water														176.7%	
	LT Industrial	3584	Rs./Connection/Month	130	Rs./kWh	5.95				106.91	0.56	63.61	2.57	66.73		
	Water Tank	802	Rs./Connection/Month	150	Rs./kWh	6.85				35.05	0.14	24.01	0.97	25.12		
	Total	4386								141.95	0.70	87.62	3.53	91.85	6.47	
	Temporary Supply-LT & HT														111.0%	
7	Temporary Supply-LT & HT	0	Rs./Connection/Month		Rs./kWh					4.43	0	5.16	0.21	5.37	12.11	
8	HT-1														207.8%	
	HT Industries (For Supply at 11 kV, 22 kV or 33 kV)	343	Rs./kVA/Month	420	Rs./kWh	5.50		1,99,860	806.29		100.73	443.46	21.77	565.96		
	HT Commercial (For contract demand up to 5000 kVA)	112	Rs./kVA/Month	420	Rs./kWh	5.65		29,306	58.14		14.77	32.85	1.90	49.53		
	Total	455						229166	864		115.50	476.31	23.67	615.48	7.12	
9	HT-2 Others														122.1%	
	HT-Others	63	Rs./kVA/Month	480	Rs./kWh	6.60		23,180	53.49		13.35	35.30	1.95	50.60	9.46	
10	HT-3 EHT														162.3%	
	EHT Industries (For Supply at 110 kV or 132 kV)	8	Rs./kVA/Month	480	Rs./kWh	5.20		36,604	413.94		21.14	215.25	9.46	245.84	5.94	
	Electric Vehicle Charging Station															
11	Electric Vehicle Charging Station	0	-		Rs./kWh	4.50			0.00		0.00	0.00	0.00	0.00		

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Sl. No.	Category	No. of consumers	Components of tariff					Relevant sales & load/demand data for revenue				Full year revenue (Rs. Crore)				Average Billing Rate (Rs/kWh)	Ratio of Average Billing Rate to Average Cost of Supply @ Rs. 5.83/kWh (%)
			Fixed Charges		Energy Charges			sanctioned Load in kW	Contract Demand in KVA/MVA	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Revenue from surcharge 4%	Total			
			Units	Fixed Charges	Units	Energy Charges	Fuel surcharge per unit, if any										
11	Hoarding and Signboards																
	Hoarding and Signboards	0	Rs./kVA/Month or part thereof	140	Rs./kWh	8.00			0.00	0.00	0.00	0.00	0.00				
12	Penal charges												27.42				
13	Less Incentives												-28.35				
14	Export to Other Region								3.92				3.42				
15	Consumption of this Financial Year's March billed in Next FY's April												103.40				
16	Consumption of previous FY's March billed Current FY's in April												-85.18				
	Total	4,86,020							2,522.06	188.01	1,170.51	54.34	1,433.57	5.68			

Electricity Department, Puducherry

Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Revenue from Tariff for the year FY 2021-22 (Estimated)

Sl. No.	Category	No. of consumers	Components of tariff				Relevant sales & load/demand data for revenue calculation				Full year revenue (Rs. Crore)				Average Billing Rate (Rs./kWh)	Ratio of Average Billing Rate to Average Cost of Supply @ Rs 5.73/kWh (%)
			Fixed Charges		Energy Charges		sanctioned Load in kW	Contract Demand in KVA/MVA	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Revenue from surcharge 5%	Total			
			Units	Fixed Charges	Units	Energy Charges										
1	Domestic & Cottage															
	0-100	145269	Rs./Connection/Month	40	Rs./kWh	1.55			370.99	6.97	57.50286003	3.22	67.70			
	101-200	105488	Rs./Connection/Month	45	Rs./kWh	2.60			204.90	5.70	53.27488238	2.95	61.92			
	201-300	57468	Rs./Connection/Month	45	Rs./kWh	4.65			108.10	3.10	50.26594491	2.67	56.04			
	> 300	61161	Rs./Connection/Month	45	Rs./kWh	6.05			122.73	3.30	74.25407756	3.88	81.43			
	Total	369386.84							806.72	19.08	235.2977649	12.72	267.09		57.78%	
2	Life Line Services															
	Life Line Services	8,248	-		Rs./kWh	1.00			3.50	0.00	0.35	0.02	0.37		18.32%	
3	Commercial															
	0-100	23291	Rs./kWh/Month	75	Rs./kWh	5.70		26867	39.82	2.42	22.69783944	1.26	26.37			
	101-250	9420	Rs./kWh/Month	75	Rs./kWh	6.75		22943	46.13	2.06	31.13924612	1.66	34.86			
	> 250	24376	Rs./kWh/Month	75	Rs./kWh	7.50		52104	118.93	4.69	89.1946834	4.69	98.58			
	Total	57087						101914	205	9.17	143.03	7.61	159.81		136.13%	
4	Agriculture															
	Small Farmers	960	Rs./Hp/Month	11	-	-		6,237	8.53	0.08	0	0.00	0.09			
	Other Farmers	6093	Rs./Hp/Month	50	-	-		54,063	53.18	3.24	0	0.16	3.41			
	Total	7053						60300	61.71	3.33	0.00	0.17	3.49		9.88%	
5	Public Lighting															
	Public Lighting	51381	Rs./Pole/Month	110	Rs./kWh	6.80			19.00	6.78	12.92	0.99	20.69		190.02%	
6	LT Industrial & Water Works															
	LT industrial	3602	Rs./kWh/Month	50	Rs./kWh	6.05		101359	124.11	6.08	75.09	4.06	85.23			
	Water Tank	806	Rs./Connection/Month	150	Rs./kWh	6.90		32896	40.28	0.15	27.79	1.40	29.34			
	Total	4408						134255.81	164.39	6.23	102.88	5.46	114.56		121.62%	
7	Temporary Supply-LT & HT															
	Temporary Supply-LT & HT	0	Rs./Connection/Month		Rs./kWh	9.75			4.96	0	4.84	0.24	5.08		178.66%	
8	HT-1															
	HT Industries (For Supply at 11 kV, 22 kV or 33 kV)	346	Rs./kVA/Month	420	Rs./kVAh	5.30		2,03,857	919.99	102.74	497.54	30.01	630.30			
	HT Commercial (For contract demand up to 5000 kVA)	113	Rs./kVA/Month	420	Rs./kVAh	5.45		29,892	85.61	15.07	47.61	3.13	65.81			
	Total	460						233749	1006	117.81	545.15	33.15	696.11		120.81%	
9	HT-2 Others															
	HT-Others	65	Rs./kVA/Month	480	Rs./kVAh	6.35		23,412	74.10	13.49	48.01	3.07	64.57		152.08%	
10	HT-3 EHT															
	EHT Industries (For Supply at 110 kV or 132 kV)	8	Rs./kVA/Month	480	Rs./kVAh	5.10		40,363	428.79	23.25	223.15	12.32	258.71		105.30%	
11	Electric Vehicle Charging Station															
	Electric Vehicle Charging Station	0	-		Rs./kWh	4.50			0.00	0.00	0.00	0.00	0.00			
11	Hoarding and Signboards															
	Hoarding and Signboards	0	Rs./kVA/Month or part thereof	140	Rs./kWh	8.00			0.00	0.00	0.00	0.00	0.00			
	Total	4,98,097						5,93,994	2,773.64	199	1,316	76	1,590.49		5.73	

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Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Revenue from Tariff for the year FY 2022-23 (As per the current Tariff)

Sl. No.	Category	No. of consumers	Components of tariff				Relevant sales & load/demand data for revenue calculation				Full year revenue (Rs. Crore)				Average Billing Rate (Rs/kWh)	Ratio of Average Billing Rate to Average Cost of Supply @ Rs 5.72/kWh (%)
			Fixed Charges		Energy Charges		sanctioned Load in kW	Contract Demand in KVA/MVA	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Revenue from surcharge 5%	Total			
			Units	Charges	Units	Charges										
1	Domestic & Cottage															
	0-100	149627	Rs./Connection/Month	40	Rs./kWh	1.55		0.459868464	380.26	7.18	58.94	3.31	69.43			
	101-200	108653	Rs./Connection/Month	45	Rs./kWh	2.60		0.253994921	210.03	5.87	54.61	3.02	63.50			
	201-300	59192	Rs./Connection/Month	45	Rs./kWh	4.65			110.80	3.20	51.52	2.74	57.45			
	> 300	62996	Rs./Connection/Month	45	Rs./kWh	6.05			125.80	3.40	76.11	3.98	83.49			
	Total	380468							826.89	19.65	241.18	13.04	273.87	3.31	57.90%	
2	Life Line Services															
	Life Line Services	8,248	-		Rs./kWh	1.00			3.50	0.00	0.35	0.02	0.37	1.05	18.36%	
3	Commercial															
	0-100	23722	Rs./kW/Month	75	Rs./kWh	5.70		30105	40.82	2.71	23.27	1.30	27.27			
	101-250	9594	Rs./kW/Month	75	Rs./kWh	6.75		34877	47.29	3.14	31.92	1.75	36.81			
	> 250	24827	Rs./kW/Month	75	Rs./kWh	7.50		89911	121.90	8.09	91.42	4.98	104.49			
	Total	58143						154893	210	13.94	146.61	8.03	168.58	8.03	140.34%	
4	Agriculture															
	Small Farmers	960	Rs./Hp/Month	11	-	-		6,237	8.37	0.08	0	0.00	0.09			
	Other Farmers	6118	Rs./Hp/Month	50	-	-		54,365	52.60	3.26	0	0.16	3.42			
	Total	7078						60602	61.17	3.34	0.00	0.17	3.51	0.57	10.03%	
5	Public Lighting															
	Public Lighting	52923	Rs./Pole/Month	110	Rs./kWh	6.80			17.50	6.99	11.9	0.94	19.83	11.33	198.10%	
6	LT Industrial & Water Works															
	LT Industrial	3620	Rs./kW/Month	50	Rs./kWh	6.05		103200.55	126.59	6.19	76.59	4.14	86.92	6.87		
	Water Tank	810	Rs./Connection/Month	150	Rs./kWh	6.90		33470.72	41.06	0.15	28.33	1.42	29.90	7.28		
	Total	4430						136671.26	167.65	6.34	104.92	5.56	116.82	6.97	121.82%	
7	Temporary Supply-LT & HT															
	Temporary Supply-LT & HT	0	Rs./Connection/Month		Rs./kWh	9.75			5.06	0	4.94	0.25	5.18	10.24	178.98%	
8	HT-1															
	HT Industries (For Supply at 11 kV, 22 kV or 33 kV)	350	Rs./kVA/Month	420	Rs./kVAh	5.30		2,07,934	931.66	104.80	503.86	30.43	639.09			
	HT Commercial (For contract demand up to 5000 kVA)	114	Rs./kVA/Month	420	Rs./kVAh	5.45		30,490	86.69	15.37	48.21	3.18	66.76			
	Total	464						238424	1018	120.17	552.07	33.61	705.85	6.93	121.18%	
9	HT-2 Others															
	HT-2 Others	67	Rs./kVA/Month	480	Rs./kVAh	6.35		23,646	76.75	13.62	49.73	3.17	66.52	8.67	151.52%	
10	HT-3 EHT															
	EHT Industries (For Supply at 110 kV or 132 kV)	8	Rs./kVA/Month	480	Rs./kVAh	5.10		40,363	437.36	23.25	227.61	12.54	263.40	6.02	105.29%	
	Electric Vehicle Charging Station															
	Electric Vehicle Charging Station	0	-		Rs./kWh	4.50			0.00	0.00	0.00	0.00	0.00			
11	Hoarding and Signboards															
	Hoarding and Signboards	0	Rs./kVA/Month or part thereof	140	Rs./kWh	8.00			0.00	0.00	0.00	0.00	0.00			
	Total	5,11,829						6,54,599	2,824.25	207	1,339.30	77.33	1,623.92	5.75		

Electricity Department-Puducherry
TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
Revenue from Tariff for the year FY 2022-23 (As per the Proposed Tariff)

Sl. No.	Category	No. of consumers	Components of tariff				Relevant sales & load/demand data for revenue calculation				Full year revenue (Rs. Crore)				Average Billing Rate (Rs/kWh)	Ratio of Average Billing Rate to Average Cost of Supply @ Rs 5.72/kWh (%)
			Fixed Charges		Energy Charges		sanctioned Load in kW	Contract Demand in KVA/MVA	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Revenue from surcharge 5%	Total			
			Units	Fixed Charges	Units	Energy Charges										
1	Domestic & Cottage															
	0-100	149627	Rs./Connection/Month	40	Rs./kWh	1.90			380.26	7.18	72.25	3.97	83.40			
	101-200	108653	Rs./Connection/Month	45	Rs./kWh	2.75			210.03	5.87	57.76	3.18	66.81			
	201-300	59192	Rs./Connection/Month	45	Rs./kWh	4.65			110.80	3.20	51.52	2.74	57.45			
	> 300	62996	Rs./Connection/Month	45	Rs./kWh	6.05			125.80	3.40	76.11	3.98	83.49			
	Total	380468							826.89	19.65	257.64	13.86	291.15	3.52	61.56%	
2	Life Line Services															
	Life Line Services	8,248	-		Rs./kWh	1.00			3.50	0.00	0.35	0.02	0.37	1.05	18.36%	
3	Commercial															
	0-100	23722	Rs./kWh/Month	75	Rs./kWh	5.70		30105	40.82	2.71	23.27	1.30	27.27			
	101-250	9594	Rs./kWh/Month	75	Rs./kWh	6.75		34877	47.29	3.14	31.92	1.75	36.81			
	> 250	24827	Rs./kWh/Month	75	Rs./kWh	7.50		89911	121.90	8.09	91.42	4.98	104.49			
	Total	58143						154893	210	13.94	146.61	8.03	168.58	8.03	140.34%	
4	Agriculture															
	Small Farmers	960	Rs./Hp/Month	20	-	-		6,237	8.57	0.15	0	0.01	0.16			
	Other Farmers	6118	Rs./Hp/Month	75	-	-		54,365	52.60	4.89	0	0.24	5.14			
	Total	7078						60602	61.17	5.04	0.00	0.25	5.29	0.87	15.13%	
5	Public Lighting															
	Public Lighting	52923	Rs./Pole/Month	110	Rs./kWh	6.80			17.50	6.99	11.9	0.94	19.83	11.33	198.10%	
6	LT Industrial & Water Works															
	LT industrial	3620	Rs./kWh/Month	50	Rs./kWh	6.05		103200.55	126.59	6.19	76.59	4.14	86.92	6.87		
	Water Tank	810	Rs./Connection/Month	150	Rs./kWh	6.90		33470.72	41.06	0.15	28.33	1.42	29.90	7.28		
	Total	4430						136671.26	167.65	6.34	104.92	5.56	116.82	6.97	121.82%	
7	Temporary Supply-LT & HT															
	Temporary Supply-LT & HT	0	Rs./Connection/Month		Rs./kWh	9.75			5.06	0	4.94	0.25	5.18	10.24	178.98%	
8	HT-1															
	HT Industries (For Supply at 11 kV, 22 kV or 33 kV)	350	Rs./kVA/Month	420	Rs./kVAh	5.35		2,07,934	931.66	104.80	508.61	30.67	644.08			
	HT Commercial (For contract demand up to 5000 kVA)	114	Rs./kVA/Month	420	Rs./kVAh	5.50		30,490	86.69	15.37	48.65	3.20	67.22			
	Total	464						238424	1018	120.17	557.27	33.87	711.30	6.98	122.11%	
9	HT-2 Others															
	HT-2 Others	67	Rs./kVA/Month	480	Rs./kVAh	6.40		23,646	76.75	13.62	50.12	3.19	66.93	8.72	152.45%	
10	HT-3 EHT															
	EHT Industries (For Supply at 110 kV or 132 kV)	8	Rs./kVA/Month	480	Rs./kVAh	5.15		40,300	437.36	23.21	229.84	12.65	265.71	6.08	106.21%	
	Electric Vehicle Charging Station															
	Electric Vehicle Charging Station	0	-		Rs./kWh	4.50			0.00	0.00	0.00	0.00	0.00			
11	Hoarding and Signboards															
	Hoarding and Signboards	0	Rs./kVA/Month or part thereof	140	Rs./kWh	8.00			0.00	0.00	0.00	0.00	0.00			
	Total	5,11,829							2,824	209	1,363.58	78.63	1,651.16	5.85		

Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -
FY 2022-23 TO FY 2024-25

Intra State Transmission Charges

S. No.	Particulars	Previous Year Actual			Current Year Estimated			Control Period Projections								
		Contracted Capacity (MW)	Monthly Charge (₹/MW/Month)	Total Charges (₹ crore)	Contracted Capacity (MW)	Monthly Charge (₹/MW/Month)	Total charges (₹ crore)	1st Year			2nd Year			3rd Year		
								Contracted Capacity (MW)	Monthly Charge (₹/MW/Month)	Total charges (₹ crore)	Contracted Capacity (MW)	Monthly Charge (₹/MW/Month)	Total charges (₹ crore)	Contracted Capacity (MW)	Monthly Charge (₹/MW/Month)	Total charges (₹ crore)
1	Intra State Transmission Charges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Wheeling Charges Payable to Other Distribution Licences	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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SUPERINTENDING ENGINEER

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Electricity Department

Puducherry

Electricity Department-Puducherry

TRUE-UP FOR FY 2020-21, ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD -

FY 2022-23 TO FY 2024-25

Income Tax Provisions

(₹ crore)

S. No.	Particulars	Previous Year		Current year		Control Period		
		Actual	Estimated	FY 2021-22	FY2022-23	Projection		FY 2024-25
						FY 2023-24		
1	Provision made/Proposed for the Year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Details as per Return filed for the Year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	As Assessed for the Year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Credit/Debit of Assessment Year (Give Details)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00		0.00	0.00	0.00	0.00	0.00

T.C. 10/10/2024

SUPERINTENDING ENGINEER
-cum-HOD
Electricity Department
Puducherry