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Cc: "Bharat" <aeipm@yahoo.com>, "nutanbene" <nutanbene@gmail.com>

Sent: Wednesday, November 30, 2022 4:27:54 PM

Subject: ED Goa Petition for APR 22-23, ARR and Tariff Proposal for FY 023-24

Sir,

PFA the affidavit sworn in respect of above subject Petition. The detail Petition will be mailed by tomo

BEFORE

## JOINT ELECTRICITY REGULATORY COMMISSION

FOR THE STATE OF GOA AND UNION TERRITORIES

**G**URUGRAM



PETITION

FOR

APPROVAL OF

ANNUAL PERFORMANCE REVIEW OF FY 2022-23, AGGREGATE REVENUE REQUIREMENT

FOR FY 2023-24 & TARIFF PROPOSAL FOR FY 2023-24

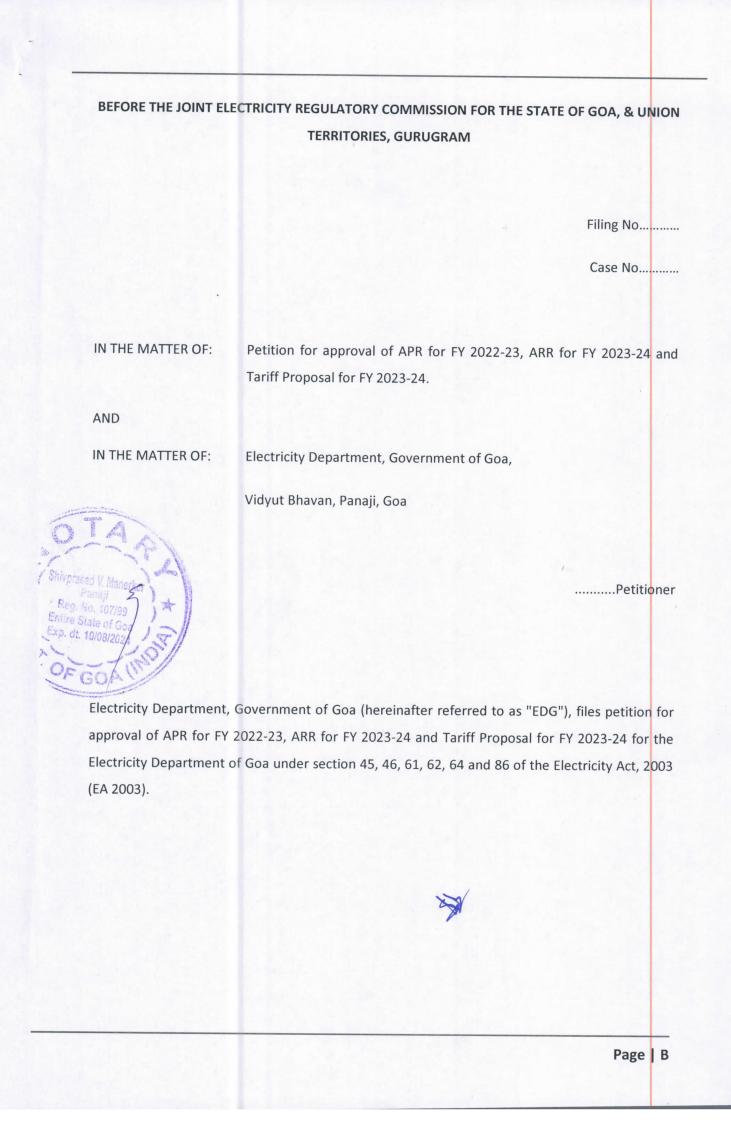
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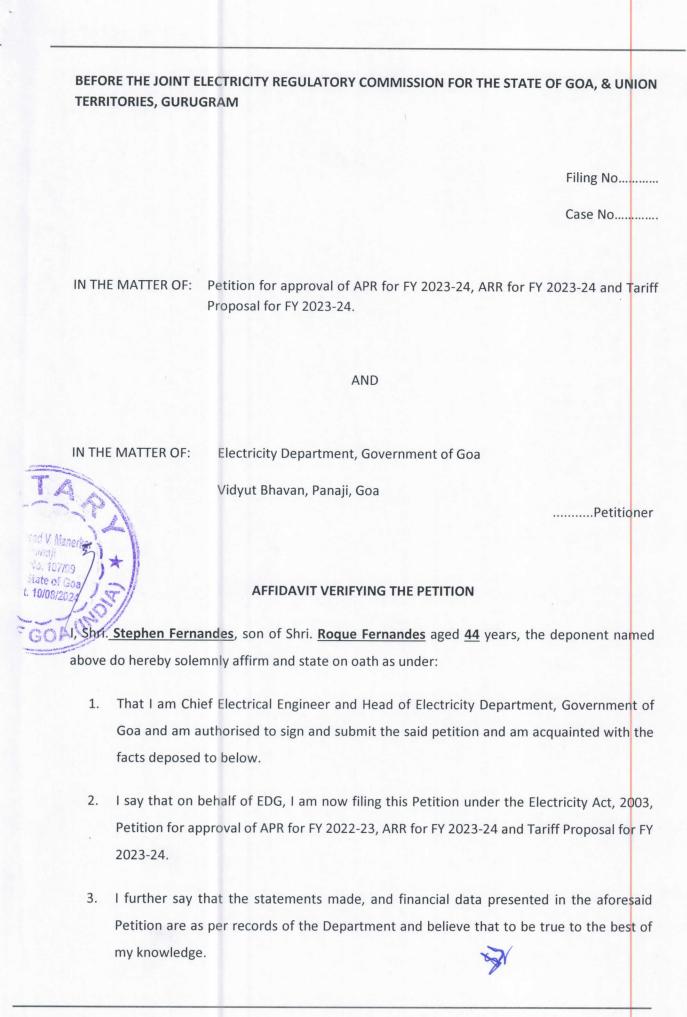


# ELECTRICITY DEPARTMENT Government of GOA

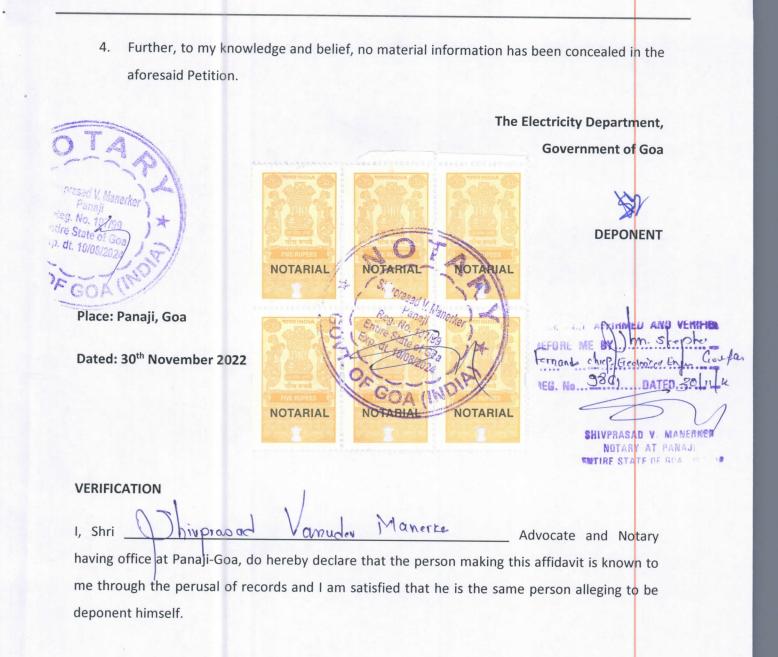
NOVEMBER 2022

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#### Advocate

Solemnly affirmed before me on this **30<sup>th</sup> day of November 2022** by the deponent who has been identified by the aforesaid Advocate. I have satisfied myself by examining the deponent that he understood the contents of the affidavit which has been read over and explained to him. He has also been explained about section 193 of Indian Penal Code that whoever intentionally gives false evidence in any of the proceedings of the Commission or fabricates evidence for purpose of being used in any of the proceedings shall be liable for punishment as per law.

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

Filing No....

Case No....

IN THE MATTER OF: Petition for approval of APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24.

AND

IN THE MATTER OF:

Electricity Department, Government of Goa

Vidyut Bhavan, Panaji, Goa

.....Petitioner

PETITIONER, UNDER SECTIONS 45, 46, 61, 62 AND 64 OF THE ELECTRICITY ACT, 2003 FILES FOR INITIATION OF PROCEEDINGS BY THE HON'BLE COMMISSION FOR DECIDING ON THE MATTERS CONCERNING THE PETITION FOR APPROVAL OF APR FOR FY 2022-23, ARR FOR FY 2023-24 AND TARIFF PROPOSAL FOR FY 2023-24.

#### The Petitioner respectfully submits as under: -

- 1. The Petitioner, Electricity Department Goa (EDG) is deemed Distribution Licensee for the State of Goa.
- Pursuant to the enactment of the Electricity Act, 2003, EDG is required to submit its Annual Revenue Requirement and Tariff Petition as per the procedures outlined in section 61, 62 & 64 of EA 2003, and in accordance with the provisions JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021 (MYT Regulations, 2021)
- 3. EDG hereby submits the present Petition for approval of APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24 based on the principles outlined in the JERC MYT Regulations 2021 notified by the Hon'ble Commission.

- 4. EDG hereby submits that the documents related to Budgetary Support assurance from the Government of Goa for FY 2022-23 and FY 2023-24 shall be submitted after issuance of the same by Government of Goa.
- 5. EDG prays to the Hon'ble Commission to admit the attached petition for APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24.

#### Prayers to the Hon'ble Commission:

- A. The petition provides, inter-alia, EDG's approach for formulating the present petition, the broad basis for projections used, performance of EDG in the recent past, and certain issues impacting the performance of EDG in the Licensed Area.
- B. Formulating the APR for FY 2022-23, Aggregate Revenue Requirement for FY 2023-24, based on the principles specified in JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021.
- C. In order to align the thoughts and principles behind the ARR and Tariff Petition, EDG respectfully seeks an opportunity to present its case prior to the finalization of the Tariff Order. EDG believes that such an approach would go a long way towards providing a fair treatment to all the stakeholders and may eliminate the need for a review or clarification.

### e Petitioner respectfully prays that the Hon'ble Commission may:

- a) Accept and admit the Petition for APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24 which is in line with the principles laid by the Hon'ble Commission contained in MYT Tariff Regulations 2021.
- b) Approve the total recovery and revenue gap for Annual Performance Review for FY 2022-23 and ARR for FY 2023-24 and Tariff Proposal for FY 2023-24 and other claims as proposed by EDG;
- c) Approve the Revenue gap of Rs. 297.71 Cr for FY 2022-23 as per APR and standalone Revenue Gap considering revenue from proposed tariff amounting to Rs. 349.98 Cr. for FY 2023-24 on provisional basis and the revenue gap as may be approved by the Hon'ble Commission during the process of finalising tariff petition;
- d) To consider the Tariff Design Philosophy and grant approval for proposed changes in Tariff Schedule (changes in applicability clauses), charges for services, miscellaneous charges and general terms & condition of the Tariff Order for FY 2023-24;
- e) Approve the revenue at the proposed tariff for FY 2023-24 and the gap of Rs. 349.98 Cr. till FY 2023-24. The revenue gap of Rs. 349.98 Cr. is proposed to be met through the budgetary support by the Government of Goa. The letter for Budgetary Support shall be submitted after issuance of the same by Government of Goa;



BEFORE

### JOINT ELECTRICITY REGULATORY COMMISSION

### For the State of Goa and Union Territories

**G**URUGRAM

PETITION

FOR

APPROVAL OF

ANNUAL PERFORMANCE REVIEW OF FY 2022-23, AGGREGATE REVENUE REQUIREMENT

FOR FY 2023-24 & TARIFF PROPOSAL FOR FY 2023-24

BY



## ELECTRICITY DEPARTMENT Government of GOA

NOVEMBER 2022

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

Filing No.....

Case No.....

IN THE MATTER OF:	Petition for approval of APR for FY 2022-23, ARR for FY 2023-24 and
	Tariff Proposal for FY 2023-24.

AND

IN THE MATTER OF: Electricity Department, Government of Goa,

Vidyut Bhavan, Panaji, Goa

.....Petitioner

Electricity Department, Government of Goa (hereinafter referred to as "EDG"), files petition for approval of APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24 for the Electricity Department of Goa under section 45, 46, 61, 62, 64 and 86 of the Electricity Act, 2003 (EA 2003).

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

Filing No.....

Case No.....

IN THE MATTER OF: Petition for approval of APR for FY 2023-24, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24.

AND

IN THE MATTER OF: Electricity Department, Government of Goa

Vidyut Bhavan, Panaji, Goa

.....Petitioner

#### AFFIDAVIT VERIFYING THE PETITION

I, Shri. <u>Stephen Fernandes</u>, son of Shri. <u>Roque Fernandes</u> aged <u>44</u> years, the deponent named above do hereby solemnly affirm and state on oath as under:

- 1. That I am Chief Electrical Engineer and Head of Electricity Department, Government of Goa and am authorised to sign and submit the said petition and am acquainted with the facts deposed to below.
- I say that on behalf of EDG, I am now filing this Petition under the Electricity Act, 2003, Petition for approval of APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24.
- 3. I further say that the statements made, and financial data presented in the aforesaid Petition are as per records of the Department and believe that to be true to the best of my knowledge.

4. Further, to my knowledge and belief, no material information has been concealed in the aforesaid Petition.

The Electricity Department, Government of Goa

DEPONENT

Place: Panaji, Goa

Dated: 30<sup>th</sup> November 2022

#### VERIFICATION

I, Shri	Advocate	and	Notary
having office at Panaji-Goa, do hereby declare that the person making	this affidavi	t is kn	iown to
me through the perusal of records and I am satisfied that he is the sar	ne person a	illegin	g to be
deponent himself.			

#### Advocate

Solemnly affirmed before me on this **30<sup>th</sup> day of November 2022** 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 JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA, & UNION TERRITORIES, GURUGRAM

Filing No.....

Case No.....

IN THE MATTER OF: Petition for approval of APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24.

AND

IN THE MATTER OF: Electricity Department, Government of Goa

Vidyut Bhavan, Panaji, Goa

.....Petitioner

PETITIONER, UNDER SECTIONS 45, 46, 61, 62 AND 64 OF THE ELECTRICITY ACT, 2003 FILES FOR INITIATION OF PROCEEDINGS BY THE HON'BLE COMMISSION FOR DECIDING ON THE MATTERS CONCERNING THE PETITION FOR APPROVAL OF APR FOR FY 2022-23, ARR FOR FY 2023-24 AND TARIFF PROPOSAL FOR FY 2023-24.

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- EDG hereby submits the present Petition for approval of APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24 based on the principles outlined in the JERC MYT Regulations 2021 notified by the Hon'ble Commission.

- 4. EDG hereby submits that the documents related to Budgetary Support assurance from the Government of Goa for FY 2022-23 and FY 2023-24 shall be submitted after issuance of the same by Government of Goa.
- 5. EDG prays to the Hon'ble Commission to admit the attached petition for APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24.

#### Prayers to the Hon'ble Commission:

- A. The petition provides, inter-alia, EDG's approach for formulating the present petition, the broad basis for projections used, performance of EDG in the recent past, and certain issues impacting the performance of EDG in the Licensed Area.
- B. Formulating the APR for FY 2022-23, Aggregate Revenue Requirement for FY 2023-24, based on the principles specified in JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021.
- C. In order to align the thoughts and principles behind the ARR and Tariff Petition, EDG respectfully seeks an opportunity to present its case prior to the finalization of the Tariff Order. EDG believes that such an approach would go a long way towards providing a fair treatment to all the stakeholders and may eliminate the need for a review or clarification.

#### The Petitioner respectfully prays that the Hon'ble Commission may:

- Accept and admit the Petition for APR for FY 2022-23, ARR for FY 2023-24 and Tariff Proposal for FY 2023-24 which is in line with the principles laid by the Hon'ble Commission contained in MYT Tariff Regulations 2021.
- Approve the total recovery and revenue gap for Annual Performance Review for FY 2022-23 and ARR for FY 2023-24 and Tariff Proposal for FY 2023-24 and other claims as proposed by EDG;
- Approve the Revenue gap of Rs. 298.33 Cr for FY 2022-23 as per APR and standalone Revenue Gap considering revenue from proposed tariff amounting to Rs. 348.69 Cr. for FY 2023-24 on provisional basis and the revenue gap as may be approved by the Hon'ble Commission during the process of finalising tariff petition;
- To consider the Tariff Design Philosophy and grant approval for proposed changes in Tariff Schedule (changes in applicability clauses), charges for services, miscellaneous charges and general terms & condition of the Tariff Order for FY 2023-24;
- Approve the revenue at the proposed tariff for FY 2023-24 and the gap of Rs. 348.69 Cr. till FY 2023-24. The revenue gap of Rs. 348.69 Cr. is proposed to be met through the budgetary support by the Government of Goa. The letter for Budgetary Support shall be submitted after issuance of the same by Government of Goa;

- Pass suitable orders with respect to APR for FY 2022-23 and ARR for FY 2023-24 and Tariff Determination Proposal for FY 2023-24 for the expenses to be incurred by EDG for serving its consumers;
- 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;
- Condone any inadvertent omissions/errors/shortcomings and permit EDG to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date;
- 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.

Electricity Department, Government of Goa

Petitioner

Place: Panaji Dated: 30<sup>th</sup> November 2022



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#### **1** INTRODUCTION

#### 1.1 Preamble

The Hon'ble Commission has notified JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021. In line with the same, EDG submits this Petition for APR for FY 2022-23, ARR for FY 2023-24 and Tariff Determination Proposal for FY 2023-24 as per the provisions of MYT Tariff Regulations, 2021

#### 1.2 Background: Electricity Department of Goa

The Electricity Department was formed in January 1963 under the Government of Goa, Daman & Diu. It is the only licensee operating in the State of Goa for transmission and distribution of Electrical Energy. The Electricity Department of Goa does not have its own generation. Most of the power requirement for the State of Goa is met through its share from Central Sector Power Stations of NTPC Ltd as allocated by the Central Government.

ED-Goa came into regulatory regime w.e.f. FY 2011-12 i.e. the first tariff filing year. The Electricity Department is a deemed Distribution Licensee within the meaning of Section 2 (17) of Electricity Act 2003 and pursuant to the Section 14 of the Electricity Act. Further, Section 42 and 43 of the Electricity Act 2003 prescribes the following duties of the deemed Distribution Licensee:

- To develop and maintain an efficient, co-ordinated and economical distribution system;
- To supply electricity on an application of the consumer in accordance with the provisions specified in the Electricity Act 2003;
- > To provide non-discriminatory open access to the consumers;
- > To establish a forum for redressal of grievances of the consumers.

The main purpose is to undertake the transmission, distribution and retail supply of electricity in its license area and for this purpose to plan, acquire, establish, construct, erect, lay, operate, run, manage, maintain, enlarge, alter, renovate, modernize, automate, work and use a power system network in all its aspects and also to carry on the business of purchasing, selling, importing of electrical energy, including formulation of tariff, billing and collection thereof and then to study, investigate, collect information and data, review operations, plan, research, design and prepare project reports, diagnose operational difficulties and weaknesses and advise on the remedial measures to improve and modernize existing sub-transmission and supply lines and sub-stations.



The Electricity Department of Goa caters 6.89 Lakh consumers (as on 30th September 2022) with an annual energy consumption of approx. 4009 MU for FY 2021-22. The Consumers of the Electricity Department of Goa are classified as under:

	FY 2022-2	3 H1	FY 2022-23 H1	
Particulars	No.of Consumers	%	Sales	%
Domestic	552650	80.17%	714.75	32.27%
Commercial	106354	15.43%	313.84	14.17%
Industrial	6466	0.94%	1114.74	50.33%
Agriculture	12760	1.85%	18.29	0.83%
Temporary	4706	0.68%	4.54	0.20%
Defence Establishment	14	0.00%	16.12	0.73%
Others	6367	0.92%	32.73	1.48%
Total	689317	100.00%	2215.01	100.00%

The peak demand of Goa during FY 2021-22 was around 704 MW (March 2022). As per CEA LGBR report, for FY 2021-22, the Energy Deficit and the peak deficit for the State of Goa were 0.00% (NIL) and 0.00% (NIL) respectively. The peak demand in FY 2022-23 (April to September) recorded in April was 726 MW. EDG is currently receiving 418 MW of power from the Western Region (WR) and 100 MW from the Southern Region (SR). The total firm allocation of power from central sector is approx 518 MW. In addition, the department also purchases power from Co-generation stations within state and short-term power procurement from the market, Traders, DEEP portal. Filing in the current Petition

EDG hereby submits that that audit works is in progress for the accounts of FY 2020-21 and FY 2021-22 which will be finalised by ED-Goa by December 2022 and the same will be submitted to CAG for auditing purposes. Accordingly, EDG has considered provisional actual numbers for FY 2020-21 and FY 2021-22 in this petition, however, the True-up petition for FY 2020-21 and FY 2021-22 will be submitted separately once the accounts are audited by CAG.

EDG also submits that for APR of the year 2022-23, the provisional actual figures for H1 and projected figures of ARR components for H2 have been considered. EDG also submits that the Revenue for FY 2022-23 has been calculated as per the existing Tariff approved by the Hon'ble Commission.

EDG further submits that for FY 2023-24 the ARR has been projected considering the



number of Consumers and Connected Load and Energy Sales for FY 2022-23 as per the revised projections. It has been projected based on the historical trends and current realistic scenario. All other components have been considered as per MYT Regulations 2021. Further, EDG has proposed a new tariff for FY 2023-24 to be levied on the consumers.



#### 2 OVERALL APPROACH FOR PRESENT FILING

The Hon'ble Commission had notified JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021 on 22<sup>nd</sup> March 2021.

In line with the above Regulations, EDG is filing the APR petitions and ARR petitions for consideration of the Hon'ble Commission in the formats laid down for providing information relating to past, present and future performance.

#### 2.1 Annual Performance Review for FY 2022-23

EDG is filing this Annual Performance Review petition for the year FY 2022-23 based on the provisional actual performance during the 1st half of the year and revised estimated for the 2nd half of the year taking into considering the approved figures by the Hon'ble Commission vide its Tariff Order dated 31st March, 2022.

#### 2.2 Determination of ARR for FY 2023-24 and Tariff for FY 2023-24.

The Hon'ble Commission has issued the ARR for the MYT control period FY 2022-23 to FY 2024-25 vide order dated 31<sup>st</sup> March 2022. In the said Tariff Order; Capex, capitalisation, power purchase requirement and sales have been approved by the Hon'ble Commission for the base year FY 2021-22 and MYT period FY 2022-23 to FY 2024-25. Further, considering the same as well as revised projections based on the realistic scenario, EDG is submitted the ARR and tariff proposal for FY 2023-24. The Commission in its Tariff order FY 2022-23 has hiked the tariff on average by 1.58%



#### 3 TRUE-UP

The Commission through its directives has directed the Petitioner to submit the audited annual accounts for FY 2017-18, FY 2018-19, FY 2019-20 and FY 2020-21 by 30th November 2021, so that the appropriate base year values for 3rd MYT Control Period can be considered.

Complying the directives, the EDG hereby submits that that the True-up Petition for FY 2017-18 to FY 2019-20 is already filed before the Hon'ble Commission. Further the Financial Accounts for FY 2020-21 & FY 2021-22 are completed. The CAG audit team is auditing the accounts. Upon completion of the audit of the Accounts for FY 2020-21 & FY 2021-22 the True-up Petitions for FY 2020-21 & FY 2021-22 will be submitted before the Hon'ble JERC by December 20, 2022.

The ED-Goa considered the provisional actual numbers for FY 2021-22 for the purpose of the Annual performance Review (APR) of FY 2022-23 and ARR for FY 2023-24.



#### 4 ANNUAL PERFORMANCE REVIEW FOR FY 2022-23

#### 4.1 Background to FY 2022-23 Petition

EDG in this chapter submits the performance of each parameter of ARR of FY 2022-23 against the values approved by the Hon'ble Commission in the Tariff Order dated 31<sup>st</sup> March 2022. This chapter summarizes each component of ARR for FY 2022-23 and requests the Hon'ble Commission to review the performance for FY 2022-23.

#### 4.2 Performance Review for FY 2022-23

4.2.1 Regulation 12 of the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021 states that,

*"12.1 The Generating Company, Transmission Licensee and Distribution Licensee shall be subject to annual performance review and truing up of expenses and revenue during the Control Period in accordance with these Regulations.* 

12.2 The Generating Company, Transmission Licensee and Distribution Licensee shall file an application for the annual performance review of the current year, truing up of the previous Year or the Year for which the audited accounts are available and determination of tariff for the ensuing Year on or before 30th November of each Year, in formats specified by the Commission from time to time :

Provided that the Generating Company, Transmission Licensee or Distribution Licensee, as the case may be, shall submit to the Commission information in such form as may be specified by the Commission, together with the audited accounts, extracts of books of account and such other details as the Commission may require to assess the reasons for and extent of any variation in financial performance from the approved forecast of Aggregate Revenue Requirement and Expected Revenue from Tariff and Charges."

The Hon'ble Commission had issued the Tariff Order for FY 2022-23 on 31<sup>st</sup> March 2022. For the purpose of ease of reference; the summary of approved ARR vis-a-vis submitted by EDG for FY 2022-23 submitted in the previous filing is reproduced hereunder:

S. No.	Particulars	Approved in MYT Order dt. 31 <sup>th</sup> March 2022	Submitted by EDG
1.	Power Purchase Cost	1839.53	2,230.19
2.	O&M Expenses	433.95	497.08

#### Table 4-1: ARR approved by JERC for FY 2022-23 (Rs. Cr.) in Tariff Oder dt. 31<sup>st</sup> March 2022



S. No.	Particulars	Approved in MYT Order dt. 31 <sup>th</sup> March 2022	Submitted by EDG
3.	Depreciation	52.64	58.92
4.	Interest on Loan	22.26	26.76
5.	Return on Equity	64.36	60.26
6.	Interest on Security Deposit	3.60	5.37
7.	Interest on Working Capital	18.13	14.92
8.	Total Revenue Requirement	2434.47	2893.49
9.	Less: Non-Tariff Income	26.32	29.36
10.	Net Revenue Requirement	2408.15	2864.13

EDG would now discuss each of the elements of review in detail for the revised estimates for FY 2022-23 for determination of ARR and its gap for FY 2022-23.

#### 4.3 Energy Sales

The energy sales for H1 (April to September) of FY 2022-23 is 2215.01 MU. It is submitted that the Hon'ble Commission had approved the estimated sales for FY 2022-23. For the purpose of Annual Performance Review for FY 2022-23, the figures of H1 sales of FY 2022-23 are taken from SAP accounts, and ED-Goa has extrapolated these based on actual sales in second half of FY 2021-22 with respect actual sales during first half of FY 2021-22 to arrive at the projections of FY 2022-23 i.e. the base year.

The following table shows the overall sales considered by EDG for APR of FY 2022-23 visà-vis Sales approved in Tariff Order dated 30th March 2021.

Sr. No.	Category of Consumer	Approved in Order dt. 31-03- 2022 (H1)		FY 2022-23 (H2)	FY 2022-23 (Estimated in APR)
A. LOV	N TENSION SUPPLY				
1	LTD/Domestic	1384.58	714.08	624.45	1338.53
2	LT-L.I.G (Low income Group)	1.37	0.48	0.42	0.9
3	LTC/Commercial	472.52	237.67	259.28	496.95
4	LTI/ Industrial	80.91	1.93	2.11	4.04
5	LT Mixed/ LT-P Hotel Industries	4.48	43.92	47.15	91.07



Sr. No.	Category of Consumer	Approved in Order dt. 31-03- 2022	FY 2022-23 (H1)	FY 2022-23 (H2)	FY 2022-23 (Estimated in APR)
6	Low Tension-AG/LT-AGP (Pump Sets/Irrigation)	18.08	8.16	10.34	18.5
7	Low Tension-AG/LT-AGA (Allied Activities)		0.63	0.80	1.43
8	LTPL Public lighting	29.61	29.97	17.60	47.57
9	LT Hoarding /Sign Board	0.16	0.13	0.17	0.3
B. HIG	H TENSION SUPPLY				
10	HTD Domestic		0.18	0.19	0.37
11	HT Commercial	135.02	74.24	92.16	166.4
	HTI Industrial	1499.12	826.87	868.44	1695.31
12	High Tension-Ferro/SM.PI/SR	555.35	243.95	256.21	500.16
13	High Tension-AG/HT-AGP (Pump Sets/Irrigation)		2.89	3.43	6.32
14	High Tension-AG/HT-AG (Allied Activities)	15.54	6.61	7.86	14.47
15	Military Engineering Services/defense Establishments	26.66	16.12	15.75	31.87
C. TEN	APORARY SUPPLY				
16	L.T. Temporary	9.77	1.78	2.19	3.97
17	H.T. Temporary	2.33	2.76	3.39	6.15
D. Sin	gle Point Supply				
18	Residential Complexes				
19	Commercial Complexes	5.65	2.63	3.78	6.41
20	Industrial Complexes				
	Total	4103.52	2215.01	2215.73	4430.74

The Hon'ble Commission is requested to approve the revised sales figures considered in the table above for APR of FY 2022-23 which is based on actual sales for first half of the year. The figures for energy sales for FY 2022-23 are provided in Format 5 of Tariff Filing Formats.

#### 4.4 Number of Consumers

The consumer base of Goa comprises of HT Industry, LT Industry, Commercial and Domestic consumers with the maximum number of consumers attributable to the domestic category. For FY 2022-23, EDG is submitting (H1+H2) overall projected number



of consumers in format 5 of this petition. The table below shows category wise number of consumers considered for FY 2022-23 vis-à-vis number of consumers approved by the Hon'ble Commission in tariff order for FY 2022-23.

S. No.	Category of Consumer	Approved in Order dt. 31- 03-2022	FY 2022-23 (Estimated in APR)
A. LOV	V TENSION SUPPLY		
1	LTD/Domestic	588323	563341
2	LT-L.I.G (Low income Group)	1314	903
3	LTC/Commercial	108137	108066
4	LTI/ Industrial	5799	119
5	LT Mixed/ LT-P Hotel Industries	125	5851
6	Low Tension-AG/LT-AGP (Pump Sets/Irrigation)	12634	12742
7	Low Tension-AG/LT-AGA (Allied Activities)		295
8	LTPL Public lighting	1097	6284
9	LT Hoarding /SignBoard	47	67
B. HIG	H TENSION SUPPLY		
10	HTD Domestic	3	4.00
11	HT Commercial	302	315.26
	HTI Industrial	915	807
12	High Tension-Ferro/SM.PI/SR	26	23.29
13	High Tension-AG/HT-AGP (Pump Sets/Irrigation)	47	43
14	High Tension-AG/HT-AG (Allied Activities)		3
15	Military Engineering Services/defense Establishments	14	14
C. TEN	IPORARY SUPPLY		
16	L.T. Temporary	2609	5003
17	H.T. Temporary	11	16
D. Sing	le Point Supply		
18	Residential Complexes		
19	Commercial Complexes	1	1
20	Industrial Complexes		
E	Other Categories		
21	Electric Vehicle Charging Station		2
	Total	721405	703904

#### Table 4-3: Number of Consumers for FY 2022-23 (Nos)



The Hon'ble Commission is requested to approve number of consumers for APR of FY 2022-23 as submitted in the above table. The figures for number of consumers for FY 2022-23 are provided in Format 5 of Tariff Filing Formats.

#### 4.5 Connected Load

EDG has estimated the Connected Load in line with the principles adopted for the number of consumers for entire FY 2022-23. Category wise Connected Load considered for APR of FY 2022-23 vis-à-vis Connected Load approved by the Hon'ble Commission in tariff order for FY 2022-23 dated 31<sup>st</sup> March 2022 is provided in the table given below.

S. No.	Category of Consumer	Approved in Order dt. 31- 03-2022	FY 2022-23 (Estimated in APR)
A. LOV	V TENSION SUPPLY		
1	LTD/Domestic	1808437	1787294
2	LT-L.I.G (Low income Group)	117	71
3	LTC/Commercial	407424	404213
4	LTI/ Industrial	146918	2435
5	LT Mixed/ LT-P Hotel Industries	2757	141770
6	Low Tension-AG/LT-AGP (Pump Sets/Irrigation)	52385	46060
7	Low Tension-AG/LT-AGA (Allied Activities)		2336
8	LTPL Public lighting	3212	9767
9	LT Hoarding /SignBoard	567	555
B. HIG	H TENSION SUPPLY		
10	HTD Domestic	300	400
11	HT Commercial	90575	118644
	HTI Industrial	619237	583061
12	High Tension-Ferro/SM.PI/SR	95340	111983
13	High Tension-AG/HT-AGP (Pump Setss/Irrigation)	12610	9541
14	High Tension-AG/HT-AG (Allied Activities)		2267
15	Military Engineering Services/defense Establishments	8470	8799
C. TEN	IPORARY SUPPLY		
16	L.T. Temporary	9107	7526
17	H.T. Temporary	2468	7083
D. Sing	gle Point Supply		

Table 4-4: Connected Load for FY 2022-23 (KW/ kVA)



S. No.	Category of Consumer	Approved in Order dt. 31- 03-2022	FY 2022-23 (Estimated in APR)
18	Residential Complexes		
19	Commercial Complexes	4035	2500
20	Industrial Complexes		
	Total	3263959	3246305

The Hon'ble Commission is requested to approve the Connected Load for APR of FY 2022-23 as submitted in the above table. The details of Connected Load for FY 2022-23 are provided in Format 5 of Tariff Filing Formats.

#### 4.6 Energy Requirement & T&D Loss for FY 2022-23

Inter-State Transmission Losses: PGCIL losses are on account of two regions, Western region (WR) and Southern Region (SR). The Petitioner has considered the actual transmission losses of FY 2022-23 H1 for the FY 2022-23. Accordingly, Inter-state transmission losses for FY 2022-23 have been considered as under:

Table 4-5: Inter-State Transmission Los	ses for FY 2022-23 (%)
---	------------------------

Particulars	FY 2022-23 (Approved)		FY 2022-	FY 2022-23 Revised Estimate	
	WR	SR	WR	SR	Total
Inter-State Transmission Loss (%)	3.34%	7.92%	2.89%	6.97%	3.55%

**Distribution Loss for overall FY 2022-23**: The Hon'ble Commission has approved distribution loss of 10.15% for FY 2022-23 in the Tariff Order dated 31<sup>st</sup> March 2022. For H1 of FY 2022-23 the actual distribution loss arrived at 8.11%. However, for the projections for FY 2022-23 the Provisional Distribution loss of 8.45% arrived for FY 2021-22 is considered. EDG has projected power purchase requirement for FY 2022-23 considering same Distribution Loss level of 8.45% for entire FY 2022-23.

EDG submits that, for projection of power from tied-up capacity, it has taken into consideration the H1 figures since there is no change is capacity. For projecting the energy availability for FY 2022-23, EDG has considered the actual power purchase quantum for first half of FY 2022-23 and projected the energy availability for second half of FY 2022-23.



Further, w.r.t total Power Purchase requirement for FY 2022-23, after considering projected sales and Distribution losses of 8.45%, EDG has also considered the purchase of short-term power from IEX for off peak and peak period as per FY 2022-23 and computed the sale of excess power available, respectively.

- Percentage Allocation of firm as well as of unallocated quota from the CGS has been considered as per the allocation obtained from WRPC/Comml.-I/6/Alloc/2022/10680 dated 13th October 2022 and SRPC Allocation Circular No: SRPC/SE(O)/54/UA/2022-23/ dated 28th October 2022.
- EDG submits that it has considered auxiliary consumption for each of the central generating station as per the CERC Tariff Order.
- Inter-state transmission loss of 2.89% and 6.97% considered for power purchase through western and southern region respectively as per actual.
- Based on the above assumptions, EDG has estimated the power purchase quantum from CGS stations.
- With respect to purchase/ sale of power from IEX/Traders, EDG considered the actual purchase of 68.36 MUs and sale of 158.39 MUs for FY 2022-23 H1.

EDG has also considered the power received through banking from GMR and Manikaran Power and Kreate Energy Private Limited.

To meet any shortfall, if occurs, EDG purchase power through short term (Traders). For FY 2022-23, ED-Goa has envisaged purchase of 348.84 MUs from traders/exchange at a rate of Rs. 3.89/unit depending upon the past rates.

EDG, while computing Energy Balance for entire FY 2022-23, has considered the actual over-drawl/under-drawl only during first half of FY 2022-23. Thus, based on the foregoing paragraphs, the Energy Balance for the year FY 2022-23 is shown in the table below.

Particulars	FY 2022-23 H1			FY 2022-23 H2	FY 2022-23
	WR	SR	Total	Total	Total
Energy Input at Goa Periphery	1,980.69	367.72	2,348.41	2,313.93	4,662.34
Total Power Scheduled/ Purchased at Goa Periphery					
Total Schedule Billed Drawal - CGS	1,761.68	331.53	2,093.21	1,670.45	3,763.66

Table 4-6: Energy Balance for FY 2022-23 (MUs) (Periphery-wise)



Particulars	FY	FY 2022-23 H1			FY 2022-23
	WR	SR	Total	Total	Total
Add: Overdrawal	21.23	23.76	44.98	-	44.98
Add: Power purchase from NVVN / Banking	(51.95)		(51.95)	48.33	(3.63)
Add: Power purchase from Traders	26.28	15.07	41.35	-	41.35
Add: Power purchase from / Open Market	43.45	24.91	68.36	348.84	417.20
Add : Hydro Power		-	-	-	
Less: Underdrawal	0.78	-	0.78	-	0.78
Add: Renewable Power	398.04	-	398.04	318.63	716.67
Less: Power diverted to Exchange	158.39	-	158.39	-	158.39
Total	2,039.56	395.26	2,434.82	2,386.24	4,821.06
PGCIL Losses - MUs	58.87	27.54	86.41	72.31	158.72
PGCIL Losses - %	2.89%	6.97%	3.55%	3.55%	3.55%
Total Power Purchased within Goa State			_		
Add: Co-generation	46.56		46.56	92.57	139.13
Add: Independent Power Producers (IPP)			-		
Add: Net Metering	12.89		12.89	17.11	30.00
Add: PM KUSUM	-		-		
Add: Hindustan Waste Treatement Plant	2.77		2.77	5.23	8.00
Total	62.21		62.21	114.92	177.13
Total Power Purchase availability after PGCIL Losses	2,042.90	367.72	2,410.62	2,428.85	4,839.47
Power Purchase required (MU)			2,410.62	2,428.85	4,839.47
Less: Retail Sales to Consumers	2,215.01		2215.01	2,215.73	4,430.74
Distribution Losses - MUs			195.61	213.12	408.73
Distribution Losses - %			8.11%	8.77%	8.45%



Sr.	Particulars	APR		
No.		FY 2022-23 H1	FY 2022-23 H2	FY 2022-23
A)	ENERGY REQUIREMENT			
1	Energy sales to metered category within the State	2,215.01	2,215.73	4,430.74
2	Total sales within the State	2,215.01	2,215.73	4,430.74
3	Distribution Losses (MU)	195.61	213.12	408.73
4	Distribution Losses (%)	8.11%	8.77%	8.45%
5	Energy required at Discom Periphery	2,410.62	2,428.85	4,839.47
6	Intra-State Transmission Losses	-		
7	Energy Required at State Periphery for own sale	2,410.62	2,428.85	4,839.47
8	Sales to common pool consumers	0.78	-	0.78
9	Sales outside state	158.39	0.00	158.39
10	Total Energy Requirement at State Periphery	2,251.45	2,428.85	4,680.30
B)	ENERGY AVAILABILITY			
1	Availability from firm sources outside state	2,439.30	2,037.40	4,476.70
2	Availability from UI Over-drawal/ Under-drawal	44.20	-	44.20
3	Net Purchase from open market	-48.68	348.84	300.16
5	Total Availability of Energy from outside the state	2,434.82	2,386.24	4,821.06
6	PGCIL Losses - MUs	86.41	72.31	158.72
7	PGCIL Losses - %	3.55%	3.55%	3.55%
8	Total Availability of Energy at State Periphery from outside state after Interstate Losses	2,348.41	2,313.93	4,662.34
9	Availability from firm sources inside the state	62.21	114.92	177.13
10	Total Availability of Energy for the State	2,410.62	2,428.85	4,839.47
11	Surplus / (Deficit)	-	-	-

#### Table 4-7: Energy Balance for FY 2022-23 (MUs)

The Hon'ble Commission is requested to approve the Energy Balance for FY 2022-23 as computed in the above table. The energy requirement and source wise power purchase details are discussed in subsequent paragraph. The details of energy Balance for FY 2022-23 (annual) are provided in Format 6 of Tariff Filing Formats.

#### 4.7 Power Purchase Quantum & Cost for FY 2022-23

#### Power Purchase Cost for FY 2022-23 H1:

EDG meets its total energy requirement from its allocation from the Central Generating Stations (CGS), state-based Co-generation facilities, Power Exchanges etc. EDG receives



power from CGS like NTPC and NPCIL as per allocation from time to time. The power purchases from other sources such as Co-generation has been considered as per respective PPAs. Also, Renewable Power has been procured from NVVNL, SECI and Manikaran Power, APPCPL, Net Metering and Hindustan Waste Treatment Plant.

The below table shows the summary of Power Purchase (at Goa periphery) from various sources along with their costs for H1 of FY 2022-23 including Transmission Charges, Banking, Over-drawl and purchase from traders:

Particulars	Gross Purchase	Cost	
	MUs	Rs. Cr.	
NTPC	1,970.25	713.04	
NPCIL	122.96	35.33	
IEX (Net of Purchase and Sales)	(90.03)	(22.18)	
IEX Purchase (Peak Hrs)	68.36	51.35	
IEX Sale (Off Peak Hrs)	158.39	73.53	
Traders	41.35	47.28	
Net Over drawal	44.20	38.93	
Co-Generation	46.56	10.14	
Renewable	413.69	185.66	
Transmission Charges		145.25	
Banking of Power (Net)	(51.95)	0.06	
Revenue recovered from HT Consumer for dedicated Power Purchase		33.34	
Total	2497.03	1,120.16	

#### Table 4-8: Power Purchase Summary FY 2022-23 H1

During the peak Hours in Summer season (March-May 2022) Goa was experiencing shortfall of Power to the tune of 125 MW. The shortfall of power during this deficit period was to the tune of 125 MW which was mainly met by Goa through purchase of power through IEX (through all their segment such as DAM, RTM, GDAM, TAM etc).

From the month of Mar'22, the rate on the Indian Energy Exchange during deficit Hours was Rs 12.53/kWh (Inclusive of losses & Trading Margins) since all India demand had increased due to prevalent summer season and there was a shortage of power in the country mainly due to the following reasons,



(i) High demand for domestic coal and shortage of International Coal which has increased the market clearing prices in Exchange for the Power.

(ii) Shortage of Gas due to Ukraine crisis as a result most of Gas units were under shut down or running below their capacity.

(iii) Some Thermal Plants had gone on planned or forced outage resulting in dropping the Goa's schedule from ISGS by around 40 MW.

In view of high All India Demand and due to low generation, the grid frequency was in the range of 49.60 – 49.90 Hz during the evening hours. As a result of which the Regional Load Despatch Center (RLDC) had issued directions to all the State Load Despatch Centers (SLDCs for mandatory load shedding to maintain their drawal to the schedule.

Hence due to non-clearing of bids in IEX due to exorbitantly high rate of Power i.e @ 12.53/kWh and directions from RLDCs for restricting the demand to the allocated schedule, Goa was forced to impose load restrictions on Industrial consumers to the tune of 100-125 MW depending upon the schedule.

In view of smooth functioning of the HT industries, HT consumers of Goa had insisted EDG to buy costly power from any source wherein the cost of additional sourcing cost power will be borne by them at the flat rate which will be very reasonable as compared to the power generated through the DG sets. In this regard the EDG has got the approval from the Hon'ble Commission and EDG has purchased the Power and recovered the same from the HT Consumers of Rs. 33.34 Crore.

EDG procured power from GMR where the power was arranged through banking arrangement for compliance of Hydro Purchase Obligation for FY 2022-23. Accordingly, EDG complied the HPO target with surplus of 0.83 MUs.

The source wise details of Power Purchase Quantum and its cost are covered in Format 3 of the Tariff Filing Formats.

EDG on a real time basis has also overdrawn/ under drawn power from grid. Reactive charges have been adjusted in the over-drawl and under-drawl charges. The details of the same for FY 2022-23 H1 are provided in the table given below:

Decien	Over drawal		Under drawal		Net Drawal	
Region	Rs. Crore	MUs	Rs. Crore	MUs	Rs. Crore	MUs
April	22.04	19.12	0.00	0.00	22.04	19.12
May	4.82	7.14	0.09	0.47	4.74	6.66

Table 4-9: DSM Power (Over-drawl & Under-drawl) Charges for H1 of FY 2022-23



Decien	Over drawal		Under drawal		Net Drawal	
Region	Rs. Crore	MUs	Rs. Crore	MUs	Rs. Crore	MUs
June	3.61	4.50	0.00	0.00	3.61	4.50
July	5.32	8.85	0.00	0.00	5.32	8.85
August	1.83	3.02	0.00	0.00	1.83	3.02
September	1.48	2.34	0.08	0.31	1.40	2.04
Total	39.09	44.98	0.17	0.78	38.93	44.20

**Transmission Charges for FY 2022-23 of H1**: The transmission charges for the H1 of FY 2022-23 comprises of transmission charges for Western Region and Southern Region. The Transmission charge comes to around Rs. 145.25 Cr. The same is considered for FY 2022-23 H2 resulting in Rs.290.50 Cr.

**Power Purchase Fixed Cost for FY 2022-23**: As CERC has still not issued the Order for most of the Plant, ED-Goa has considered actual fixed charges paid to the plant in H1 of FY 2022-23 to arrive at the revised projections of base year FY 2022-23 for respective Central Generating Stations.

**Power Purchase Variable Cost for FY 2022-23**: The Petitioner has considered the average of actual per unit variable costs for FY 2021-22 and escalated the same with 7 % for the revised projections of FY 2022-23.

## Power Purchase from Renewable Energy Sources:

**Solar RPO:** In order to meet the Solar RPO, EDG in FY 2022-23 would purchase renewable energy from SECI, NVVNL and through STOA from APPCPL & Manikaran.

**Non-Solar RPO:** To meet Non-Solar RPO, EDG has planned to procure power from SECI, Manikaran, Hindustan Waste Treatment Plant and APPCL on short term basis.

EDG submits that it would be able to meet Solar and Non-Solar RPO in FY 2022-23 (as per the Power purchase projections) of the applicable Solar and Non-Solar RPO target. EDG submits shortfall if any, the same shall me met through REC to fulfil its shortfall.

However, the details of the Solar and Non-Solar RPO Status for FY 2022-23 as per the Power Purchase considered are given in the table below:

#### Table 4-10: Solar & Non-Solar RPO Status for FY 2022-23

S.No	Description	Unit	Revised Projections	
			FY 2022-23	



S.No	Description	Unit	Revised Projections
			FY 2022-23
1	Sales Within State	MUs	4241.87
2	<b>RPO Obligation</b>	%	18.35
	- Solar	%	9.00
	- Non Solar	%	9.00
	HPO	%	0.35
3	<b>RPO Obligation</b>	MUs	
	- Solar	MUs	381.77
	- Non Solar	MUs	381.77
	НРО	MUs	14.85
4	Power Purchase	MUs	770.34
	- Solar	MUs	314.43
	- Non Solar	MUs	440.24
	HPO	MUs	15.68

# Table 4-11: RPO & REC Status for FY 2022-23

Particulars	Approved in Order dated 31-03-2022	Revised Projections FY 2022-23
Sales within State (MU)	4241.87	4241.87
Hydro Power available at State Periphery (MU)		
T&D Losses		
Resultant Energy Sales for calculation of RPO (after adjustment of power from hydro sources) (MU)		
RPO Obligation (in %)	18.35%	18.35%
Solar	9.00%	9.00%
Non-Solar	9.35%	9.35%
RPO Obligation for the year (in MU)	778.38	778.38
Solar	381.77	381.77
Non-Solar	396.61	396.61
RPO Compliance (Physical Power available at		
Consumer Periphery after adjusting Inter-State	776.40	754.67
Transmission and Intra-State T&D Loss		
Solar	367.77	314.43
Non-Solar	408.63	440.24



Particulars	Approved in Order dated 31-03-2022	Revised Projections FY 2022-23
Total RPO compliance (REC Certificates to be purchased)	14.00	67.34
Solar	14.00	67.34
Non-Solar	-	
Total RPO compliance (Physical Power Plus REC)	391.41	822.01
Solar	344.30	381.77
Non-Solar	47.10	440.24

# Power Purchase Cost for FY 2022-23:

In line with the foregoing paragraphs, the total estimated Power Purchase Quantum & Cost for FY 2022-23 as well as that approved by the Hon'ble Commission in Tariff Order dated 31<sup>st</sup> March 2022 is summarized in the table below:

	Approved in	Tariff Order	31-03-2022	Revised Projections for FY 2022-23			
Particulars	Gross Purchase	Cost	Rate	Gross Purchase	Cost	Rate	
	MUs	Rs.Cr.	Rs./kWh	MUs	Rs.Cr.	Rs./kWh	
NTPC	3445.35	1,124.26	3.26	3574.89	1357.66	3.62	
NPCIL	215.19	67.22	3.12	188.77	48.64	2.87	
IEX (Net of Purchase and Sales)	139.59	60.32	4.32	258.81	113.55	2.46	
IEX Purchase (Peak Hrs)	139.59	60.32	4.32	417.20	187.08	7.51	
IEX Sale (Off Peak Hrs)				158.39	73.53	4.64	
Traders				41.35	47.28	11.43	
Net Overdrawal				44.20	38.93	8.88	
Co-Generation	149.79	35.95	2.40	139.13	32.35	2.18	
Renewable	776.40	325.64	4.19	754.67	334.33	4.49	
Transmission		226.15			290.50		
Banking of Power (Net)				-3.63	0.29		
Revenue recovered from HT Consumer for dedicated Power					33.34		
Purchase							
Total	4726.31	1839.54	3.89	4,998.19	2,230.19	4.46	

 Table 4-12: Power Purchase Summary for FY 2022-23



It is submitted that net power purchase at state periphery after losses is 4,662.34 MU with total power purchase cost of Rs. 2230.19 Cr. and the average power purchase cost works out to Rs. 4.46/kWh against approved net power purchase cost of Rs. 3.89/kWh for FY 2022-23.

The power purchase details for entire FY 2022-23 are provided in Tariff Filing Format -3.

It is requested to the Hon'ble Commission to approve the power purchase cost including transmission charges for FY 2022-23 as detailed in tables given above.

## 4.8 Operation & Maintenance Expenses

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

- Employee expenses
- Administrative and General
- Repairs and Maintenance Expenses

Employee Expenses for FY 2022-23:

Actual employee expense for FY 2022-23 H1 is Rs. 233.44 Cr. EDG has projected normative Employee Expenses for FY 2022-23 H2 at Rs. 175.27 Cr.

The Provisional Actual Employee expenses of FY 2022-23 H1 with the projection FY 2022-23 as per the regulations are provided in the following:

			FY 2022-23			
	S.No	Particulars	Actual (H1)	Projection (H2)	Estimated	
Α		Employee Cost (Other than covered in 'C'&'D')				
	1	Salaries	159.83	120.00	279.83	
	2	Dearness Allowance (DA)	18.13	13.62	31.75	
	3	Other Allowances+ HRA	32.38	24.31	56.69	
	4	Interim Relief / Wage Revision				
	5	Overtime				
	6	Bonus				
	7	Generation Incentive				
	8	Any Other Item (specify)				
		Sub Total				
В		Other Costs				
	1	Medical Expenses Reimbursement	2.89	2.17	5.05	
	2	Travelling Allowance (Conveyance Allowance)	7.56	5.68	13.23	
	3	Leave Travel Assistance				

## Table 4-13: Actual and Projected Employee expenses of FY 2022-23 (Rs. Crore)



				FY 2022-23			
	S.No	Particulars	Actual (H1)	Projection (H2)	Estimated		
	4	Payment Under Workman's Compensation Act					
	5	Electricity Concession to Employees					
	6	Other Staff Welfare Expenses					
	7	Any Other Item (specify)					
		Sub Total					
С	1	Apprentice and Other Training Expenses					
D		Contribution to Terminal Benefits					
	1	Earned Leave Encashment					
	2	Provident Fund Contribution(NPS)	12.65	9.50	22.15		
	3	Provision for PF Fund					
	4	Pension					
	5	Gratuity					
	6	Ex-gratia					
	7	Any Other Item (specify)					
		Sub Total					
Ε		Grand Total (A+B+C+D)	233.44	175.27	408.71		
F		Employee Expenses Capitalized					
G		Net Employee Expenses (E)-(F)	233.44	175.27	408.71		

# A&G Expenses:

The Provisional Actual A&G expenses of FY 2022-23 H1 with the projection FY 2022-23 as per the regulations are provided in the following:

## Table 4-14: Actual and Projected A&G expenses for FY 2022-23 (Rs. Crore)

S.No		Particulars	FY 2022-23			
			Actual (H1)	Projection (H2)	Estimated	
	1	Lease/ Rent	0.46	0.65	1.11	
	2	Insurance				
	3	Revenue Stamp Expenses Account				
	4	Telephone, Postage, Telegram & Telex Charges				
A.	5	Incentive & Award to Employees/Outsiders				
	6	Consultancy Charges				
	7	Technical Fees				
	8	Other Professional Charges	0.45	0.63	1.08	



S.	No	Particulars	FY 2022-23			
			Actual (H1)	Projection (H2)	Estimated	
	9	Conveyance and Travelling Expenses	0.19	0.27	0.46	
	10	License and Registration Fees				
	11	Vehicle Expenses (Other Than Trucks and Delivery Vans)				
	12	Security / Service Charges Paid to Outside Agencies				
		Sub Total 'A' (1 to 12)	1.10	1.55	2.65	
	1	Fee and Subscription for Books and Periodicals				
	2	Printing and Stationery Expenses				
	3	Advertisement Expenses (Other than Purchase Related) Exhibition & Demo.	0.12	0.17	0.29	
Other Charges	4	Contributions/Donations to Outside Institutes / Associations				
С	5	Electricity Charges of Offices				
her	6	Water Charges				
	7	Entertainment Charges				
ъ.	8	Miscellaneous Expenses (specify details)				
		Office expenses 10.55	14.84	25.39	26.89	
		Other Charges	2.09	2.94	5.03	
		minor works	0.16	0.23	0.39	
		Sub-Total 'B' (1 To 8)	12.92	18.18	31.10	
(	2.	Legal Fee/Charges				
[	<b>)</b> .	Auditor's Fee				
	1	Freight on Capital Equipments				
ses	2	Purchase Related Advertisement Expenses				
Sen	3	Vehicle Running Expenses Truck / Delivery Van				
E. Material Related Expenses	4	Vehicle Hiring Expenses Truck / Delivery Van				
ted	5	Other Freight				
elat	6	Transit Insurance				
l R	7	Octroi				
eria	8	Incidental Stores Expenses				
Иat	9	Fabrication Charges				
ш Ш		minor works				
		Sub Total 'E' (1 To 9)	0.00	0.00	0.00	
	F.	Direction And Supervision Charges				



S.No	Particulars		FY 2022-23		
			Actual (H1)	Projection (H2)	Estimated
G.		Annual License fee and tariff determination fee payable to JERC			
	Grand Total (A To G)	Total Charges	14.02	19.72	33.74
н.	Total Charges	Capital Works (-)			
п.	Chargeable To	Revenue Expenses			

R&M Expenses:

The Provisional Actual Repair and Maintenance expenses of FY 2022-23 H1 with the projection as per the EDG for the FY 2022-23 H2 are provided in the following:

Table 4-15: Actual and Projected R&M expenses	for FY 2022-23 (Rs. Crore)
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	FY 2022-23				
S.No.	Particulars	Actual (H1)	Projection H2	Estimated	
1	Plant and Machinery	22.40	16.80	39.20	
	- 220 kV Sub-Station				
	- 110 kV Sub-Station				
	- 33kV Sub-Station				
	- 11kV Sub-Station				
	- Switchgear and cable				
	connections				
	- Others	0.09	0.07	0.16	
2	Building	1.45	1.09	2.53	
3	Civil Works				
4	Hydraulic Works				
5	Lines, Cables, Networks etc.				
	- 220 kV Sub-Station				
	- 110 kV Sub-Station				
	- 33kV Lines				
	- 11kV Lines				
	- LT Lines				
	- Others				
6	Vehicles	7.25	5.44	12.68	
7	Furniture and Fixtures				
8	Office Equipments				
9	Station Supplies				
10	Metering Equipments				
11	Any Other Item	0.02	0.02	0.04	
А	Gross R&M Expenses	31.21	23.41	54.62	



		FY 2022-23           Actual (H1)         Projection H2         Estimate		
S.No.	Particulars			Estimated
В	R&M Expenses Capitalised			
12	Net R&M Expenses	31.21	23.41	54.62

O&M Expenses Summary FY 2022-23:

The O&M Expenses is based on the H1 (Actual) and H2 Projection based on the Total expected expenses as per the Accounts dept. The O&M expenses for the FY 2022-23 visa-vis that approved by the Hon'ble Commission is shown in the table below:

Particulars	Approved in Tariff order dated 30-03- 2022	H1 Actual	H2 Projection	Revised Projections FY 2022-23
Employee Expenses	344.56	233.44	175.27	408.71
A&G Expenses	34.06	14.02	19.72	33.74
R&M Expenses	55.33	31.21	23.41	54.62
Total O&M Expenses	433.95	278.67	220.39	499.06

Table 4-16: O&M Expenses for FY 2022-23 (Rs. Cr.)

The Hon'ble Commission is requested to approve the O&M Expenses as shown in the table above.

## 4.9 Capital Expenditure and Capitalization

EDG submits that it has considered the Capex & Capitalization for FY 2022-23 as per revised projection as submitted in formats along with the Petition. The Capital Investment, Capitalization, Capital Work in Progress (CWIP) and Gross Fixed Asset (GFA) for FY 2022-23 are discussed hereunder as:

Capital Investment and Capitalization during FY 2022-23:

EDG submits that the Gross Block considered in FY 2022-23 is based on audited figure of FY 2020-21 and further addition based on the provisional values of capital investment and capitalisation for FY 2021-22. The EDG has differed few projects tendered for FY 2022-23 to FY 2023-24.

EDG hereby submits a gist on the Capital Expenditure & Capitalization for FY 2022-23:



## Table 4-17: Capital Expenditure & Capitalisation for FY 2022-23 (Rs. Cr.)

		FY 2022-23				
S.No	Name of scheme	Δ	pproved	Revised Estimates		
		CAPEX	CAPITALISATION	CAPEX	CAPITALISATION	
Existin	ng Schemes					
A1	Schedule Tribe Development Scheme (P)			41.24	65.70	
A2	Infrastructure development through Electricity Duty (Plan)	107.78	156.78	142.04	103.74	
A3	Erection and Augmentation of 33/11 KV S/S line (Plan)			5.00	5.00	
A4	Normal Development Schemes (Plan)	6.00	11.00	6.00	6.00	
A5	System Improvement Schemes (Plan)			33.77	31.30	
A6	Construction of staff quarters and office buildings (Plan)	0.50	0.12	2.00	2.00	
A7	Strengthening of 220 KV Transmission Network			11.74	11.74	
A8	Erection of 220/110/33/11 KV Sub-Station at Verna (New)			-	-	
A9	Restructured Accelerated Power Development and Reforms Programme Part A			10.00	-	
A10	Underground Cabling		19.95	162.10	54.54	
A11	R-APDRP Part B / IPDS	15.00	22.00	2.00	18.00	
A12	EHV new Transmission / Sub-Station / Capacitor banks schemes			-	-	
B1	Smartgrid Development of existing network			-	-	
B2	Sub-transmission and distribution improvement scheme			79.00	89.00	
	Total	128.28	209.85	494.89	387.22	
New S	chemes					
Projec	ts with Administrative approval	86.42	86.42	21.00	-	
Projec	ts Approved by EFC	387.34	387.34	54.00	-	
Projec	ts tendered (To start next year)	103.94	83.94	37.40	14.40	
REVAN	MPED Distribution Projects					
1	Smart Meter and AMI	10.00		-	-	
2	SCADA upgradation, cabling connection, infra development, modernization	225.00		-	-	



		FY 2022-23				
S.No	Name of scheme	Approved		Revised Estimates		
		CAPEX	CAPITALISATION	CAPEX	CAPITALISATION	
З	Training and Placement	20.00		-	-	
	Total	255.00	130.00	-	-	
Other	Schemes					
1	Saligao 3/63 MVA 220X33 kV S/s at Saligao &					
T	Associated D/C Lines			-	-	
2	Verna 220/110/33 kV			-	-	
3	Upgradation of PONDA EHV S/s project			5.00	-	
4	Tuem Project			20.00	-	
5	Over Head to Underground Cuncholim					
5	Conocona			-	-	
6	Xeldom S/s (220/33 63 MVA T/F)			-	-	
	Total			25.00	-	
Depos	Deposit Works					
	Deposit Works	35.37	53.37	22.9	21.27	
Grand	Total	997.35	950.92	655.19	422.89	

As seen from the above table, the total Capital Expenditure and Capitalization estimated for FY 2023-23 as per estimates is Rs. 632.29 Cr. and Rs. 401.62 Cr. respectively without deposit works. The detail of capital expenditure schemes for FY 2022-23 is provided in the Format (Capex & Capitalisation FY 2022-23) of Tariff Filing Formats.

The details of opening Capital Works-in-Progress, investments during the year and investments capitalised for the year are summarized in the table below:

Table 4-18: CWIP	for FY	2022-23	(Rs. Cr.)
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Particulars	Revised Projections FY 2022-23
Opening Balance	1,009.85
Add: New Investments	632.29
Total	1642.14
Less: Investment Capitalized	401.62
Other Entries in CWIP	0.00
Closing Balance	1,240.52



Opening and Closing GFA for FY 2022-23

EDG submits that the opening and closing balance of GFA for FY 2022-23 onwards has been arrived at after considering the provisional capitalization for the period FY 2021-22 and estimated capitalization for FY 2022-23. The computation of the same is provided in the table given below.

Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
Opening GFA	1,274.13	1,398.63	1,443.85	1,566.39
Addition	127.18	50.86	165.19	401.62
Retirement	2.68	5.63	3.17	
Closing GFA	1,398.63	1,443.85	1,566.39	1,968.01

Table 4-19:	Opening	& Closing	<b>GFA</b> for FY	2022-23
10010 4 101	opening		0.7.10111	2022 20

EDG also submits that Opening and Closing GFA for FY 2022-23 after excluding the assets created from Electricity Duty and Grants in the following table:

Table 4-20: Opening & Closing GF	A (excl. ED and Grant) for FY 2022-23
----------------------------------	---------------------------------------

Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
Opening GFA (Excl. Grand & ED)	1068.37	1107.15	1136.00	1,212.86
GFA Addition during the year	127.18	51.90	165.19	401.62
Less: 60% and 75% Grant Component of APDRP Part-B / IPDS Scheme	16.78	2.74	28.88	10.80
Less: Schemes out of ED Fund	68.94	14.68	59.45	114.74
Net GFA addition during the year	41.46	34.48	76.86	276.08
Less: Retirement	2.68	5.63		
Opening GFA (Excl. Grant & ED)	1107.15	1136.00	1,212.86	1,488.94

Regulation 31.4 of JERC MYT Regulation 2021 states that,

"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."

Accordingly, the opening & closing balance of GFA from FY 2022-23 onwards has been arrived at after reduction of accumulated depreciation as on 1st April 2022 and accordingly, the details of the Net Fixed Assets for FY 2022-23 are provided in the table below:

Particulars	FY 2021-22	FY 2022-23
Opening NFA net of Accumulated Depreciation	1119.93	1178.42
Addition	58.49	276.08
Retirement		
Closing GFA	1178.42	1454.50

#### Table 4-21: Opening & Closing GFA (Net of Accumulated Depreciation) for FY 2022-23

## 4.10 Depreciation for FY 2022-23

Regulation 31.7 of the JERC MYT Regulations, 2021 provides for depreciation to be calculated as specified below:

"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."

Regulation 31.1 of the JERC MYT Regulations, 2021 provides for depreciation to be calculated as specified below:

"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."

As per the above said Regulation, the depreciation shall not be allowed on assets funded through capital subsidies, consumer contribution or grants. Accordingly, average GFA excluding grant and electricity duty works out as Rs. 1,178.42 Cr is derived. Hence



depreciation towards GFA excluding grant & electricity duty works out as Rs. 58.92 Cr. in proportion with GFA excluding grant & electricity duty to total average GFA. The table below shows the working of Depreciation considered in ARR for FY 2022-23.

Particulars	Revised Projections FY 2022-23
Opening Gross Fixed Assets (excluding Grants/ consumers Contribution etc)	1178.42
Add: Gross Asset Addition	401.62
Less: Contribution from Subsidies/ Grants/ Beneficiaries' Contribution / Consumers Contribution	125.54
Value of Asset eligible for depreciation	276.08
Add: Addition During the Year	276.08
Less: Decapitalisation	-
<b>Closing Gross Fixed Assets</b> (excluding Grants/ consumers Contribution etc.)	1454.50
Average Gross Fixed Assets (excluding Grants/ consumers Contribution etc.)	1316.46
Depreciation	58.92
Wt. Avg Rate of Depreciation	4.48%

## Table 4-22: Depreciation for FY 2022-23 (Rs. Cr.)

The detail of GFA & Depreciation for FY 2022-23 is provided in the Format 15 of Tariff Filing Formats respectively. The Hon'ble Commission is requested to approve the depreciation for the year for FY 2022-23.

## 4.11 Interest & Finance Charge

EDG submits that the Regulations 29.1 & 29.2 of the JERC MYT Regulations, 2021 specifies that:

"29.1 The loans arrived at in the manner indicated in Regulation 27 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-capitalisation 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 decapitalized or retired or replaced assets, based on documentary evidence.

Provided further that in case of De-capitalisation 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 decapitalized or retired or replaced assets, based on documentary evidence."

EDG submits that as per Regulation 27.2 of JERC MYT Regulations, 2021, if the actual equity 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. Extract of the relevant Regulation is reproduced as under:

# "27 Debt to Equity Ratio

••••••

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 23, 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"

EDG submits that most capital assets are created out of the equity contribution from Government of Goa and the actual borrowing of loan is only to the extent of the APDRP schemes. EDG has computed loan balance and interest on loan as per normative principles and methodology adopted by the Hon'ble Commission in past orders.

EDG doesn't have any actual loan in EDG's Books of Accounts, hence normative loan is calculated in line with above mentioned regulations. The Hon'ble Commission has approved normative loan as on 31st March 2017 in final true up of FY 2016-17. The same normative loan balance has considered as opening balance for FY 2017-18, and normative loan addition is calculated at 70% of the GFA excluding grant and electricity duty fund contribution till 31st March 2022. The same balance is carried forward as opening normative loan for FY 2022-23. Further during FY 2022-23, addition of net GFA (excluding grant and electricity duty) is added. Normative loan repayments are considered same as depreciation amount excluding in proportion of grant and electricity



duty for FY 2022-23. The rate of Interest for long term Interest rate has been considered at the rate of 8.00% including 100 basis points as per one-year SBI MCLR Interest rate applicable as on 1st April relevant financial year, i.e. 01st April 2022 in this regard. It is requested to Hon'ble Commission to approve Interest on Loan on normative principles.

EDG has not considered the Letter of Credit charges for payment security charges as directed by the Hon'ble Commission, as the same will be considered at the time of true up.

Particulars	Approved in Order dt. 31-03-2022	Revised Projections FY 2022-23
Opening Normative Loan	223.50	267.37
Add: Normative Loan during the year/GFA during the year	162.08	193.26
Less: Normative Repayment for the year	52.64	58.92
Closing Normative Loan	332.94	401.71
Average Normative Loan	278.22	334.54
Rate of Interest	8.00%	8.00%
Interest on Normative Loan	22.26	26.76

## Table 4-23: Interest & Finance Charges for FY 2022-23 (Rs. Cr.)

The Hon'ble Commission is requested to approve the Interest & Finance Charges for FY 2022-23 as shown in the above table. The details of Interest & Finance charges are provided in Format 12 of the Tariff Filing Formats.

## 4.12 Interest on Working Capital

As per Regulation 63.1 of the JERC MYT Regulations, 2021, Interest on Working Capital for retail supply activity of the licensee shall consist of:

- O&M Expenses for one (1) month;
- Maintenance spares at 40% of repair and maintenance for one month;
- Receivables equivalent to two (2) months of the expected revenue from consumers at prevailing tariff;
- Less: Consumer security deposit but excluding bank guarantee/ fixed deposit receipt.

Regulation 32.4 of the JERC MYT Regulations, 2021 specifies as below:

"32.4 The rate of interest on working capital shall be equal 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 Financial Year in which the Petition is filed plus 200 basis points"

The Interest Rate is considered equivalent to the SBI base Rate available as on 01st April 2022 for FY 2022-23 which is at 7.00% plus 200 basis points which works out to be 9.00%.

In line with the aforesaid regulation, the detailed computation of Interest on Working Capital for FY 2022-23 is provided in the table below:

For Wheeling Business				
S. No.	Particulars	Ref. Form No.	• • • • • • • • • • • • • • • • • • • •	
NO.		NO.	FY 2022-23	
A)	O&M Expenses for Wire Business			
i)	R&M Expenses	_	49.16	
ii)	A&G Expenes	_	16.87	
iii)	Employee Cost	_	163.48	
iv)	Total O&M Expenses		229.52	
v)	O&M Expenses for wire business for 1 month		19.13	
В	Maintenance Spares (@ 40% of R&M Expenses)		1.64	
С	Receivables equivalent to two (2) month of the	Fixed		
	expected revenue from charges for use of	Charges	47.34	
	Distribution Wires at the prevailing tariffs.			
D	Less: Amount, if any, held as security deposits from		9.96	
	Distribution System Users		5.50	
E	Total Working Capital (A (v)+B+C-D)		58.15	
F	Rate of Interest		9.00%	
G	Interest on Working Capital		5.23	

#### Table 4-25: Interest on Working Capital for FY 2022-23 for Supply Business (Rs. Cr.)

For Ret	For Retail Supply Business				
S. No.	Particulars	Ref. Form	APR		
		No.	FY 2022-23		
A)	O&M Expenses for Retail Supply Business				
i)	R&M Expenses	_	5.46		
ii)	A&G Expenes	_	16.87		
iii)	Employee Cost	_	245.23		
iv)	Total O&M Expenses		267.56		
v)	O&M Expenses for retail supply business for 1 month		22.30		



For Retail Supply Business				
S. No.	No. Particulars	Ref. Form	APR	
		No.	FY 2022-23	
В	Maintenance Spares (@40% of R&M Expenses for Retail Supply Business)		0.18	
C	Receivables equivalent to 2 months of average of total	Energy		
	revenue from sale of energy, approved by Commission	Charges	360.63	
	in the ARR			
D	Less: Consumer Security Deposit		89.63	
E	Less: One month of power procurement cost		185.85	
F	Total Working Capital (A (v) + B + C - D -E)		107.62	
G	Rate of Interest		9.00%	
Н	Interest on Working Capital		9.69	

The Hon'ble Commission is requested to approve the Interest on Working Capital as presented in the table above. The details of Interest on Working Capital for FY 2022-23 are provided in Format 14 of the Tariff Filing Formats.

## 4.13 Interest on Consumer Security Deposit

As per the Regulation 5.135 of Electricity Supply Code Regulations, 2018 and subsequent amendment dated 25th March 2019:

"The Licensee shall pay interest to the consumer at the Bank Rate declared by the Reserve Bank of India prevailing on the 1st of April for the year, payable annually on the consumer's security deposit with effect from date of such deposit in case of new connections energized after the date of this notification, or in other cases, from the date of notification of this Supply Code, 2018. The interest accrued during the year shall be adjusted in the consumer's bill for the first billing cycle of the ensuing financial year. If the Security Deposit is submitted in the form of Bank Guarantee or by providing lien against fixed deposits, no interest shall be payable to the consumer."

Regulation 28.11 of the JERC MYT Regulations, 2021 specifies as follows :

"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."

The provision of interest on security deposits is to be made at the bank rate. The interest rate considered is 4.25% which is RBI Bank rate as on 01st April 2022.

In view of the above, Interest on Security Deposit is calculated at Rs. 3.96 Cr. (FY 2022-23 H1) and Rs. 4.23 Crore (FY 2022-23) on cash security deposit amounts excluding Bank Guarantee & Fixed Deposit Receipts based on the regulation stated above.

The table below shows details of Interest on Security Deposit for FY 2022-23:

Particulars	Approved in Order dt. 31- 03-2022	Revised Projections FY 2022-23
Opening Security Deposit	77.02	86.60
Net Additions during the year	15.65	26.68
Less: Deposits Refunded	0.37	0.71
Closing Security Deposit	92.31	112.58
Average Security Deposit	84.67	99.59
Rate of Interest (%)	4.25%	4.25%
Interest on Security Deposit	3.60	4.23
Cumulative Interest on Security Deposit including Past Years		31.29
Interest on Security Deposit Paid		5.36
Balance Interest on Security Deposit to be Paid		0.00

#### Table 4-26: Interest on Security Deposit for FY 2022-23 (Rs. Cr.)

The Hon'ble Commission is requested to approve the Interest on Security Deposit for FY 2022-23 as detailed in the above table.

#### 4.14 Return on Equity

Regulation 28.2 & 28.3 of the JERC MYT Regulations, 2021 specifies that:

"28.2 The return on equity for the Distribution Wires Business shall be allowed on the equity capital determined in accordance with Regulation 26 for the assets put to use at post-tax rate of return on equity specified in the prevalent CERC Tariff Regulations for transmission system.



# 28.3 The return on equity for the Retail Supply Business shall be allowed on the equity capital determined in accordance with Regulation 26 for the assets put to use, at the rate of sixteen (16) per cent per annum."

In line with the above regulation and the methodology proposed in the JERC MYT Regulations, 2021, EDG has calculated the Return on Equity as outlined in the following table for FY 2022-23.

The opening balance of assets and accumulated depreciation are considered as per audited account of FY 2019-20 and further provisional actual numbers used to arrive at the opening balance for FY 2022-23.

Further normative equity addition during the year is considered 30% of the net GFA addition excluding proportion of grant and electricity duty as computed provided below:

The table below shows calculation of Return on equity for FY 2022-23:

Further normative equity addition during the year is considered 30% of the net GFA addition excluding proportion of grant and electricity duty as computed in format 16.

	Particulars	FY 2022-23		
S. No		Approved in	Revised	
		Order dt. 31-	Projections	
		03-2022	FY 2022-23	
1	Opening Balance of Equity	379.16	346.08	
2	Net Additions during the Year	69.46	82.82	
3	Closing Balance of Equity	448.62	428.91	
4	Average Equity	413.89	387.50	
5	Average Equity (Wires Business)	372.50	348.75	
6	Average Equity (Retail Supply Business)	41.39 38.		
7	Rate of Return on Equity for Wire Business %	15.50%	15.50%	
8	RoE Wire Business	57.74	54.06	
9	Rate of Return on Equity for Retail Supply Business	16.00%	16.00%	
5	%	10.0076	10.0070	
10	RoE on Retail Supply business	6.62	6.20	
11	RoE (Wire and Retail Supply business)	64.36	60.26	

Table 4-27: Return on Equity for FY 2022-23 (Rs. Cr.)

The Hon'ble Commission is requested to approve the Return on equity for FY 2022-23 as shown in the table above. The details of Return on Equity for FY 2022-23 are provided in Format 16 of the Tariff Filing Formats.



## 4.15 Non-Tariff Income

Non-Tariff Income comprises of proceeds from sale of dead stock, wastepaper, receipt from State Electrical Inspectorate and other miscellaneous receipts. The Non-Tariff Income for the year FY 2022-23 is estimated to be Rs. 29.36 Cr.

		Approved		Projection	
S. No.	Particulars	in Order	FY 2022-23	FY 2022-23	FY 2022-23
		dt. 31-03- 2022	Actual (H1)	Projection (H2)	Estimated
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		3.89	17.7	21.59
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	Sale Proceeds of dead stock, waste paper etc		2.53	5.24	7.77
16	Any other Income not included above Total	20.78	6.42	22.94	29.36

## Table 4-28: Non-Tariff Income for FY 2022-23 (Rs. Cr.)

The details of Non-Tariff Income for FY 2022-23 are provided in Format 21 of the Tariff Filing Formats.



#### 4.16 Aggregate Revenue Requirement for FY 2022-23

Based on the submissions made in the foregoing paragraphs, the net Aggregate Revenue Requirement for the year FY 2022-23 and the revenue gap is shown in the table below:

Sr. No.	Particulars	Approved in ARR dt. 31- 03-2022	Estimated
•	Provide to		FY 2022-23
<b>A</b>	Receipts	2024.02	2 5 6 5 70
1	Revenue from Sale of Power	2024.02	2,565.79
В	Expenditure		
1	Cost of Power Purchase from Own Generating Stations		-
2	Cost of Power Purchase from other Generating Stations	1,613.38	2,230.19
3	Inter State Transmission Charges	226.15	-
4	Intra State Transmission Charges		-
5	SLDC Fees & Charges		-
6	O&M Expenses (Gross)	433.95	497.08
	a) R&M Expenses		54.62
	b) Employee Cost		408.71
	c) A&G Expenses		33.74
7	Depreciation	52.64	58.92
8	Interest and Finance Charges	22.26	26.76
9	Interest on Working Capital	18.13	14.92
10	Prior Period Expenses		-
	Interest on Consumer Security Deposit	3.60	5.36
11	Extraordinary Items		-
12	Bad and Doubtful Debts		-
13	Other Debts and Write-offs		-
14	Statutory Levies and Taxes, if any		-
15	Less: Expenses Capitalised		
	a) Interest Charges Capitalized		-
	b) R&M Expenses Capitalized		-
	c) A&G Expenses Capitalized		-
	d) Employee Cost Capitalized		-
	Sub Total (a+b+c+d)		-
	Sub Total Expenditure (1 to 14-15)		2,833.23
		64.20	<u> </u>
С	Return on Equity	64.36	60.26

Table 4-29: Aggregate Revenue Requirement for FY 2022-23 (APR) (Rs. Cr.)



Sr. No.	Particulars	Approved in ARR dt. 31- 03-2022	Estimated FY 2022-23
D	Less: Non Tariff and other Income	26.32	29.36
E	Less: Any Grant/ Subventions, other subsidy provided by the Government		-
F	Annual Revenue Requirement (B+C-D-E)	2,408.15	2,864.13
G	Revenue Gap 'Surplus(+) / Shortfall (-) (A-F)	-384.13	-298.33

The Hon'ble Commission is requested to approve the net Aggregate Revenue Requirement for FY 2022-23 as described in the above table.

## 4.17 Revenue from Retail Sale of Power

EDG has billed the consumers based on the tariff approved for FY 2022-23. The revenue for H1 (April to September) is Rs.1047.40 Crore against sale of 2215.01 MUs. The overall revenue from sale of power for FY 2022-23 computes to Rs. 2125.94 Cr. for sale of 4430.74 MU and Hon'ble Commission is requested to approve the same. The category wise computation of revenue is represented in the table given below:

SI. No.	Category	Revenue for FY 2022-23 from approved retail tariff determined by Commission (In INR Cr) FY 2022-23 Full year revenue (Rs. Crore)				tariff determined by Commission (In INR Cr) FY 2022-23 (In INR Cr) FY (In INR Cr) Full year			xisting re ned by Cc IR Cr) FY 2 year ue (Rs.	tail tariff mmission
		Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Billing Rate (Rs/kWh)	Sales in MU	Total	Billing Rate (Rs/kWh)	
1	Domestic	1386.33	36.93	361.03	397.96	2.87	1339.81	369.58	2.76	
(i)	LT-D Domestic	1384.58	36.89	360.84	397.74	2.87	1338.53	369.35	2.76	
	0-100 units	544.79	11.8	87.17	98.96	1.82	484.47	81.55	1.68	
	101-200 units	331.54	9.07	77.91	86.98	2.62	315.46	76.45	2.42	
	201-300 units	175.22	6.17	51.69	57.86	3.3	181.19	55.42	3.06	

#### Table 4-30: Revenue from Sale of Power for FY 2022-23 (Rs.Cr.)



			Revenue for FY 2022-23 from approved retail tariff determined by Commission (In INR Cr) FY 2022-23					Revenue for FY 2023-24 from existing retail tariff determined by Commission (In INR Cr) FY 2023-23		
SI. No.	Category	Ful	l year rever	nue (Rs. Cro	ore)	Average	revenu	year ue (Rs. pre)	Average	
		Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Billing Rate (Rs/kWh)	Sales in MU	Total	Billing Rate (Rs/kWh)	
	301-400 units	96.5	3.48	37.64	41.12	4.26	106.12	42.26	3.98	
	Above 400 units	236.53	6.38	106.44	112.82	4.77	251.29	113.67	4.52	
(ii)	Low Income Group	1.37	0	-	0	0.02	0.90	0.00	0.02	
(iii)	HT-D Domestic	0.38	0.03	0.18	0.22	5.75	0.38	0.23	6.03	
2	Commercial	607.53	44.89	301.75	346.64	5.71	663.35	397.83	6.00	
(i)	LT-C Commercial	472.52	21.79	228.11	249.9	5.29	496.95	266.45	5.36	
	0-100 units	77.99	4.59	27.69	32.28	4.14	79.70	34.94	4.38	
	101-200 units	47.8	1.69	20.79	22.49	4.7	50.51	24.30	4.81	
	201-400 units	60.12	3.14	29.16	32.3	5.37	65.17	34.64	5.32	
	Above 400 units	286.61	12.36	150.47	162.83	5.68	301.57	172.57	5.72	
(ii)	HT-C Commercial	135.02	23.1	73.64	96.74	7.17	166.40	131.39	7.90	
3	Industrial	2139.85	189.41	1035.98	1225.39	5.73	2290.58	1315.54	5.74	
(i)	LT-I Industrial	80.91	7.05	31.07	38.12	4.71	91.06	44.31	4.87	
	0-500 units	16.18	3.4	5.5	8.9	5.5	17.11	9.99	5.84	
	Above 500 units	64.73	3.66	25.57	29.22	4.51	73.95	34.32	4.64	
(ii)	Low Tension- Mixed/LT-P (Hotel									
()	Industries)	4.48	0.14	2.35	2.49	2.49	4.04	2.30	5.70	
(iii)	High Tension-I/HT-I	1499.12	157.91	734.68	892.58	892.58	1695.31	984.06	5.80	
	Connected at 11/33 kV	1247.94	135.2	616.15	751.36	751.36	1448.28	843.31	5.82	
	Connected at 110 kV	251.18	22.7	118.52	141.22	141.22	247.03	140.75	5.70	
(iv)	High Tension- Ferro/SM/PI/SR	555.35	24.31	267.89	292.2	292.2	500.17	284.88	5.70	
4	Agriculture	33.62	1.71	5.88	7.59	7.59	40.73	9.64	2.37	
(i)	Low Tension-AG/LT- AGP (Pump Sets/Irrigation)	17.29	1.09	2.59	3.69	3.69	18.50	4.33	2.34	



			Revenue for FY 2022-23 from approved retail tariff determined by Commission (In INR Cr) FY 2022-23					Revenue for FY 2023-24 from existing retail tariff determined by Commission (In INR Cr) FY 2023-23		
SI. No.	Category	Full	year rever	nue (Rs. Cro	ore)	Average	reven	year ue (Rs. ore)	Average	
		Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Billing Rate (Rs/kWh)	Sales in MU	Total	Billing Rate (Rs/kWh)	
(ii)	Low Tension-AG/LT-									
(,	AGA (Allied Activities)	0.79	0.05	0.14	0.19	0.19	1.44	0.37	2.55	
(iii)	High Tension-AG/HT- AGP (Pump									
	Sets/Irrigation)	4.89	0.44	1.03	1.47	1.47	6.32	1.68	2.66	
(iv)	High Tension-AG/HT- AG (Allied Activities)	10.65	0.12	2.12	2.24	2.24	14.47	3.26	2.26	
	Military Engineering									
5	Services/ defense									
	Establishments	26.96	1.73	13.7	15.43	15.43	31.87	20.70	6.49	
6	Public Lighting	29.61	0.23	16.73	16.96	16.96	47.56	20.21	4.25	
7	Hoardings/Signboards	0.16	0.04	0.16	0.2	0.2	0.31	0.38	12.45	
8	Temporary	12.1	0	10.18	10.18	10.18	10.12	9.14	9.03	
(i)	LT	9.77	0	8.07	8.07	8.07	3.97	0.70	1.76	
	LT Domestic	0.69	0	0.3	0.3	0.3	1.03	0.34	3.29	
(::)	LT Commercial	9.08	0	7.77	7.77	7.77	2.94	0.36	1.23	
(ii)	HT Single Deint Supply	2.33	0	2.11	2.11	2.11	6.15	8.44	13.73	
<b>9</b>	Single Point Supply	5.69	0.91	2.76	3.67	3.67	6.41	4.26	6.65	
(i)	Residential Complexes Commercial	0	0	0	0	0				
(ii)	Complexes	5.69	0.91	2.76	3.67	3.67	6.41	4.26	6.65	
(iii)	Industrial Complexes	0	0	0	0	0				
			-	-		•				
	TOTAL	4241.87	275.84	1748.18	2024.02	4.77	4430.74	2147.29	4.85	

Actual Revenue of FPPCA for H1 of Rs. 187.09 Crore and the estimated amount of Rs. 161.99 Crore for Q3 which is approved by Hon'ble JERC @ Rs.1.36 /Unit and estimated amount of Rs. 69.43 Crore for Q4 is considered for FY 2022-23 which works out to



Rs.418.51 Crore. So, the revenue out of Fixed Charge (FC) and Energy Charge (EC) or Variable Charge (VC) for FY 2022-23 (H1 + H2) of Rs.2147.29 Crore Plus Rs. 418.51 Crore of revenue FPPCA is considered for computation of the Revenue Gap detailed in the following.

## 4.18 Estimated Revenue Gap for FY 2022-23

EDG submits that it has estimated the Net Revenue Gap for FY 2022-23 after considering the budgetary support from the Government of Goa and the same is presented in the table given below.

Particulars	Approved in Order dt. 31- 03-2022	Revised Projections FY 2022-23
Net Revenue Requirement	2408.15	2,864.13
Revenue from Sale of Power	1992.53	2,565.79
Revenue Gap during the Year	415.62	298.33
Less: Budgetary Support for State Govt.	-	298.33
Net Revenue to be carried forward	415.62	-

Table 4-31: Revenue Gap for FY 2022-23 (APR) (Rs. Cr.)

Government of Goa has agreed to provide the budgetary support for any revenue gap for FY 2022-23. Accordingly, the final revenue gap approved by the Hon'ble Commission for FY 2022-23 will be provided by Government of Goa as budgetary support. Accordingly, the entire revenue gap as computed above is proposed to be met by the Government of Goa as a budgetary support. Thus, the revenue gap carried forward to FY 2022-23 has been considered as NIL.

In view of above, the Hon'ble Commission is requested to allow Revenue Gap for FY 2022-23 as NIL as computed in the above table for the purpose of carrying forward to FY 2023-24.



## 5 AGGREGATE REVENUE REQUIREMENT FOR FY 2023-24

## 5.1 Preamble

The Hon'ble Joint Electricity Regulatory Commission (JERC) has notified the Regulations, JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021 on 22nd March 2021 for the determination of tariff for the MYT control period based on certain norms of operation and financial parameters.

The JERC (Multi Year Distribution Tariff) Regulations, 2021 hereafter referred to as MYT Regulations, 2021 clearly states that the Hon'ble Commission shall determine the tariff under MYT framework with effect from 1st April 2021. The relevant section is quoted below:

*"12 Annual Performance Review, Truing-up and tariff determination during the Control Period* 

12.3 The scope of the annual performance review, truing up and tariff determination shall be a comparison of the performance of the Generating Company, Transmission Licensee or Distribution Licensee with the approved forecast of Aggregate Revenue Requirement and Expected Revenue from Tariff and Charges and shall comprise of the following:

a) True-up: a comparison of the audited financial and actual operational performance of the Applicant for the Financial Year for which the true up is being carried out with the approved forecast for such previous Financial Year, subject to the prudence check;

b) Annual Performance Review: a comparison of the revised estimates of performance targets of the Applicant for the current Financial Year with the approved forecast in the Tariff Order corresponding to the Control Period for the current Financial Year subject to prudence check;

c) Tariff determination for the ensuing Year of the Control Period based on the revised forecast of the Aggregate Revenue Requirement for the Year;

d) Review of compliance with directives issued by the Commission from time to time;

e) Other relevant details, if any."

ED accordingly submits proposed Aggregate Revenue Requirement for FY 2023-24 along with the proposed Tariff for FY 2023-24 (based on the parameters defined in the MYT



Regulations, 2021) against the approved Business Plan Order and Tariff Order for MYT Control Period of FY 2022-23 to FY 2024-25 issued by the Hon'ble Commission.

## 5.2 Principles for determination of ARR

This chapter summarizes the Aggregate Revenue Requirement (ARR) for FY 2023-24. The projections have been made based on the parameters specified in the MYT Regulations, norms proposed and approved in Business Plan & Tariff Order and also based on actual data for previous years.

The overall performance parameters proposed for the FY 2023-24 is based on the methodologies discussed in subsequent paragraphs.

#### 5.3 Billing Determinants for FY 2023-24

EDG has submitted number of category-wise Consumers, Connected Load and Sales projected based on the various CAGR and assumptions. The same has been considered to project the revenue for FY 2023-24 as per the format provided by Hon'ble Commission tabulated below.

#### Sales:

EDG submits that the Hon'ble Commission had approved the estimated sales for FY 2023-24 as 4,385.84 MUs. EDG would like to submit that post COVID, the economic activity in the State of Goa has increased and the sales have increased in FY 2021-22 and first half of FY 2022-23. The actual sales for FY 2021-22 was 4009.03 MU and the actual sales during first half of FY 2022-23 was 2215.01 MU. EDG has considered the actual sales during FY 2021-22 and first half of FY 2022-23 and first half of FY 2022-23.

For the purpose of ARR for FY 2023-24, ED-Goa has extrapolated the figures of sales determined for APR FY 2022-23 with 3,4 & 5 year CAGR and in case of (-) negative CAGR assumption of 3% is considered.

The following table shows the overall sales considered by EDG for FY 2023-24 vis-à-vis Sales approved in Tariff Order dated 31<sup>st</sup> March 2022.



Sr. No.	Category of Consumer	Approved in Order dt. 31-03- 2022	FY 2023-24 (Projections)
A. LOV	V TENSION SUPPLY		
1	LTD/Domestic	1,451.32	1385.41
2	LT-L.I.G (Low income Group)	1.37	0.93
3	LTC/Commercial	485.13	511.86
4	LTI/ Industrial	80.91	4.16
5	LT Mixed/ LT-P Hotel Industries	4.48	93.79
6	Low Tension-AG/LT-AGP (Pump Sets/Irrigation)	- 18.08	19.05
7	Low Tension-AG/LT-AGA (Allied Activities)	10.00	1.48
8	LTPL Public lighting	29.61	50.09
9	LT Hoarding /Sign Board	0.16	0.34
B. HIG	H TENSION SUPPLY		
10	HTD Domestic	0.38	0.39
11	HT Commercial	142.13	170.89
12	HTI Industrial	1,528.95	1738.62
13	High Tension-Ferro/SM.PI/SR	581.12	512.94
14	High Tension-AG/HT-AGP (Pump Sets/Irrigation)	17.09	6.51
15	High Tension-AG/HT-AG (Allied Activities)	17.05	14.90
16	Military Engineering Services/defense Establishments	27.27	33.43
C. TEN	IPORARY SUPPLY		
17	L.T. Temporary	9.77	4.09
18	H.T. Temporary	2.33	6.33
D. Sing	gle Point Supply		
19	Residential Complexes		
20	Commercial Complexes	5.74	6.68
21	Industrial Complexes		
	Total	4,385.84	4561.91

## Table 5-1: Sales for FY 2023-24



## CAGR considered for Sales:

S.No	Category wise Sales (MU)	FY 2022-23	Growth Rate (%)	Basis	FY 2023-24
Α.	LT				
	Domestic	1339.43	3.50%	4 year CAGR	1386.3
	Non Domestic	500.99	3%	Assumption	516.0
	LT Industrial	91.06	3%	Assumption	93.8
	LT Agriculture	19.94	3%	Assumption	20.5
	Street Light	47.56	5.31%	5year CAGR	50.1
	Hoarings/Signboards	0.31	10.97%	3 year CAGR	0.3
	sub-total	1999.30			2067.1
В.	НТ				
	HT Domestic	0.38	3.47%	4 year CAGR	0.4
	HT Commercial	166.40	2.70%	4 year CAGR	170.9
	HT Industrial	2195.48	2.55%	4 year CAGR	2251.6
	HT Agriculture	20.79	3%	Assumption	21.4
	HT-MES/Defence	31.87	4.89%	3 year CAGR	33.4
	sub-total	2414.92			2477.7
C.	Temporary	10.12	3%	Assumption	10.4
D.	Single Point Supply	6.41	4.23%	5year CAGR	6.7
E	Others	0.00			0.0
	Total	4430.74			4561.91

#### Table 5-2: CAGR considered for Sales of FY 2023-24

**Note:** Assumption is considered if the CAGR is arrived at negative (-).

The Hon'ble Commission is requested to approve the revised sales figures considered in the table above for ARR of FY 2023-24. The figures for energy sales for FY 2023-24 are provided in Format 5 of Tariff Filing Formats.

#### No. of Consumers:

The consumer base of Goa comprises of HT Industry, LT Industry, Commercial and Domestic consumers with the maximum number of consumers attributable to the domestic category. For the purpose of ARR for FY 2023-24, ED-Goa has extrapolated the figures of No.of Consumers for FY 2021-22 3,4 & 5 year CAGR and in case of (-) negative CAGR assumption of 3% is considered.

The figures of No. of Consumers is provided in the format 5 of this petition. The table below shows category wise number of consumers considered for FY 2023-24 vis-à-vis number of consumers approved by the Hon'ble Commission in MYT Tariff order for FY



2023-24.

S. No.	Category of Consumer	Approved in Order dt. 31- 03-2022	FY 2023-24 (Projections)
A. LOV	V TENSION SUPPLY		
1	LTD/Domestic	612,209	581956
2	LT-L.I.G (Low income Group)	1,314	903
3	LTC/Commercial	111,025	111549
4	LTI/ Industrial	5,799	123
5	LT Mixed/ LT-P Hotel Industries	125	6027
6	Low Tension-AG/LT-AGP (Pump Sets/Irrigation)	12 970	13125
7	Low Tension-AG/LT-AGA (Allied Activities)	12,870	304
8	LTPL Public lighting	3	6473
9	LT Hoarding /SignBoard	321	69
B. HIG	H TENSION SUPPLY		
10	HTD Domestic	3	4.00
11	HT Commercial	321	343
	HTI Industrial	978	833
12	High Tension-Ferro/SM.PI/SR	26	24
13	High Tension-AG/HT-AGP (Pump Sets/Irrigation)	10	44
14	High Tension-AG/HT-AG (Allied Activities)	48	3
15	Military Engineering Services/defense Establishments	14	15
C. TEN	IPORARY SUPPLY		
16	L.T. Temporary	2,609	5003
17	H.T. Temporary	11	16
D. Sing	le Point Supply		
18	Residential Complexes		
19	Commercial Complexes	1	1
20	Industrial Complexes		
E	Other Categories		
21	Electric Vehicle Charging Station		2
	Total	748498	726815

# Table 5-3: Number of Consumers for FY 2023-24 (Nos)



#### CAGR considered for No. of Consumer:

S.No	Number of Consumers	FY 22-23 H1	Growth Rate (%)	Basis	FY 2022-23	FY 2023-24
Α.	LT					
	Domestic	552646	3.30%	5 year CAGR	564244	582859
	Non Domestic	106052	3.22%	5 year CAGR	108186	111672
	LT Industrial	5646	3%	Assumption	5851	6027
	LT Agriculture	12715	3%	Assumption	13038	13429
	Street Light	6300	3%	Assumption	6284	6473
	Hoardings/Signboards	64	3%	Assumption	67	69
	sub-total	683423			697670	720528
В.	HT					
	HT Domestic	4			4.00	4.00
	HT Commercial	302	8.71%	5 year CAGR	315	343
	HT Industrial	820	3.16%	5 year CAGR	830	857
	HT Agriculture	45	1.88%	5 year CAGR	46	47
	HT-MES/Defence Establishment	14	3.13%	5 year CAGR	14	15
	sub-total	1185			1210	1265
C.	Temporary	4706			5019	5019
D.	Single Point Supply	1			1.00	1.00
Е	Others	2			2	2.00
	Total	689317			703902	726815

#### Table 5-4: CAGR considered for No. of Consumer FY 2023-24

Note: Assumption is considered if the CAGR is arrived at negative (-).

The Hon'ble Commission is requested to approve number of consumers for ARR of FY 2023-24 as submitted in the above table. The figures for number of consumers for FY 2023-24 are provided in Format 5 of Tariff Filing Formats.

#### **Connected Load:**

For the purpose of ARR for FY 2023-24, ED-Goa has extrapolated the figures of Connected Load determined for FY 2021-22 with 3,4 & 5 year CAGR and in case of (-) negative CAGR assumption of 3% is considered.

The figures of Connected Load is provided in the format 5 of this petition. The table below shows category wise number of consumers considered for FY 2023-24 vis-à-vis number of consumers approved by the Hon'ble Commission in MYT Tariff order for FY 2023-24.



S. No.	Category of Consumer	Approved in Order dt. 31- 03-2022	FY 2023-24 (Projections)
A. LOV	N TENSION SUPPLY		
1	LTD/Domestic	1908443	1881661
2	LT-L.I.G (Low income Group)	117	71
3	LTC/Commercial	426899	426256
4	LTI/ Industrial	149240	2567
5	LT Mixed/ LT-P Hotel Industries	2757	146023
6	Low Tension-AG/LT-AGP (Pump Sets/Irrigation)	E 41 2 4	47441
7	Low Tension-AG/LT-AGA (Allied Activities)	54134	2406
8	LTPL Public lighting	3212	10061
9	LT Hoarding /SignBoard	567	572
B. HIG	H TENSION SUPPLY		
10	HTD Domestic	300	400
11	HT Commercial	93,093	131089
	HTI Industrial	650632	606555
12	High Tension-Ferro/SM.PI/SR	95340	116495
13	High Tension-AG/HT-AGP (Pump Sets/Irrigation)	12005	10006
14	High Tension-AG/HT-AG (Allied Activities)	13085	2377
15	Military Engineering Services/defense Establishments	8753	9223
C. TEN	IPORARY SUPPLY		
16	L.T. Temporary	9107	7526
17	H.T. Temporary	2468	7083
D. Sing	gle Point Supply		
18	Residential Complexes		
19	Commercial Complexes	4035	2500
20	Industrial Complexes		
	Total	3422183	3410314

# Table 5-5: Connected Load for FY 2023-24 (KW/ kVA)



#### CAGR considered for Connected Load:

S.No	Connected Load	FY 22-23 H1	Growth Rate (%)	Basis	FY 2022-23	FY 2023-24
Α.	LT					
	Domestic	1685093	5.28%	4 year CAGR	1787365	1881732
	Non Domestic	383168	5.45%	4 year CAGR	406647	428823
	LT Industrial	136699	3%	Assumption	141770	146023
	LT Agirculture	49039	3%	Assumption	48396	49847
	Sreet Light	8923	3%	Assumption	9767	10061
	Hoarings/Signboards	501	3%	Assumption	555	572
	sub-total	2263423			2394501	2517058
В.	HT					
	HT Domestic	400			400.00	400.00
	HT Commercial	115268	10.49%	5 year CAGR	118644	131089
	HT Industrial	672186	4.03%	4 year CAGR	695043	723050
	HT Agriculture	11460	4.87%	4 year CAGR	11808	12383
	HT-MES/Defence	8175	4.82%	4 year CAGR	8799	9223
	sub-total	807489			834695	876146
C.	Temporary	13077			14609	14609
D.	Single Point Supply	2500			2500.00	2500.00
Е	Others	0			0	0.00
	Total	3086489			3246305	3410314

#### Table 5-6: CAGR considered for Connected Load for FY 2023-24

**Note:** Assumption is considered if the CAGR is arrived at negative (-).

The Hon'ble Commission is requested to approve the Connected Load for ARR of FY 2023-24 as submitted in the above table. The details of Connected Load for FY 2023-24 are provided in Format 5 of Tariff Filing Formats.

#### 5.4 T&D Loss for FY 2023-24

EDG has considered the actual transmission losses of H1 of FY 2022-23 as the revised transmission (PGCIL) losses for the FY 2023-24. Further, ED-Goa. The following table shows the transmission losses that are considered for energy projection:

Region	FY 2022-23	FY 2023-24
Western Region	2.89%	2.89%
Southern Region	6.97%	6.97%

Table 5-7: Inter-State Transmission Loss Projections



Region	FY 2022-23	FY 2023-24
Total	3.55%	3.55%

EDG submits that, EDG has considered same T&D loss as per FY 2022-23 H1 actual. EDG has been working hard to reduce its Distribution losses to the targets approved by the Hon`ble Commission in the previous Tariff Order and has reduced some of its Distribution Loss due to implementation of SAP, R-APDRP Part A schemes, by resolving the billing issues, transition of billing and collection agencies and infusion of funds to strengthen and improve the distribution network. As the issues are resolved and data billing etc is done through SAP, the provisional actual distribution losses observed for FY 2021-22 are 8.45%. Further, EDG has considered the distribution loss for target FY 2023-24 of 8.45%. Further, EDG submits that it would further invest in the capital expenditure during the FY 2024-25 of the Control Period to further to optimise the technical losses and commercial losses.

ED-Goa has proposed the T&D Loss for FY 2023-24 as tabulated below:

#### Table 5-8: T&D Loss for FY 2023-24 (%)

Particulars	FY 2023-24	
	%	
Transmission and Distribution Loss	8.45%	

#### 5.5 Energy Balance

Based on the Sales and distribution loss, and PGCIL losses for FY 2022-23 and FY 2023-24, the energy requirement has been projected by the EDG. The Energy balance for FY 2022-23 and FY 2023-24 is shown in the following table with WR and SR Breakup:

Particulars	FY 2022-23 H1			FY 2022-23 H2	FY 2022-23	FY 2023-24
	WR	SR	Total	Total	Total	Total
Energy Input at Goa Periphery	1,980.69	367.72	2,348.41	2,313.93	4,662.34	4,780.60
Total Power Scheduled/ Purchased at Goa Periphery						
Total Schedule Billed Drawal - CGS	1,761.68	331.53	2,093.21	1,670.45	3,763.66	4,169.49
Add: Overdrawal	21.23	23.76	44.98	-	44.98	-
Add: Power purchase from NVVN / Banking	(51.95)		(51.95)	48.33	(3.63)	(7.32)
Add: Power purchase from Traders	26.28	15.07	41.35	-	41.35	-

#### Table 5-9: Energy Balance for FY 2023-24 (Periphery wise)



Particulars	FY 2022-23 H1			FY 2022-23 H2	FY 2022-23	FY 2023-24
	WR	SR	Total	Total	Total	Total
Add: Power purchase from / Open Market	43.45	24.91	68.36	348.84	417.20	-
Add : Hydro Power		-	-	-		
Less: Underdrawal	0.78	-	0.78	-	0.78	-
Add: Renewable Power	398.04	-	398.04	318.63	716.67	788.27
Less: Power diverted to Exchange	158.39	-	158.39	-	158.39	-
Total	2,039.56	395.26	2,434.82	2,386.24	4,821.06	4,950.44
PGCIL Losses - MUs	58.87	27.54	86.41	72.31	158.72	169.84
PGCIL Losses - %	2.89%	6.97%	3.55%	3.55%	3.55%	3.55%
Total Power Purchased within Goa State						
Add: Co-generation	46.56		46.56	92.57	139.13	154.13
Add: Independent Power Producers (IPP)			-			
Add: Net Metering	12.89		12.89	17.11	30.00	40.00
Add: PM KUSUM	-		-			
Add: Hindustan Waste Treatment Plant	2.77		2.77	5.23	8.00	8.00
Total	62.21	-	62.21	114.92	177.13	202.13
Total Power Purchase availability after PGCIL Losses	2,042.90	367.72	2,410.62	2,428.85	4,839.47	4,982.73
Power Purchase required (MU)			2,410.62	2,428.85	4,839.47	4,982.73
Less: Retail Sales to Consumers	2,215.01		2215.01	2,215.73	4,430.74	4,561.91
Distribution Losses - MUs			195.61	213.12	408.73	420.83
Distribution Losses - %			8.11%	8.77%	8.45%	8.45%

## 5.6 Power Purchase quantum and Cost for FY 2023-24

The MYT regulations, 2021 specifies the following provisions with respect to cost of power purchase.

## "59 Cost of Power Purchase



59.1 The Distribution Licensee shall be allowed to recover the cost of power generated by the Generating Stations owned by it or purchased from approved sources for supply to Consumers based on the power procurement plan of the Distribution Licensee, approved by the Commission."

Following is the Power purchase quantum for FY 2023-24 submitted:

Particulars	Gross Purchase	Cost	Rate
	MUs	Rs. Cr.	Rs./kWh
NTPC	3,943.93	1,297.81	3.29
NPCIL	225.55	44.73	1.98
IEX (Net of Purchase and Sales)	-	-	
IEX Purchase (Peak Hrs)	-	-	
IEX Sale (Off Peak Hrs)	-	-	
Traders	-	-	
Net Overdrawal	-	-	
Co-Generation	154.13	36.99	2.40
Renewable	836.27	343.56	4.11
Transmission		290.50	
Banking of Power (Net)	(7.32)	0.35	
Total	5,152.57	2,013.94	

Table 5-10: Power Purchase Quantum for FY 2023-24

Power purchase quantum projected above is based on the FY 2022-23 H1 actuals and projections of FY 2022-23 H2. Further, in the projections no additional power from the market/traders/DEEP portal is considered as the major Power Purchase from Central Generating Stations. However, deficit if any shall be met from the market/exchange/DEEP portal.

**Fixed Cost for Central Generating Stations:** - As CERC has still not issued the Order for most of the Plants, ED-Goa has considered actual fixed charges paid to the plant in H1 of FY 2022-23 to arrive at the revised projections of base year FY 2022-23 for respective Central Generating Stations and the same is considered for FY 2023-24.



		Power Purchase Cost - Fixed Cost
		(FC) (Rs. Cr)
S. No.	Source	Projections (FC Rs. Crore)
		2022-23
Α	Central Sector Power Stations	
I	NTPC	
1	KSTPS	110.57
2	VSTPS - I	24.01
3	VSTPS - II	7.97
4	VSTPS -III	9.83
5	VSTPS-IV	17.49
6	VSTPS-V	8.74
7	КБРР	7.92
8	GGPP	8.69
9	SIPAT- I	23.51
11	KSTPS-VII	5.69
14	RSTPS	50.12
15	SIPAT- II	9.90
16	Solapur	25.10
17	Gadarwara	31.48
18	Lara	17.55
19	Khargone	22.08
20	Mouda I	19.98
21	Mouda II	20.80
	Add/ Less: Other Adjustments	
	, , ,	
Ш	NPCIL	
	KAPS	-
	TAPS	-
IV		
	a)IEX PURCHASEAND SALES	-
	a)IEX PURCHASE a)IEX SALES	-
	b) Traders	-
		1
v	OVER/ UNDER DRAWAL	-
	OVER DRAWAL	-
	UNDER DRAWAL	-
VI	Banking of Power	-
В	Within State Generations	
1	CO- GENERATION	
	Vedanta Plant-1	-

# Table 5-11: Fixed Cost for FY 2023-24



S. No.	Source	Power Purchase Cost - Fixed Cost (FC) (Rs. Cr) Projections (FC Rs. Crore) 2022-23
	Vedanta Plant -2	-
	Goa Sponge and private limited	-
С	RPO Obligation	
	Solar	
	NVVNL Solar	-
	Solar STOA	-
	SECI Solar	-
	Net Metering	-
	Non-Solar	
	Non Solar - SECI Wind Tranche II LTOA	-
	STOA (Non Solar)	-
	SECI Tranche-VI	-
	Hindustan waste treatment plant Goa	-
D	REC Certificates	
E	OTHER CHARGES	-
	PGCIL Transmission Charges, Wheeling, Open Access & Trading Margin & Other Charges	-
F	Total	421.43

**Variable Cost for Central Generating Stations:** The Petitioner has considered the average of actual per unit variable costs for FY 2021-22 and escalated the same with 7 % for the revised projections of FY 2022-23 and the same is considered for FY 2023-24. The Petitioner has considered any increase in Variable Cost for FY 2023-24 and any increase will be considered as part of fuel price adjustment.

For Solar and Non-Solar firm power, the rates as per the PPA are considered for the FY 2023-24 without any escalation.

To fulfil the RPO compliance, the deficit renewable power as per the ED-Goa's obligation is compensated by procuring renewable power (Solar and Non-Solar) from the Short-Term Market. The GTAM rates as per the actuals of H1 FY 2022-23 is considered for FY 2023-24 without any escalation. The market rates as per actuals of H1 FY 2022-23 is escalated at 5% for FY 2023-24.



	Power Purchase Cost - Variable Cost (VC)						
Source	Projections (VC-	Projections					
		(VC- Rs. Crore)					
		2023-24					
Central Sector Power Stations							
		876.38					
KSTPS	145.52	236.98					
VSTPS - I		44.46					
		16.57					
		14.94					
		18.04					
		8.43					
	-	-					
GGPP	-	-					
SIPAT- I	149.48	27.66					
KSTPS-VII	142.31	7.83					
RSTPS	342.40	246.89					
SIPAT- II	154.40	16.14					
Solapur	507.61	53.76					
Gadarwara	363.80	41.13					
Lara	222.56	22.37					
Khargone	428.00	38.94					
Mouda I							
Mouda II	437.20	44.49					
Add/ Less: Other Adjustments							
NPCIL	398.17	44.73					
KAPS	171.20	19.85					
TAPS	226.96	24.88					
Traders							
a)IEX PURCHASEAND SALES	408.54	-					
a)IEX PURCHASE	464.23	-					
a)IEX SALES	429.14	-					
b) Traders	-	-					
OVER/ UNDER DRAWAL							
OVER DRAWAL		-					
UNDER DRAWAL		-					
Banking of Power		0.35					
Within State Generations							
		36.99					
Vedanta Plant-1	240.00	19.36					
	Central Sector Power Stations NTPC KSTPS VSTPS - 1 VSTPS - 1 VSTPS - 11 VSTPS - 11 VSTPS - 11 VSTPS-VV KGPP GGPP SIPAT- 1 KSTPS-V11 RSTPS SIPAT- 1 KSTPS-V11 RSTPS SIPAT- 11 Solapur Gadarwara Lara Khargone Mouda 1 Mouda 1 Mouda 1 Add/ Less: Other Adjustments  NPCIL KAPS TAPS a)IEX PURCHASEAND SALES a)IEX PURCHASEAND SALES a)IEX PURCHASE AJIEX SALES b) Traders	paise/unit)           2023-24           Central Sector Power Stations           NTPC           KSTPS           145.52           VSTPS - I           163.18           VSTPS - II           157.18           VSTPS - III           155.90           VSTPS - III           155.90           VSTPS - III           155.90           VSTPS - V           153.87           VSTPS-V           GGPP					

### Table 5-12: Variable Cost for FY 2023-24



6		Power Purchase Cost	
S. No.	Source	Projections (VC- paise/unit)	Projections (VC- Rs. Crore)
		2023-24	2023-24
	Goa Sponge and private limited	240.00	1.12
С	RPO Obligation		
	Solar		162.65
	NVVNL Solar	550.00	7.03
	Solar STOA	502.44	112.62
	SECI Solar	550.00	29.95
	Net Metering	326.00	13.04
	Non-Solar		180.91
	Non Solar - SECI Wind Tranche II	271.00	38.53
	LTOA	271.00	56.55
	STOA (Non Solar)	505.00	107.31
	SECI Tranche-VI	218.50	31.07
	Hindustan waste treatment	500.00	4.00
	plant Goa	500.00	4.00
D	REC Certificates		
Е	OTHER CHARGES		
	PGCIL Transmission Charges,		
	Wheeling, Open Access &		290.50
	Trading Margin & Other Charges		
F	Total		1592.51

### Power Projection within State Generation:

ED-Goa has tied up power from three Co-Generating Plants within State namely Vedanta Pvt. Ltd. Plant I, Goa Sponge and Power Limited (GSPL) and Vedanta Pvt. Ltd. Plant II. The total energy projection from above three plants for the FY 2023-24 is based on actual energy received i.e 154.13 MUs and at the same rates.

Purchase from Solar:

EDG has been procuring power from the Renewable Sources whereby 6 MW Solar Power is procured from NVVN, 25 MW from SECI to meet its RPO obligations.

Further, ED-Goa has planned the tie-ups of Renewable energy in FY 2023-24 to meet its RPO obligations and the same has been discussed in the earlier section of Upcoming Power plant. However, the same has been reproduced here below.



ED-Goa has signed Power purchase Agreement with SECI 150 MW RTC Peak Power from a combined sources of Renewable Power comprising of Solar, Wind and Battery Energy Storage System (BESS) provides assured Peak Power to compensate the Peak Deficit of Goa. The project contributes to Peak Power compensation and RPO as well. The project envisages the supply to start FY 2023-24 at the rate of Rs 4.03 /unit at Goa periphery. However, the approval of CERC is awaited to initiate the commissioning of the project.

Further, ED-Goa is also expecting the consumers to go for solar rooftops and indulge in more Net Metering/ Gross Metering for FY 2023-24. The total Cumulative installed capacity including all types of rooftop solar and ground mounted solar as on 30.10.2022 within Goa is 32.53 MW of which, Rooftop is 23.13 MW and Ground Mounted is 9.22 MW. ED-Goa expects to receive certain power from rooftop projects for FY 2023-24.

Apart from above, to meet any shortfall (if any) and to fulfil the Solar RPO obligation, EDG shall purchase power through short term (Traders) through DEEP portal, GTAM.

Purchase from Non-Solar:

ED-Goa would be procuring non-solar Renewable power for meeting the RPO in FY 2023-24 through short term on DEEP portal. ED-Goa has procured 2.77 MUs (for FY 2022-23 H1) and it is projected to receive 5.23 MUs in FY 2022-23 H2 from Hindustan Waste Energy Ltd as it is proposed to increase the capacity of the project. Accordingly, it is projected that 8 MUs will be supplied by Hindustan Waste Energy Ltd to EDG for FY 2023-24.

Further, the petitioner receiving the power from SECI Tranche II 50 MW Wind power and procuring the power at a rate of Rs. 2.72/unit plus trading margin of Rs. 0.07/kWh at Goa periphery since August 2022. The actual energy delivered by SECI Tranche II 50 MW, for FY 2022-23 H1 is 82.31 MU. Accordingly for FY 2023-24 it is projected as 142.18 MUs based on the Energy flow of Wind Power in the past.

EDG submits that it has executed a Power Sale Agreement (PSA) on 16th August 2019 with SECI for Procurement of 50 MW Wind Power (Tranche VI) for 25 years at a fixed tariff for Rs. 2.82/kWh plus trading margin of Rs. 0.07/kWh for fulfilment of Non-Solar RPO. EDG has started receiving the Power from September 2022 and inline with the SECI Tranche II 50 MW Wind power the projections are performed for FY 2023-24.

Apart from above, to meet any shortfall (if any) and to fulfil the Non-Solar RPO



obligation, EDG shall purchase power through short term (Traders) through DEEP portal, GTAM.

SECI 150 MW Combined Solar, Non-Solar and BESS:

ED-Goa has signed Power purchase Agreement with SECI 150 MW RTC Peak Power from a combined sources of Renewable Power comprising of Solar, Wind and Battery Energy Storage System (BESS) provides assured Peak Power to compensate the Peak Deficit of Goa. The project contributes to Peak Power compensation and RPO as well. The project envisages the supply to start FY 2023-24 at the rate of Rs 4.03 /unit at Goa periphery. However, the approval of CERC is awaited to initiate the commissioning of the project.

Renewable Purchase Obligation:

As discussed above, ED-Goa envisages to meet its RPO obligation through purchase of physical renewable power and may even exceed the RPO obligations as cheap power is available in the market, in comparison to the conventional sources. Further, after considering all the proposed tied-up renewable energy, ED-Goa proposes to meet any shortfall to fulfil the RPO obligation, through purchase from short term (Traders) through DEEP portal, GTAM. For projection of ED-Goa plans to buy REC for FY 2023-24.

The following table shows the Renewable Purchase Obligation for Solar and Non-Solar for ED-Goa for the respective years.

S.No	Description	Unit	Projections
5.110	Description	Unit	FY 2023-24
1	Sales Within State (As approved in Order dt. 31-03-2022)	MUs	4385.84
2	RPO Obligation	%	19.91%
	Solar	%	10.00%
	Non Solar	%	9.25%
	НРО	%	0.66%
3	RPO Obligation	MUs	873.22
	Solar	MUs	438.58
	Non Solar	MUs	405.69
	НРО	MUs	28.95
4	Power Purchase	MUs	836.27
	Solar	MUs	331.41

Table 5-13: RPO obligation and compliance for FY 2023-24



S.No	Description	Unit	Projections		
5.100	Description	Onic	FY 2023-24		
	Non Solar	MUs	504.86		
	НРО	MUs	0.00		

Power Purchase from Traders/ Short Term:

ED-Goa also expects to purchase power in Short-term from exchanges or Traders or DEEP portal to fulfil its peak or shortfall requirements. Further, ED-Goa also expects some surplus to be available during off-peak hours and would indulge in banking or sale of power in exchanges in the real time basis.

To meet any shortfall, if occurs, EDG purchases the power through short term (Traders). For FY 2022-23 H1, ED-Goa has procured 68.36 MUs at the average rate of Rs.7.51/unit and EDG has further envisaged to purchase of 348.84 MUs from traders/exchange at a rate of Rs. 3.89/unit depending upon the past rates for FY 2022-23. However, for the FY 2023-24, ED-Goa does not envisage to buy any power from the traders/exchange/short term.

Power Purchase from New/Upcoming Stations:

ED-Goa has no upcoming power purchase planned from the Central Generating Stations. ED-Goa has planned the tie-ups of Renewable energy both outside and within the state for FY 2023-24 to meet its RPO obligations. Accordingly, ED-Goa has also considered the upcoming power stations for FY 2023-24. The same is as under:

Further, ED-Goa has signed Power purchase Agreement with SECI 150 MW RTC Peak Power from a combined sources of Renewable Power comprising of Solar, Wind and Battery Energy Storage System (BESS) provides assured Peak Power to compensate the Peak Deficit of Goa. The project contributes to Peak Power compensation and RPO as well. The project envisages the supply to start FY 2023-24 at the rate of Rs 4.03 /unit at Goa periphery. However, the approval of CERC is awaited to initiate the commissioning of the project.

The Petitioner has considered the actual transmission charges for H1 of FY 2022-23 and calculated the transmission charges per unit for PGCIL. The same per unit rate has been considered for computation of Transmission charges for FY 2023-24. Based on the above assumptions, power purchase quantum for Central Generating Stations is derived for FY 2023-24.



As discussed in forgoing paras, following is the station wise power purchase quantum and cost for the FY 2023-24

S. No	Source	Energy Sent out (Scheduled)	External Losses (%)	Energy Received by the Licensee	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Supplement ary Charges	Total Cost	Per Unit Cost
		MU	interstate	MU	paise/uni t	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/ unit
	Central Generating										
1	Stations										
Α	Thermal										
а	NTPC	3,943.93		3,779.31		421.43	876.38	-	-	1,297.81	3.43
(i)	KSTPS	1,628.48	3.55%	1,570.69	145.52	110.57	236.98			347.54	2.21
(ii)	VSTPS - I	272.46	3.55%	262.79	163.18	24.01	44.46			68.47	2.61
(iii)	VSTPS - II	105.44	3.55%	101.70	157.18	7.97	16.57			24.55	2.41
(iv)	VSTPS -III	95.85	3.55%	92.45	155.90	9.83	14.94			24.77	2.68
(v)	VSTPS-IV	117.22	3.55%	113.06	153.87	17.49	18.04			35.52	3.14
(vi)	VSTPS-V	53.07	3.55%	51.19	158.79	8.74	8.43			17.16	3.35
(vii)	KGPP	1.85	3.55%	1.79	-	7.92	-			7.92	44.36
(viii)	GGPP	4.46	3.55%	4.30	-	8.69	-			8.69	20.22
(ix)	SIPAT- I	185.06	3.55%	178.49	149.48	23.51	27.66			51.18	2.87
(x)	KSTPS-VII	55.01	3.55%	53.06	142.31	5.69	7.83			13.52	2.55
(xi)	RSTPS	721.05	6.97%	670.80	342.40	50.12	246.89			297.01	4.43
(xii)	SIPAT- II	104.53	3.55%	100.82	154.40	9.90	16.14			26.04	2.58
(xiii)	Solapur	105.90	3.55%	102.14	507.61	25.10	53.76			78.85	7.72
(xiv)	Gadarwara	113.07	3.55%	109.06	363.80	31.48	41.13			72.62	6.66
(xv)	Lara	100.49	3.55%	96.93	222.56	17.55	22.37			39.92	4.12
(xvi)	Khargone	90.98	3.55%	87.75	428.00	22.08	38.94			61.02	6.95
(xvii)	Mouda I	87.25	3.55%	84.15	432.82	19.98	37.76			57.75	6.86
(xviii)	Mouda II	101.76	3.55%	98.15	437.20	20.80	44.49			65.29	6.65

#### Table 5-14: Power purchase quantum and cost for FY 2023-24



S. No	Source	Energy Sent out (Scheduled)	External Losses (%)	Energy Received by the Licensee	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Supplement ary Charges	Total Cost	Per Unit Cost
		MU	interstate	MU	paise/uni t	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/ unit
	Add/ Less: Other Adjustments										
В	NPC										
а	NPCIL	225.55		217.55		-	44.73	-	-	44.73	2.06
(i)	KAPS	115.94	3.55%	111.82	171.20	-	19.85	-	-	19.85	1.78
(ii)	TAPS	109.62	3.55%	105.73	226.96	-	24.88	-	-	24.88	2.35
2	Banking of Power	-7.32		-7.32		0.00	0.35	0.00	0.00	0.35	-0.48
(i)	Drawal	73.20		73.20	4.78	-	0.35	-	-	0.35	0.05
(ii)	Injection	80.52		80.52	-	-	0.00	-	-	0.00	0.00
4	Short- Term Power										
	Traders	0.00		0.00		0.00	0.00	0.00	0.00	0.00	
(1)	IEX Purchase & Sales	0.00		0.00		0.00	0.00	0.00	0.00	0.00	
(il)	IEX Purchase	0.00	3.55%	-	-	0.00	0.00	0.00	0.00	0.00	
(iil)	IEX Sales	0.00	3.55%	-	-	0.00	0.00	0.00	0.00	0.00	
	Traders Drawal	0.00	3.55%	-	-	0.00	0.00	0.00	0.00	0.00	
	Traders Injection	0.00	3.55%	-	-	0.00	0.00	0.00	0.00	0.00	
5	Within State Generations										
	CO- GENERATION	154.13		154.13		0.00	36.99	0.00	0.00	36.99	2.40
	Vedanta Plant-1	80.68		80.68	240.00	0.00	19.36	0.00	0.00	19.36	2.40
(I) (iI) (iiI)	Vedanta Plant-2	68.78		68.78	240.00	0.00	16.51	0.00	0.00	16.51	2.40



S. No	Source	Energy Sent out (Scheduled)	External Losses (%)	Energy Received by the Licensee	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Supplement ary Charges	Total Cost	Per Unit Cost
		MU	interstate	MU	paise/uni t	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/ unit
	Goa Sponge and private limited	4.66		4.66	240.00	0.00	1.12	0.00	0.00	1.12	2.40
6	RPO Obligation	836.27		820.78		0.00	343.56	0.00	0.00	343.56	4.19
	Solar	331.41		323.45		0.00	162.65	0.00	0.00	162.65	5.03
	NVVNL Solar	12.79		12.79	550.00	0.00	7.03	0.00	0.00	7.03	5.50
	Solar STOA	224.16	3.55%	216.20	502.44	0.00	112.62	0.00	0.00	112.62	5.21
	SECI Solar	54.46		54.46	550.00	0.00	29.95	0.00	0.00	29.95	5.50
	Net Metering	40.00		40.00	326.00	0.00	13.04	0.00	0.00	13.04	3.26
	Non-Solar	504.86		497.32		0.00	180.91	0.00	0.00	180.91	3.64
	Non Solar - SECI Wind Tranche II LTOA	142.18		142.18	271.00	0.00	38.53	0.00	0.00	38.53	2.71
	STOA (Non Solar)	212.50	3.55%	204.96	505.00	0.00	107.31	0.00	0.00	107.31	5.24
	SECI Tranche-VI	142.18		142.18	218.50	0.00	31.07	0.00	0.00	31.07	2.19
	Hindustan waste treatment plant Goa	8.00		8.00	500.00	0.00	4.00	0.00	0.00	4.00	5.00
										0.00	
7	REC Certificates	0.00		0.00		0.00	0.00	0.00	0.00	0.00	
	Solar-REC										
	Non Solar- REC										
9	UI (Net Overdrawal)	0.00		0.00		0.00	0.00	0.00	0.00	0.00	
	OVER DRAWAL	0.00		-	-	0.00	0.00	0.00	0.00	0.00	
	UNDER DRAWAL	0.00		-	-	0.00	0.00	0.00	0.00	0.00	



S. No	Source	Energy Sent out (Scheduled)	External Losses (%)	Energy Received by the Licensee	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Supplement ary Charges	Total Cost	Per Unit Cost
		MU	interstate	MU	paise/uni t	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/ unit
8	OTHER CHARGES										
	PGCIL Transmission										
	Charges, Wheeling, Oen										
	Access & Trading						290.50			290.50	
	Marrgin & Other										
	Charges										
10	Total Power Purchase	5152.57	0.00	4964.44		421.43	1592.51	0.00	0.00	2013.94	4.06

The Hon'ble Commission is kindly requested to approve the total power purchase cost of for FY 2023-24 as stated in the table above. The details of the Power Purchase Expenses for FY 2023-24 are provided in Format 3 of Tariff Filing Formats.



# 5.7 Operation and Maintenance (O&M Expenses)

Operation & Maintenance expenses comprise of the following heads of expenditure viz.

- Employee Expenses
- Administration & General Expenses
- Repairs & Maintenance Expenses

The JERC MYT regulations, 2021 notifies formula based on the same O&M expense for the nth year of the control period shall be approved by Hon'ble Commission. The relevant extract of the Regulation is mentioned as follows.

"52.3 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 distribution Licensee, estimates of the actuals for the Base Year, prudence check and any other factors considered appropriate by the Commission

52.4 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 + *E*M*P*n + *A*&*G*n) x (1 - Xn) + Terminal Liabilities

Where,

R&Mn = K x GFAn-1 x (1+WPlinflation)

EMPn = (EMPn-1) x (1+Gn) x (1+CPlinflation)

A&Gn = (A&Gn-1) x (1+CPlinflation)

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

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



*EMPn* – *Employee expenses of the Distribution Licensee for the nth Year;* 

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

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

GFAn-1 – Gross Fixed Asset of the Distribution Licensee for the n-1th Year;

Xn is an efficiency factor for nth Year. Value of Xn 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;

Gn is a growth factor for the nth Year. Value of Gn 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: - While projecting employee cost for the FY 2023-24 EDG has considered FY 2022-23 as base year. It is submitted that the last available provisional accounts are of FY 2020-21 and FY 2021-22. Accordingly, EDG has considered the provisional actual values of FY 2020-21 to FY 2021-22 to compute the base year FY 2022-23. Employee expenses for FY 2023-24 is projected based on the methodology as provided in the Regulations. For FY 2022-23 (base year), employee expenses are arrived by escalating the mid average of FY 2020-21 by considering the average of FY 2019-20, FY 2020-21, FY 2021-22 by CPI inflation. As per regulation, CPI inflation of three preceding years to be considered. Hence EDG has considered average of CPI inflation for FY 2019-20 to FY 2021-22. Working of the same is provided as under:-

Table 5-15: Calculation of	CPI rate c	considered f	for Employ	ee Cost projection	1

Particulars	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24
CPI based on Industrial Workers, All India	322.50	338.69	356.06	373.10	373.10
YoY		5.02%	5.13%	4.79%	0.00%
3 years average		6.00%	5.89%	5.89%	5.89%



		O&M Expenses				3-Year
<b>c</b>		FY	FY	FY	3-Year Average	Average
S.	Particulars	2019-20	2020-21	2021-22		
No.		(a)	(b)	(c)	(d) = [(a)+(b)+(c)]/3	CPI Inflation (%)
1	Actual Employee Expenses	340.39	332.21	353.55	342.05	5.89%

Further, as per Regulation 52 of JERC MYT Regulation, 2021, Gn factor is a growth factor which will be approved by Hon'ble Commission to meet the additional manpower requirement proposed tariff filing. EDG submits that on calculation of Gn factor for FY 2023-24 by considering the employee strength in the past few years, provide a negative growth trend. Accordingly, for the purpose of projection for the FY 2023-24, the Petitioner has considered the growth factor Gn as 0.63%.

Computation of employee cost for FY 2023-24 is provided as under:

Particulars	Units	Projections
Particulars	Units	FY 2023-24
Employee Cost for nth-1 year (A)	Rs.Crs	408.71
Gn Factor (Y-O-Y) (B)	%	0.63%
CPI Inflation (C)	%	5.89%
Employee Cost for nth year D= A*(1+B)*(1+C)	Rs.Crs	435.52

 Table 5-16: Calculation of Employee cost for FY 2023-24

**Repairs and Maintenance Expense**: - In line with JERC MYT regulations, 2021, R&M expense for is calculated for FY 2022-23 considered as base year. It is submitted that the last available provisional accounts are of FY 2020-21 and FY 2021-22. Accordingly, EDG has considered the provisional actual values of FY 2020-21 to FY 2021-22 to compute the base year FY 2022-23.

As per JERC MYT regulations, 2021, average of preceding three years of WPI considered in above calculation of R&M expense. Calculation of average rate of WPI of 5.32% is shown below.



Escalation rate working	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24
WPI based on Office of Economic Advisor, Gol	121.80	123.38	139.41	153.50	153.50
YoY		1.29%	13.00%	10.11%	0.00%
3 years average		2.42%	5.32%	5.32%	5.32%

Table 5-17: Calculation of R&M Expense for FY 2023-24

		R 8	& M Expens	ses		3-Year	FY 2022-
		FY	FY	FY	3-Year Average	Average	23 (Base
S.	Particulars	2020-21	2021-22	2022-23			Year)
No.		(a)	(b)	(c)	(d) = [(a)+(b)+(c)]/3	WPI Inflation (%)	(e)
1	Actual R&M Expenses	32.98	12.48	60.77	35.41	4.98%	30.59

K factor is calculated as ratio of actual R&M over GFA. The K factor considered is as under:

R&M Expenses	FY 2020-21	FY 2021-22	FY 2022-23
R&M exp	26.91	26.20	60.77
Opening GFA	1,274.13	1,398.63	1,443.85
K factor	2.11%	1.87%	4.21%
Avg of K factor			2.73%

The R&M expenses projected for FY 2023-24 as per the Regulations is 45.06 Crore. However, the R&M expenses for FY 2022-23 H1 (actual) is Rs. 31.21 Crore. So, the projection of EDG Accounts dept and Technical dept is considered at 75% of FY 2022-23 H1 for the FY 2022-23 H2 which is arrived at Rs. 54.62 Crore which is comparatively higher than the R&M expenses as per the Regulations. So, the R&M expenses arrived for FY 2022-23 is considered for FY 2023-24.

Accordingly, R&M expense projected for FY 2023-24, as per Regulations and considered for ARR is as under:

Particulars	Units	Projections
Faiticulais	Onits	FY 2023-24
GFA for nth-1 year (A)	Rs.Crs	1566.39
K factor (R&M Cost/GFA) (B)	%	2.73%

#### Table 5-18: R&M Expense for FY 2023-24



Particulars	Units	Projections FY 2023-24
WPI Inflation (C)	%	5.32%
R&M Cost for nth year D= A*B*(1+C)	Rs.Crs	45.06
Considered for ARR	Rs Crs	54.62

Administrative and General Expenses: EDG has considered FY 2022-23 as base year. It is submitted that the last available accounts are of FY 2020-21 and FY 2021-22. Accordingly, EDG has considered the provisional actual values of FY 2020-21 to FY 2020-22 to compute the base year FY 2022-23. A&G expenses for FY 2023-24 is projected based on the methodology as provided in the Regulations. For FY 2022-23 (base year), A&G expenses are arrived by escalating the average (FY 2020-21) by CPI inflation. As per regulation, CPI inflation of three preceding years to be considered. Hence EDG has considered average of CPI inflation for FY 2019-20 to FY 2021-22. Working of the same is provided as under:-

#### Table 5-19: Calculation of CPI rate considered for Employee Cost projection

Particulars	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24
CPI based on Industrial Workers, All India	322.50	338.69	356.06	373.10	373.10
YoY		5.02%	5.13%	4.79%	0.00%
3 years average		6.00%	5.89%	5.89%	5.89%

		A	&G Expense	es	3-Year		FY 2022-23
S.	Particulars	FY 2019-20	FY 2020-21	FY 2021-22	3-Year Average	Average	(Base Year)
No.		(a)	(b)	(c)	(d) = [(a)+(b)+(c)]/3	CPI Inflation (%)	(e)
1	Actual A&G Expenses	26.91	26.20	39.79	30.97	5.89%	31.87

Accordingly, calculation of A&G expense for FY 2023-24 is provided below:-

#### Table 5-20: A&G Expense for FY 2023-24

Particulars	Units	Projections FY 2023-24
A&G Cost for nth-1 year (A)	Rs.Crs	33.74
CPI Inflation (B)	%	5.89%
A&G Cost for nth year D= A*(1+B)	Rs.Crs	35.73



Total O&M expenses projected for the FY 2023-24 are as under:

		FY 2023-24		
S. No.	Particulars	Approved in Tariff Order dt. 31-03-2022	Projected	
1	Employee Expenses	354.39	435.52	
2	A&G Expenses	36.11	35.73	
3	R & M Expenses	82.28	54.62	
4	Total O&M Expenses	472.78	525.87	

## Table 5-21: O&M Expenses for FY 2023-24 (Rs.Cr.)

## 5.8 Capital expenditure and Capitalisation

The 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."

As per above provisions of Capital investment plan, EDG has submitted the proposed plan of Capex and Capitalisation in the Business Plan petition against which the Hon`ble Commission has approved the same in Business Plan Order dt 31-03-2022. Accordingly, the revised projections of Capex and Capitalisation for FY 2023-24 is submitted in the following.

Summary of the Capex and Capitalisation is tabulated as under:

		Capital expenditure		Capitalisation	
S.No	Name of scheme	FY 2023-24	FY 2023-24	FY 2023-24	FY 2023-24
3.110	Name of scheme	Approved	Revised Projection	Approved	Revised Projection
Existin	ng Schemes			1	
A1	Schedule Tribe Development Scheme (P)		38.83		44.83
A2	Infrastructure development through Electricity Duty (Plan)	39.01	69.21	39.01	63.20
A3	Erection and Augmentation of 33/11 KV S/S line (Plan)		10.00		10.00
A4	Normal Development Schemes (Plan)	6.00	6.00	6.00	6.00
A5	System Improvement Schemes (Plan)		6.00		6.00
A6	Construction of staff quarters and office buildings (Plan)		26.00		5.00
A7	Strengthening of 220 KV Transmission Network		21.00		21.00
A8	Erection of 220/110/33/11 KV Sub- Station at Verna (New)		-		-
A9	Restructured Accelerated Power Development and Reforms Programme Part A		5.00		-
A10	Underground Cabling		117.50		229.50
A11	R-APDRP Part B / IPDS		-		-
A12	EHV new Transmission / Sub-Station / Capacitor banks schemes		-		-
B1	Smart grid Development of existing network		-		-
B2	Sub-transmission and distribution improvement scheme		20.00		20.00
	Sub- Total (existing schemes)	45.01	319.54	45.01	405.63
				ļ	
New S	chemes				

#### Table 5-22: Capital Expenditure & Capitalisation Spilled schemes upto FY 2023-24 (Rs.Cr.)



	Name of scheme	Capital expenditure		Capitalisation	
S.No		FY 2023-24	FY 2023-24	FY 2023-24	FY 2023-24
		Approved	Revised Projection	Approved	Revised Projection
Α	Projects with Administrative approval	74.75	113.72	74.75	73.72
В	Projects Approved by EFC	96.84	286.00	96.84	153.00
С	Projects tendered (To start next year)	62.00	117.84	82.00	132.84
D	New EHV Works	0.00	272.00	0.00	62.00
E	<b>REVAMPED</b> Distribution Projects	450.00	240.56	425.00	240.56
F	Sub-Total New Schemes	683.58	1030.12	678.58	662.12
G	Existing Schemes + New Schemes	728.59	1349.66	723.59	1,067.75
	TOTAL	728.59	1,349.66	723.59	1,067.75
н	DEPOSIT WORKS	0.00	18.90	0.00	50.94
	GRAND TOTAL	728.59	1,368.56	723.59	1,118.69

It is submitted that the scheme wise details of capital expenditure and capitalization has also been provided in Format 7 & Format 10 of Tariff Filing Formats. Further, the financing plan of CAPEX is as under:

Table 5-23: Source of	Funds for FY 2023-24
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S.No	Sources of Funds	FY 2023-24
Α	Total Capital Expenditure	1,349.66
	(without deposit works)	1,549.00
В	Electricity Duty Fund	702.77
С	Grant	112.58
D	Total Capital Expenditure	
	(excluding Electricity Duty Fund	534.31
	and Grant) (A-B-C)	
E	Debt (%)	70%
F	Equity (%)	30%
G	Normative Debt (D x E)	374.01
н	Equity (INR Cr) (D x F)	160.29



In terms of above, the financing of the capitalization i.e. GFA addition during FY 2023-24 has also been projected by EDG. EDG further submits that, since depreciation, Interest on loan and return on equity is not allowed on the assets created through grants and electricity duty fund or any subsidy.

Following is the calculation of net GFA/Capitalisation after removal of grant and electricity duty portion.

S.No	Particulars	Approved in Tariff Order dt. 31-03-2022	Projections FY 2023-24
1	Additions to GFA	723.59	1,067.75
2	Less: 60% and 75% Grant Component of APDRP Part-B / IPDS scheme		-
3	Less: Revamped Scheme (15% Grant Prepaid Meter; 100% for DBM, billing modules etc; 60% for SCADA)	728.6	180.58
4	Less: Schemes out of ED Fund	218.10	321.76
5	Net Additions to GFA	250.24	565.41
6	Debt (%)	70%	70%
7	Equity (%)	30%	30%
8	Normative Debt addition (INR Cr)	175.17	395.78
9	Equity addition (INR Cr)	75.07	169.62

#### Table 5-24: Net addition to GFA for FY 2023-24

### 5.9 Depreciation

The 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.

Provided further that the salvage value of Information Technology equipment and computer software shall be considered at zero (0) per cent of the allowable capital cost.

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:

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 calculated annually, based on the Straight Line Method, over the Useful Life of the asset at rates specified in Appendix I of these 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.

31.10 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."

As stated in the above Regulation and as per the MYT formats provided by the Hon`ble Commission, EDG has computed depreciation as per new depreciation rate specified in the MYT regulations 2021. Further, 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 has been arrived in Format 15 of the MYT Tariff formats.

In line with above, the following table shows the depreciation projected by EDG for the FY 2023-24

Particulars	Approved in Tariff Order dt. 31-03- 2022	Projections FY 2023-24
Opening Gross Fixed Assets (excluding Grants/ consumers Contribution etc)	1493.43	1454.50
Add: Gross Asset Addition	250.24	1,067.75
Less: Contribution from Subsidies/ Grants/ Beneficiaries' Contribution / Consumers Contribution		502.34
Value of Asset eligible for depreciation		565.41
Add: Addition During the Year		565.41
Less: Decapitalisation	0.00	
<b>Closing Gross Fixed Assets</b> (excluding Grants/ consumers Contribution etc.)	1743.67	2019.91
Average Gross Fixed Assets (excluding Grants/ consumers Contribution etc.)	1618.55	1737.20

Table 5-25: Depreciation	for FY 2023	-24 (Rs.Cr.)
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Particulars	Approved in Tariff Order dt. 31-03- 2022	Projections FY 2023-24
Depreciation	61.84	77.75
Wt. Avg Rate of Depreciation	3.82%	4.48%

#### 5.10 Interest on Loan

The MYT Regulations, 2021 specifies the following provisions for projection of Interest on Loan.

#### "29 Interest on Loan

29.1 The loans arrived at in the manner indicated in Regulation 27 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-capitalisation 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 decapitalised or retired or replaced assets, based on documentary evidence.

29.2 The normative loan outstanding as on April 1, 2022, shall be worked out by deducting the cumulative repayment as admitted by the Commission up to March 31, 2021, from the gross normative loan.

29.3 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 31.

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 after prudence check:

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.

29.5 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 capitalisation approved by the Commission for the Year.

29.6 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.

29.7 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.

29.8 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.

29.9 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 or Distribution 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.

29.10 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; i.e., the Transmission Licensee and the Distribution Licensee or the Distribution Licensee and the Consumers of Distribution Licensee.

29.11 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."

EDG doesn't have any actual loan in EDG's books, hence normative loan has been calculated in line with above regulations. Accordingly, the Interest rate charged has been considered as then one (1) Year State Bank of India (SBI) MCLR plus 100 basis points, which works out to be 8.00%. Further, EDG has considered the closing normative loan base for FY 2021-22 (arrived by considering provisional actual figures from FY 2017-18 to FY 2020-21 & APR of FY 2021-22), as opening normative loan base for FY 2021-22 and the normative debt addition due to asset addition for the year as discussed in the above section. Further, the normative repayment has been considered the depreciation projected for the particular year.

In line with above methodology, following is calculation of the normative interest on loan shown:

Particulars	Approved in Tariff Order dt. 31-03-2022	Projections FY 2023-24
Opening Normative Loan	332.94	401.71
Add: Normative Loan during the year/GFA during the year	175.17	395.78
Less: Normative Repayment for the year	61.84	77.55
Closing Normative Loan	446.27	719.75
Average Normative Loan	389.61	560.73
Rate of Interest	8.00%	8.00%
Interest on Normative Loan	31.17	44.86

#### Table 5-26: Normative Interest on Loan for FY 2023-24 (Rs. Cr.)

The detailed calculation has been provided in Format 12 of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the interest on loan as shown in the table above.

### 5.11 Return on Equity

The MYT Regulations, 2021 specifies the following provisions for projection of Return on Equity.

"28 Return on Equity

28.1 Return on equity shall be computed on the paid up equity capital determined in accordance with Regulation 27 for the assets put to use for the Transmission Licensee and shall be allowed in accordance with the prevalent CERC Tariff Regulations for transmission system.

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.

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.

Further, provision of debt to equity ratio specified in the MYT regulation 2021 as under:-

# "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 utilised 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 these Regulations.

Opening equity for FY 2023-24 is taken as per closing normative equity for FY 2022-23 calculated in previous chapter, further equity addition during the year is considered 30% of the capitalisation (excluding capitalisation through grant and electricity duty fund) in line with above specified regulations.

The following table shows the calculation of return on equity for the FY 2023-24.

Particulars	Approved in Tariff Order dt. 31-03-2022	Projections FY 2023-24
Opening Balance of Equity	448.62	428.91
Net Additions during the Year	75.07	169.62
Closing Balance of Equity	523.70	598.53
Average Equity	486.16	513.72
Average Equity (Wires Business)	437.54	462.35
Average Equity (Retail Supply Business)	48.62	51.37
Rate of Return on Equity for Wire Business %	15.50%	15.50%
RoE Wire Business	67.82	71.66
Rate of Return on Equity for Retail Supply Business %	16.00%	16.00%
RoE on Retail Supply business	7.78	8.22
Total RoE (Wire and Retail Supply business)	75.60	79.88

The detailed calculation has been provided in Format 16 of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the return on equity as shown in the table above.

### 5.12 Interest on Security Deposit

The opening security deposit is considered from the closing balance of deposit arrived for FY 2021-22. Addition of consumer security deposit projected as per new consumer



expected to connect in FY 2023-24. The interest rate considered is 4.25% based on the RBI bank rate applicable on the 1st April of the financial year in which tariff petition is being filed.

The following table shows the interest on security deposit for FY 2023-24.

Particulars	Approved in Tariff Order dt. 31-03-2022	Projections FY 2023-24
Opening Security Deposit	92.31	112.58
Additions during the year	16.16	27.55
Less: Deposits Refunded	0.38	-
Closing Security Deposit	108.09	
Average Security Deposit	100.20	140.13
Rate of Interest (%)	4.25%	4.25%
Interest on Security Deposit	4.26	5.37
Interest on Security Deposit to be paid and claimed in ARR	-	5.37

Table 5-28: Interest on Security Deposit for FY 2023-24 (Rs. Cr.)

The detailed calculation has been provided in Format 22B of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the interest on security deposit as shown in the table above.

# 5.13 Interest on Working Capital

The MYT Regulations, 2021 specifies the following provisions for projection of Interest on Working Capital.

### "32 Interest on Working Capital

32.1 The norms for working capital for Transmission Licensee shall be as specified in Chapter 5 of these Regulations.

32.2 The norms for working capital for Distribution Wires Business and Retail Supply Business shall be as specified in Chapter 6 and Chapter 7 of these Regulations respectively.

32.3 The interest on working capital shall be a payable on normative basis notwithstanding that the Licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan based on the normative figures.



32.4 The rate of interest on working capital shall be equal 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 1<sup>st</sup> April of the Financial Year in which the Petition is filed plus 200 basis points."

In line with above provisions stated in MYT Regulations, 2021. EDG has calculated the working capital requirement. As on 1<sup>st</sup> April 2021, MCLR rate is at 7.00% plus 200 basis point. Hence Interest rate of 9.00% is considered to calculate the Interest on working capital loan for FY 2023-24.

Following table shows the Interest on working capital loan for FY 2023-24:

For Wheeling Business			
S.	Particulars	Ref. Form	Projections
No.	Particulars	No.	FY 2023-24
Α	O&M Expenses for Wire Business		
i)	R&M Expenses		49.16
ii)	A&G Expenses		17.87
iii)	Employee Cost		174.21
iv)	Total O&M Expenses		241.23
v)	O&M Expenses for wire business for 1 month		20.10
В	Maintenance Spares (@ 40% of R&M Expenses)		1.64
С	Receivables equivalent to two (2) month of the expected revenue from charges for use of Distribution Wires at the prevailing tariffs.	Fixed Charges	56.86
D	Less: Amount, if any, held as security deposits from Distribution System Users		12.64
E	Total Working Capital (A (v)+B+C-D)		65.96
F	Rate of Interest		9.00%
G	Interest on Working Capital		5.94

### Table 5-29: Interest on working capital for FY 2023-24 (Rs. Cr.)

For Retail Supply Business			
S. No.	Particulars	Ref. Form No.	Projections FY 2023-24
А	O&M Expenses for Retail Supply Business		
i)	R&M Expenses	_	5.46
ii)	A&G Expenes	_	17.87
iii)	Employee Cost	_	261.31
iv)	Total O&M Expenses		284.64



For Retail Supply Business				
S. No.	Particulars		Projections	
<b>3. NO.</b>	Falticulais		FY 2023-24	
v)	O&M Expenses for retail supply business for 1 month		23.72	
В	Maintenance Spares (@40% of R&M Expenses for Retail Supply Business)		0.18	
С	Receivables equivalent to 2 months of average of total revenue from sale of energy, approved by Commission in the ARR	Energy Charges	375.10	
D	Less: Consumer Security Deposit		113.72	
E	Less: One month of power procurement cost		167.83	
F	Total Working Capital (A (v) + B + C - D -E)		117.46	
G	Rate of Interest		9.00%	
Н	Interest on Working Capital		10.57	

The detailed calculation has been provided in Format 14 of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the interest on working capital shown in the table above as per MYT Regulation 2021. Further, IWC for wire and supply business has been computed based on the allocation provided in the Regulations.

### 5.14 Non-Tariff Income

The Regulatory provisions for Non-Tariff Income have been stated below.

"54 Non-Tariff Income

54.1 The amount of Non-Tariff Income relating to the Distribution Wires Business as approved by the Commission shall be deducted from the Aggregate Revenue Requirement in determining the wheeling charges of Distribution Wires Business of the Distribution Licensee:

Provided that the Distribution Licensee shall submit full details of its forecast of Non-Tariff Income to the Commission along with its application for determination of wheeling charges.

54.2 The Non-Tariff Income shall inter-alia include:



- a) Income from rent of land or buildings;
- b) Income from sale of scrap in excess of 10% of the salvage value;
- c) Income from statutory investments;
- *d) Income from interest on contingency reserve investment;*
- e) Interest on advances to suppliers/contractors;
- f) Rental from staff quarters;
- g) Rental from contractors;
- *h*) Income from hire charges from contactors and others;
- i) Income from advertisements, etc.;
- j) Miscellaneous receipts;
- k) Excess found on physical verification;
- I) Deferred Income from grant, subsidy, etc., as per Annual Accounts;
- *m) Prior period income, etc.:*

Provided that the interest/dividend earned from investments made out of Return on Equity corresponding to the Distribution Wires Business of the Distribution Licensee shall not be included in Non-Tariff Income."

The following table shows the Non-tariff Income as projected by EDG.

S. No.	Particulars	Approved in Tariff Order dt. 31-03-2022	Projections FY 2023-24
1	Meter/metering equipment/service line		
1	rentals		
2	Service Charges		
3	Customer Charges		
4	Revenue from Late Payment Surcharge		
5	Miscellaneous Charges		
6	Incentives from CGSs		
7	Miscellaneous Receipts		22.01
8	Interest on advances to suppliers/contractors		
9	Interest on Staff Loans and Advances		
10	Income from Trading		

 Table 5-30: Non-Tariff Income for FY 2023-24 (Rs. Crore)



S. No.	Particulars	Approved in Tariff Order dt. 31-03-2022	Projections FY 2023-24
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	Sale Proceeds of dead stock, waste paper etc		7.92
16	Any other Income not included above		
	Total	29.20	29.93

EDG request Hon'ble Commission to approve above mentioned Non-Tariff income for FY 2023-24.

## 5.15 Aggregate Revenue Requirement for FY 2023-24

The Net Revenue Requirement derived for FY 2023-24based on the expenses discussed in the previous sections is shown in the table below.

Sr. No.	Particulars	Approved in Tariff Order dt. 31-03- 2022	Projections FY 2023-24
Α	Receipts		
1	Revenue from Sale of Power		2,250.60
В	Expenditure		
1	Cost of Power Purchase from Own Generating Stations		-
2	Cost of Power Purchase from other Generating Stations	1,900.80	2,013.94
3	Inter State Transmission Charges		-
4	Intra State Transmission Charges		-
5	SLDC Fees & Charges		-
6	O&M Expenses (Gross)	472.78	525.87
	a) R&M Expenses		54.62
	b) Employee Cost		435.52
	c) A&G Expenses		35.73
7	Depreciation	61.84	77.75



Sr. No.	Particulars	Approved in Tariff Order dt. 31-03- 2022	Projections FY 2023-24
8	Interest and Finance Charges	31.17	44.86
9	Interest on Working Capital	18.60	16.51
10	Prior Period Expenses		-
	Interest on Consumer Security Deposit	4.26	5.37
11	Extraordinary Items		-
12	Bad and Doubtful Debts		-
13	Other Debts and Write-offs		-
14	Statutory Levies and Taxes, if any		-
15	Less: Expenses Capitalised		
	a) Interest Charges Capitalized		-
	b) R&M Expenses Capitalized		-
	c) A&G Expenses Capitalized		-
	d) Employee Cost Capitalized		-
	Sub Total (a+b+c+d)		-
	Sub Total Expenditure (1 to 14-15)		2,684.30
С	Return on Equity	75.60	79.88
D	Less: Non Tariff and other Income	26.32	29.93
E	Less: Any Grant/ Subventions, other subsidy provided by the Government		-
F	Annual Revenue Requirement (B+C-D-E)	2,538.73	2,734.25
G	Revenue Gap 'Surplus (+) / Shortfall (-) (A-F) - Before Tariff Revision		-483.65

EDG request Hon'ble Commission to approve net Revenue requirement of Rs. 2734.25 Cr, for FY 2023-24 respectively.

### 5.16 Revenue from Sale of Power at Existing Tariff

The Revenue from sale of power at existing tariff rates (approved by Hon`ble Commission for FY 2022-23) by ED-Goa for FY 2023-24 is outlined below. The detailed computation has been provided in Format F 23 of the MYT Tariff Formats.



## Table 5-32: Revenue from Sale of Power at existing Tariff from FY 2023-24 (Rs. Cr.)

			Revenue for FY 2022-23 from approved retail tariff determined by Commission (In INR Cr) FY 2022-23				Revenue for FY 2023-24 from existing retail tariff determined by Commission (In INR Cr) FY 2023-23				
SI.	Category	Ful	l year revei	nue (Rs. Cro	ore)		Fu	III year reve	enue (Rs. Croi	re)	
No.	Category	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)
1	Domestic	1386.33	36.93	361.03	397.96	2.87	1386.73	45.21	372.34	417.56	3.01
(i)	LT-D Domestic	1384.58	36.89	360.84	397.74	2.87	1385.41	45.16	372.16	417.32	3.01
	0-100 units	544.79	11.8	87.17	98.96	1.82	501.44	13.78	80.23	94.01	1.87
	101-200 units	331.54	9.07	77.91	86.98	2.62	326.50	9.94	76.73	86.67	2.65
	201-300 units	175.22	6.17	51.69	57.86	3.3	187.54	7.80	55.32	63.12	3.37
	301-400 units	96.5	3.48	37.64	41.12	4.26	109.83	4.67	42.83	47.50	4.33
	Above 400 units	236.53	6.38	106.44	112.82	4.77	260.09	8.96	117.04	126.00	4.84
(ii)	Low Income Group	1.37	0	-	0	0.02	0.93	0.00	-	0.00	0.02
(iii)	HT-D Domestic	0.38	0.03	0.18	0.22	5.75	0.39	0.05	0.19	0.24	6.16
2	Commercial	607.53	44.89	301.75	346.64	5.71	682.75	62.86	338.22	401.08	5.87
(i)	LT-C Commercial	472.52	21.79	228.11	249.9	5.29	511.86	23.53	247.40	270.93	5.29
	0-100 units	77.99	4.59	27.69	32.28	4.14	82.09	6.62	29.14	35.76	4.36
	101-200 units	47.8	1.69	20.79	22.49	4.7	52.03	2.07	22.63	24.70	4.75
	201-400 units	60.12	3.14	29.16	32.3	5.37	67.12	2.64	32.55	35.20	5.24
	Above 400 units	286.61	12.36	150.47	162.83	5.68	310.61	12.21	163.07	175.28	5.64
(ii)	HT-C Commercial	135.02	23.1	73.64	96.74	7.17	170.89	39.33	90.82	130.15	7.62
3	Industrial	2139.85	189.41	1035.98	1225.39	5.73	2349.52	226.46	1136.74	1363.20	5.80
(i)	LT-I Industrial	80.91	7.05	31.07	38.12	4.71	93.79	9.39	36.08	45.47	4.85



			Revenue for FY 2022-23 from approved retail tariff determined by Commission (In INR Cr) FY 2022-23				Revenue for FY 2023-24 from existing retail tariff determined by Commission (In INR Cr) FY 2023-23				
SI.	Category	Ful	l year revei	nue (Rs. Cro	ore)		Fu	ll year reve	enue (Rs. Croi	re)	
No.		Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)
	0-500 units	16.18	3.4	5.5	8.9	5.5	17.63	4.33	5.99	10.33	5.86
	Above 500 units	64.73	3.66	25.57	29.22	4.51	76.17	5.06	30.09	35.14	4.61
(ii)	Low Tension- Mixed/LT-P (Hotel Industries)	4.48	0.14	2.35	2.49	2.49	4.16	0.15	2.19	2.34	5.62
(iii)	High Tension-I/HT-I	1499.12	157.91	734.68	892.58	892.58	1738.62	181.97	851.27	1033.24	5.94
	Connected at 11/33 kV	1247.94	135.2	616.15	751.36	751.36	1485.28	156.38	731.97	888.35	5.98
	Connected at 110 kV	251.18	22.7	118.52	141.22	141.22	253.34	25.59	119.30	144.89	5.72
(iv)	High Tension- Ferro/SM/PI/SR	555.35	24.31	267.89	292.2	292.2	512.94	34.95	247.20	282.15	5.50
4	Agriculture	33.62	1.71	5.88	7.59	7.59	41.95	2.38	7.31	9.69	2.31
(i)	Low Tension-AG/LT- AGP (Pump Sets/Irrigation)	17.29	1.09	2.59	3.69	3.69	19.05	1.37	2.86	4.23	2.22
(ii)	Low Tension-AG/LT- AGA (Allied Activities)	0.79	0.05	0.14	0.19	0.19	1.48	0.10	0.26	0.36	2.40
(iii)	High Tension-AG/HT- AGP (Pump Sets/Irrigation)	4.89	0.44	1.03	1.47	1.47	6.51	0.64	1.29	1.93	2.97



			Revenue for FY 2022-23 from approved retail tariff determined by Commission (In INR Cr) FY 2022-23				Revenue for FY 2023-24 from existing retail tariff determined by Commission (In INR Cr) FY 2023-23				
SI.	Category	Ful	l year rever	nue (Rs. Cro	ore)		Fu	ll year reve	nue (Rs. Cror	·e)	
No.	category	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)
(iv)	High Tension-AG/HT- AG (Allied Activities)	10.65	0.12	2.12	2.24	2.24	14.90	0.27	2.90	3.17	2.13
5	Military Engineering Services/ defense Establishments	26.96	1.73	13.7	15.43	15.43	33.43	2.21	17.20	19.41	5.81
6	Public Lighting	29.61	0.23	16.73	16.96	16.96	50.09	0.85	28.30	29.14	5.82
7	Hoardings/Signboards	0.16	0.04	0.16	0.2	0.2	0.34	0.05	0.34	0.39	11.41
8	Temporary	12.1	0	10.18	10.18	10.18	10.42	0.46	5.79	6.26	6.01
(i)	LT	9.77	0	8.07	8.07	8.07	4.09	0.46	0.25	0.72	1.75
	LT Domestic	0.69	0	0.3	0.3	0.3	1.06	0.07	0.25	0.33	
	LT Commercial	9.08	0	7.77	7.77	7.77	3.03	0.39	0.00	0.39	1.28
(ii)	HT	2.33	0	2.11	2.11	2.11	6.33	0.00	5.54	5.54	8.75
9	Single Point Supply	5.69	0.91	2.76	3.67	3.67	6.68	0.66	3.21	3.87	5.79
(i)	Residential Complexes	0	0	0	0	0	0.00	0.00	0.00	0.00	
(ii)	Commercial Complexes	5.69	0.91	2.76	3.67	3.67	6.68	0.66	3.21	3.87	5.79
(iii)	Industrial Complexes	0	0	0	0	0	0.00	0.00	0.00	0.00	
	TOTAL	4241.87	275.84	1748.18	2024.02	4.77	4561.91	341.14	1909.46	2250.60	4.93



The ABR for FY 2023-24 is higher compared to FY 2022-23, due to the higher fixed charge projected for FY 2023-24. The Connected Load for FY 2023-24 is comparatively higher when compared to FY 2022-23.

Based on the aggregate revenue requirement and revenue calculation based on the existing tariff, the revenue gap/ (surplus) for the FY 2023-24 has been computed. The revenue gap for FY 2023-24 is as shown in the table below:

Particulars	FY 2023-24
Net Revenue Requirement	2,734.25
Revenue from Sale of Power	2250.60
Revenue Gap during the Year	-483.65

## Table 5-33: Revenue Gap at existing Tariff for FY 2023-24 (Rs. Cr.)

Further, EDG submits that the gap is to proposed to be partially bridged by Tariff hike at 6.00% for FY 2023-24 and the remaining will be bridged through Government of Goa by providing budgetary support for the same.



#### 6 TARIFF PHILOSOPHY

#### 6.1 Preamble

This Chapter elucidates the proposed retail tariff and miscellaneous charges to be applicable for FY 2023-24. EDG prays to the Hon'ble Commission to approve the proposed retail tariff for FY 2023-24 as proposed for different categories of consumers, applicable from 1<sup>st</sup> April 2023.

#### 6.2 Tariff Design Principles

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 Goa. 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, the Hon'ble Commission, in this order too, may apply similar principles keeping in view the ground realities.

#### 6.3 Philosophy of Tariff Design

EDG submits that gap of FY 2023-24 is proposed to be bridged partially through tariff hike and remaining through budgetary support.

EDG has filed the True-up Petitions for FY 2017-18, FY 2018-19 & FY 2019-20 before the Hon'ble JERC in August 2022 and Public hearing for the same has also been conducted.

Financial Accounts for FY 2020-21 & FY 2021-22 are completed. The CAG audit team is auditing the accounts. Upon completion of the audit of the Accounts for FY 2020-21 & FY 2021-22 the True-up Petitions for FY 2020-21 & FY 2021-22 will be submitted before the Hon'ble JERC by December 20, 2022.

Further, the revenue gap may be provisionally recognized by the Hon'ble Commission and due treatment be given for recovery at a later date when petition for True-ups are filed based on actual accounts / figures of revenue gap. However, revenue gap on account of True-ups of FY 2020-21 & FY 2021-22 will not be passed over to the Consumers of EDG on account of Budgetary Support letters issued by Government of Goa from time to time.

For the FY 2023-24, the Government of Goa has decided to increase the tariff for consumers as is being levied on them currently. Accordingly, to partially bridge the huge revenue gap and to avoid the tariff shock to consumers, EDG proposes increase



## in current Tariff.

However, for the Category of HT Military Engineering Services/ Defense Establishment, EDG proposes no tariff hike in view of letter from Hon'ble Defense Minister of India addressed to Hon'ble Chief Minister of Goa requesting to propose tariff slab for Armed Forces at par or lower than that applicable to the domestic consumers. The Letter is attached in the **Annexure-2**.

As stated above, EDG proposes the revised retail tariff for FY 2023-24 and the same is tabulated below as:



## Table 6-1: Proposed Tariff Structure for FY 2023-24

		Tariff approved by J	ERC in T.O.	Duran d Tar	Droposed Toyiff for EV 2022-24					
		dated 31 <sup>st</sup> March 2022 w.e	e.f. 01 <sup>st</sup> April 2022	Proposed Tariff for FY 2023-24						
S. No.	Category	Fixed Charges (INR/kWh)		Fixed Charges	Energy Charges (INR/kWh)					
			(INK/KVVN)		Units	Rate				
1			Domestic							
		Low Tension-D/LT-D								
	0-100 units		1.6		Rs/kWh	1.75				
Α	101-200 units		2.35		Rs/kWh	2.60				
~	201 to 300 units	INR 20/kW/Month	2.95	INR 22/kW/Month	Rs/kWh	3.30				
	301 to 400 units		3.90		Rs/kWh	4.40				
	Above 400 units		4.50		Rs/kWh	5.10				
В		Low	Tension-LIG/LT-LIG							
Б	Consumption up to 50 Units p.m	INR 20/kW/Month	-	INR 22/kW/Month	Rs/kWh	-				
6		High	n Tension-D/HT-D							
С	All Units	INR 110/kVA/Month	4.60	INR 125/kVA/Month	Rs/kVAh	5.30				
2			Commercial							
		Lov	v Tension-C/LT-C							
	0-100 units	For consumers with Load	3.55	For consumers with Load	Rs/kWh	4.00				
	101-200 units	upto 20 kW INR 40/kW/Month	4.35	upto 20 kW INR 45/kW/Month	Rs/kWh	4.85				
Α	201 units- 400 units		4.85	For consumers with Load	Rs/kWh	5.50				
		For consumers with Load more than 20 kW and upto		more than 20 kW and	·					
	Above 400 units	90 kW INR 60/kW/Month	5.25	upto 90 kW INR	Rs/kWh	6.00				
				70/kW/Month						
В			h Tension-C/HT-C		D (1) (4)	6.00				
	All Units	INR 250/kVA/month	5.25	INR 285/kVA/month	Rs/kVAh	6.00				
3			Industrial							
			w Tension-I/LT-I		D (1)4(1	2.50				
Α	0-500 units	INR 40/HP/Month	3.40	INR 41/HP/Month	Rs/kWh	3.50				
	Above 500 units	INR 40/HP/Month	3.95	INR 41/HP/Month	Rs/kWh	4.05				
В			lixed/LT-P (Hotel Ind	· · ·	<b>5</b> (1) 1 1					
5	All Units	INR 50/kW/Month	5.25	INR 55/kW/Month	Rs/kWh	5.60				



		Tariff approved by JERC in T.O.				_	
		dated 31 <sup>st</sup> March 2022 w.	e.f. 01 <sup>st</sup> April 2022	Proposed Tariff for FY 2023-24			
S. No.	Category	Fixed Charges	Energy Charges (INR/kWh)	Fixed Charges	Energy Charges (INR/kWh		
					Units	Rate	
			gh Tension-I/HT-I	1	,		
С	Connected at 11/33 kV	INR 250/kVA/Month	4.80	INR 255/kVA/Month	Rs/kVAh	4.90	
	Connected at 110 kV	INR 250/kVA/Month	4.70	INR 255/kVA/Month	Rs/kVAh	4.80	
D			sion- Ferro/SM/ PI/	SR			
	All Units	INR 250/kVA/Month	4.80	INR 255/kVA/Month	Rs/kVAh	4.90	
4			Agricultural				
Α		Low Tension-AG	/LT-AGP (Pump Sets/	Irrigation)			
	All Units	INR 18/HP/Month	1.5	INR 20/HP/Month	Rs/kWh	1.60	
В			AG/LT-AGA (Allied Ac	-	,		
	All Units	INR 25/HP/Month	1.75	INR 27/HP/Month	Rs/kWh	2.00	
с	High Tension-AG/HT-AGP (Pump Sets/Irrigation)						
<u> </u>	All Units	INR 40/kVA/Month	1.60	INR 42/kVA/Month	Rs/kVAh	1.70	
D	High Tension-AG/HT-AG (Allied Activities)						
	All Units	INR 70/kVA/Month	1.95	INR 77/kVA/Month	Rs/kVAh	2.15	
5		Military Engineering	Services/ defense Es	stablishments	,		
	All Units	INR 200/kVA/Month	4.90	INR 200/kVA/Month	Rs/kVAh	4.90	
6			Public Lighting				
	All Units	INR 70/kW/Month	5.65	INR 72/kW/Month	Rs/kWh	5.80	
7		Ноа	rdings/Signboards	·	u		
	All Units	INR 70/kVA/Month	10.00	INR 77/kVA/Month	Rs/kWh	11.00	
8		Те	emporary Supply	•			
		Tariff shall be Fixed/ Dema	nd charges (if any)	Tariff shall be Fixed/ Dema	and charges (if ar	y) plus energy	
		plus energy charges (for re	<b>e</b> , , , ,	charges (for relevant slab, if any) under corresponding			
Α	LT Temporary Domestic	under corresponding permar		permanent supply category plus 50% of both. For multi			
		plus 50% of b		activity pursuit, applicable Tariff for temporary connection			
		For multi activity pursuit, a	pplicable Tariff for	shall be with reference to that of commercial category for			
В	LT Temporary Commercial	temporary connection shall b	be with reference to	perma	nent supply.		



		Tariff approved by J		Proposed Tariff for FY 2023-24				
	_	dated 31 <sup>st</sup> March 2022 w.e	e.f. 01 <sup>st</sup> April 2022					
S. No.	Category	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges (INR/kWl			
			(INR/kWh)		Units	Rate		
с	HT Temporary	that of commercial categor supply.	ry for permanent					
9		Sin	gle Point Supply					
А	Residential Complexes	INR 110 per kVA per month or part thereof	3.55	INR 120 per kVA per month or part thereof	Rs/kVAh	3.90		
В	Commercial Complexes	INR 220 per kVA per month or part thereof	4.80	INR 240 per kVA per month or part thereof	Rs/kVAh	5.30		
С	Industrial Complexes	INR 220 per kVA per month or part thereof	4.40	INR 240 per kVA per month or part thereof	Rs/kVAh	4.90		
10		Electric V	ehicle Charging Stati	on				
	All Units	-	3.5*	-	Rs/kWh	3.70		

\*This tariff is applicable only for supply at HT. In case of LT supply, tariff will be INR 0.20/kVAh higher than the above tariff.



#### 6.4 General Conditions and Definitions

- a) These tariffs are proposed to be made applicable from 1st April 2023 and shall remain valid till further Orders of the Commission. Tariffs are subject to revision and/or surcharge that may be levied by ED-Goa from time to time as per the directives of the Commission.
- b) The tariffs are exclusive of electricity duty and taxes levied by the Government or other competent authority from time to time which are payable by the consumers in addition to the charges levied as per the tariffs.
- c) Unless otherwise agreed to, these tariffs for power supply are applicable for supply at one point only.
- d) Unless specifically stated to the contrary the figures of energy charges relate to rupee per unit (kWh for LT consumers and kVAh for HT & EHT Consumers) charge for energy consumed and fixed charge relates to a month.
- e) If the 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 a higher tariff is applicable, it shall be deemed as unauthorized use of electricity and shall be assessed under the provisions of section 126 of the Electricity Act, 2003 and Supply Code Regulation 2018 notified by the JERC.
- f) If connected load of a domestic category is found to be at variance with the sanctioned/contracted load as a result of replacement of appliances such as lamps, fans, fuses, switches, low voltage domestic appliances, fittings, it shall not fall under Section 126 and Section 135 of the EA 2003.
- g) Fixed charges, wherever applicable, will be charged on pro-rata basis from the date of release of connection. These shall be double in case bi-monthly billing is carried out and shall be proportionately calculated as per the number of days of billing, similarly, slabs of energy consumption shall also be considered accordingly in case of bi-monthly or periodic billing.
- h) The consumption for factory lighting/pump house lighting shall be billed as per respective main tariff category. A separate energy meter for recording energy consumed towards factory lighting for new installation need not be provided. For the existing installations, till the factory lighting meter's mains are shifted to main meter, the total energy consumption shall be arrived at by adding the energy consumption of the main energy meter and the factory lighting meter.
- Supply of power in all cases shall be subject to the execution of Agreement between the Electricity Department, Goa and consumers and as per the JERC (Electricity Supply Code) Regulation 2018. The other conditions, definitions etc. shall be applicable as per the Electricity Act 2003 and various JERC Regulations, such as Standards of



Performance, Supply Code, Conditions of Supply, Distribution Code etc., issued from time to time.

- j) Billing of Demand in excess of Contracted Demand:
- k) The billing 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 energy rate.
- The definition of the maximum demand would be in accordance with the provisions of the JERC (Electricity Supply Code) Regulations, 2018. If such over-drawl is more than 20% of the contracted demand, then the connection shall be disconnected immediately.
- m) Explanation:
- n) Assuming the contract demand as 100 kVA, maximum demand at 120 kVA and total energy consumption as 12000 units, then the consumption corresponding to the contract demand will be 10,000 units (12000 X 100/ 120) and consumption corresponding to the excess demand will be 2000 units. This excess demand of 20 kVA and excess consumption of 2000 units will be billed at twice the respective normal rate. E.g. in case of HTI/Industrial category at 11/33 kV, excess demand and consumption will be billed at the rate of Rs 510 per kVA per month and Rs 9.79/kWh respectively. Connections drawing more than 120 kVA shall be disconnected immediately.

## 6.5 Miscellaneous and General Charges

Fuel & Power Purchase Cost Adjustment (FPPCA) Formula:

The adjustment because of Fuel and Power Purchase Cost variation shall be calculated in accordance with the FPPCA formula separately notified by the Commission. The FPPCA charge will be determined based on the formula approved by Hon'ble Commission vide order date  $31^{st}$  March, 2022 and relevant directions, as may be given by the Hon'ble Commission from time to time and will be applicable to all consumer categories except for Below Poverty Line (BPL) and Agriculture consumers for their consumption.

The details for each quarter shall be available on Electricity Department, Government of Goa website at http://www.goaelectricity.gov.in/

The values of the 'K' factor applicable for the different consumer categories for use in the FPPCA formula shall be as specified in the respective Tariff Order. FPPCA

charges so worked out shall be recovered/ refunded in accordance with the terms and conditions specified in the FPPCA formula.

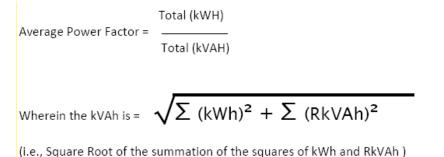
Electricity Duty & Public Lighting Duty:

The Electricity Duty and Public Lighting Duty will be charged as per Government guidelines from time to time in addition to charges as per the Commission approved tariffs mentioned hereunder. However, the rate and the reference number of the Government Resolution/ Order vide which the Electricity Duty and Public Lighting Duty is made effective, shall be stated in the bill. A copy of the said Resolution/Order shall be made available on Electricity Department, Government of Goa website at http://www.goaelectricity.gov.in/

Power Factor Calculation.

(Applicable for all HT, EHT categories and LT categories wherever approved by Commission in terms of Supply Code Regulations 2018)

Wherever, the average power factor measurement is not possible through the installed meter, the following method for calculating the average power factor during the billing period shall be adopted-



Power Factor Penalty:

EDG submits that since, kVAh based billing has an inbuilt incentive/penalty mechanism, separate mechanism for Power Factor Penalty is no more required for HT & EHT consumers.

The following are the provisions for Power Factor Penalty shall be applicable only for LT consumers:

The monthly average power factor of the supply shall be maintained by the consumer not less than 0.90 (lagging), If the monthly average power factor of (a) consumer falls below 90% (0.90 lagging), such consumer shall pay a surcharge in



addition to his normal tariff @ 1% on billed demand and energy charges for each fall of 1% in power factor upto 70% (lagging).

If the monthly average power factor falls below 70%, such consumer shall pay a surcharge in addition to his normal tariff @ 1.5% on billed demand and energy charges, FPPCA, and fixed/ Demand Charges but excluding Taxes and duties for each fall of 1% in power factor below 70% (lagging)

If the average power factor falls below 0.70 (lagging) consecutively for 3 months, the licensee reserves the right to disconnect the consumer's service connection without prejudice for the levy of the surcharge.

The power factor shall be rounded off to two decimal places. For example, 0.886 shall be treated as 0.89 and 0.884 shall be treated as 0.88.

Power Factor Incentive:

EDG submits that since, kVAh based billing has an inbuilt incentive/penalty mechanism, separate mechanism for Power Factor Penalty is no more required for HT & EHT consumers.

The following are the provisions for Power Factor Incentive which shall be applicable only for LT consumers:

In case the monthly average power factor of the consumer is more than 95% (0.95 lagging), a power factor incentive shall be given to the consumer as 1 % of monthly bill including energy charges, FPPCA, and fixed/ Demand Charges but excluding Taxes and duties for each increase of 0.01 in power factor above 0.95 (lagging)

The power factor shall be rounded off to two decimal places. For example, 0.944 shall be treated as 0.94 and 0.946 shall be treated as 0.95.

Payment Rebates:

<u>Advance Payment Rebate</u>: 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, taxes and duties) 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.

If payment is made in advance along with prior declaration of premises to be closed for a certain period of time, a rebate of 1% per month shall be given on the amount (excluding security deposit, taxes and duties) 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.

**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 (excluding taxes and duties) shall be given in case of cash payment. Those consumers having arrears shall not be entitled for such rebate and the amount paid

will first be used to set off past liabilities.

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.

Delayed Payment Charges (DPC):

In case the electricity bills are not paid within the due date mentioned on the bill, delayed payment charges of 1.5% (computed on a daily basis on the outstanding bill from the due date till the date of payment) shall be levied on the bill amount. However, if a consumer makes part payment of a bill (in exceptional circumstances, with prior approval of the Chief Electrical Engineer), within the due date, then the delayed payment charges shall be applicable only on the amount which was not paid within the due date.

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 the next rupee.

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 provision of the Electricity Act 2003 and Supply Code Regulations notified by JERC as amended from time to time.

In case of non-realization of payment through Cheque, a penalty of 5% of the cheque amount in addition to the Delayed Payment Charges (DPC) will be levied on the consumers.

Time of Day tariff (ToD):

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.



The maximum demand and consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.

Time of use	Demand Charges	Energy Charges
Normal period (7:00 a.m. to 6:00 p.m)	Normal Rate	Normal rate of energy charges
Evening peak load period (6:00 p.m to 11.00 p.m)	Normal Rate	120% of normal rate of energy charges
Off-peak load period (11:00 p.m to 7:00 a.m)	Normal Rate	90% of normal rate of energy charges

Applicability and Terms and Conditions of TOD tariff:

- o) TOD tariff is mandatory for HT/EHT consumers and shall be optional for LT industrial and commercial consumers.
- p) The facility of aforesaid TOD tariff shall not be available to HT/EHT consumers having captive power plants and/or availing supply from sources other than EDG through wheeling of power.
- q) The HT/EHT industrial consumers who have installed standby generating plants shall also be eligible for the aforesaid TOD tariff
- r) In the event of applicability of TOD tariff to a consumer, all other terms and conditions of the applicable tariff shall continue to apply.

## 6.6 Schedule of Miscellaneous Charges

There is no change proposed in the schedule of Miscellaneous charges for FY 2023-24 and are proposed to be retained as approved by the Hon'ble Commission vide its order dated 31<sup>st</sup> March 2022.

Description	Miscellaneous Charges				
Monthly Meter Rental Charges (As per provisions of (Electricity Supply Code) Regulations 2018)					
Single Phase LT meter	Rs 15/month				
Three Phase LT meter	Rs 25/month				
Three Phase LT meter with CTs	Rs 75/month				
LT Meter with MD Indicator	Rs 30/month				
LT Trivector meter with CT's	Rs 75/month				
Tri-vector Meter	Rs 1200/month				
Bi-directional meter	Rs.1500/month				

## Table 6-2: Schedule of Miscellaneous Charges



Description	Miscellaneous Charges			
Temporary Supply	Shall be twice as applicable in above meter types			
Changing or moving a Meter board	Actual Cost + 15%			
<ul> <li>Note:</li> <li>a. For all domestic and other LT loads less than 50 kW loads in Urban and Rural areas - Static sing phase / three phase meters</li> <li>b. For LT (contracted load ≥ 50 KW) / HT / EHT consumer – Static, 3 Phase Tri-vector meters with MDI (MD Display)</li> </ul>				
Reconnection Charge (As per provisions of (Electricity Supply Co				
LT Services – At Cut ou	ts			
Single Phase	Rs 25/-			
Three Phase	Rs 50/-			
LT Services – At Overhead	Mains			
Single Phase	Rs 30/-			
Three Phase	Rs 50/-			
LT Services – At Undergroun	d Mains			
Single Phase	Rs 75/-			
Three Phase	Rs 125/-			
HT Services				
HT Services	Rs 200/-			
Note: If the same consumer seeks reconnection within 12 m disconnection, 50% will be added to above charges	onths from the date of reconnection or			
Re-Rating of Installatio	ns			
Lighting Installation	Rs. 50/-			
Motive Power Installation	Rs. 100/-			
нт	Rs. 500/-			
Testing Fee for Various Metering (As per provisions (Electricity Supply Cod				
Single phase LT	Rs 25/energy meter			
Poly Phase LT without CT	Rs 50/energy meter			
L.T. meter with CTs/Demand or Special Type Meters	Rs 150/energy meter			
H.T and E.H.T. metering equipment	Rs 10,000/- at site			
Transformer Oil	Rs 200/- per sample			
	Rs.50/- per Sample			



Description	Miscellaneous Charges
Three Phase Tri-vector Meter Industrial LT Consumer	Rs 1,000/- for laboratory testing
Three Phase Tri-vector Meter 11 KV and 33kV HT Consumer	Rs 5,000/- at site
Three Phase Tri-Vector Meter 110 KV EHT Consumers	Rs 1,000/-at site
Combined CTPT Unit for 11kV and 33kV Consumer	Rs 2,500/-
110 KV CT / PT Unit	Rs 10,000/-
Single Phase CT	Rs 150/ unit
Three Phase TT Block	Rs 500/unit
Distribution Transformer Testing (HT consumer)	Rs 6,000
Power Transformer Testing (EHT consumer)	Rs 20,000
Service Connection Charg (As per provisions of (Electricity Supply Cod	-
Single Phase 1 φ	Rs 250
<u>Three Phase 3 φ</u>	
up to 5 HP	Rs 500
5 HP to 20 HP	Rs 800
Above 20 HP	Rs 1,200
HT (First 500 KVA)	Rs 10,000
HT (Beyond 500 KVA)	Rs 20,000
HT Additional load	Rs.500/- for every addition of 100 KVA
Extra Length for 1 $\phi$ (beyond 30 meters)	Rs 50 /meter
Extra Length for 1 $\varphi$ for agricultural consumers (beyond 300 meters)	Rs 25 /meter
Extra Length for 3 $\phi$ (beyond 30 meters)	Rs 100 /meter
Extra Length for 3 $\varphi$ for agricultural consumers (beyond 300 meters)	Rs 50 /meter
Underground Service Cable	Actual charges +15%
Shunt Capacitor- 20 kW to 50 kW	Rs 2,000
Shunt Capacitor- above 50kW	Rs 5,000
Testing Consumer's installa (As per provisions of (Electricity Supply Cod	
For first test of the new installation on or off an extension to an existing installation if the installation is found to be defective.	NIL



Description	Miscellaneous Charges				
For Subsequent test of the new installation or of an existing installation if the installation is found to be defective					
Single phase LT	Rs 100/-				
Three phase	Rs 200/-				
MS/BS loads upto70kW	Rs 4,000 + GST				
LS/BS/RT (loads Above 70kW)	Rs 8,000 + GST				
Shunt Capacitor- 20 kW to 50 kW	Rs 1,000 + GST				
Shunt Capacitor- above 50kW	Rs 4,000 + GST				
Changing the Meter or its position in the same premises at the request of the consumer when no additional material is required (As per provisions of (Electricity Supply Code) Regulations 2018)					
Single phase	Rs 100/-				
3-phase without C.Ts	Rs 200/-				
L.T. meter with C.T.s	Rs 500/-				
H.T and E.H.T. metering equipment	Rs 8000 + GST				
Re-sealing charges irrespective of the number of seals invol seals found to have been broken b	-				
Meter cupboard / Meter Cubical / Box	Rs 50/-				
Where cut-out is independently sealed	Rs 50/-				
Meter cover or Meter Terminal cover	Rs 50/-				
Meter cover of Meter Terminal cover (3 phase).	Rs 50/-				
Maximum demand Indicator or C.T.s chamber	Rs 50/-				
Service Charges					
General Supply					
• Single Phase	Rs 10/-				
Three phase below 70kW	Rs 20/-				
• Three phase above 70kW	Rs 50/-				
Industrial/bulk/ agriculture /Street Lightning Supply					
• Upto70kW	Rs 25/-				
• Above 70kW	Rs 50/-				
Replacement of broken	glass				
Replacement of broken glass of meter cupboard (When there is default on Consumer Side)	Rs 50/-				



Description	Miscellaneous Charges
Replacement of broken Glass of single-phase meter if the consumer has broken or tamper and with meter.	Rs 50/-
Replacement of broken Glass of three phase meter if the consumer has broken or tamper and with meter	Rs 50/-
Supply of duplicate copies of ele	ectricity bills
Domestic Consumers	Rs 5 per bill
Non-Domestic consumers	Rs 10 per bill
LT Industrial upto 20kW and AP Consumer	Rs 5 per bill
H.T Industrial and Bulk supply consumer	Rs 10 per bill
Stand by meter	
НТ	Rs. 10,000
EHT	Rs. 20,000
Check Meter	
НТ	Rs. 10,000
EHT	Rs. 20,000
Load enhancement	Actual Cost + 15% Supervision Charges
system strengthening charges or capacity building charges,	Actual Cost + 15% Supervision Charges
Advance for Temporary Connections (Exce	pt of pre-paid meters)
(To be adjusted in bill	s)
• Single phase LT	Rs. 2,000
• Three phase	Rs. 5,000
• HT	Rs. 20,000
• EHT	Rs. 20,000
Note: this shall be adjusted in bills	
Non-Refundable Registration-cum-processing fees	As per Supply code Regulations notified by JERC
Underground service ca	ible
1 Phase through underground service cable	Rs.100/meter
Extra Length 1 phase for Agriculture consumer (beyond 300 meters) through underground service cable	Rs.25/meter
3 Phase through underground service cable	Rs.300/meter
Extra Length for 3Phase for Agriculture consumers (beyond	Rs.100/meter



Description	Miscellaneous Charges
300meters) through underground service cable	
At location where overhead network exist and consumer desires to avail power through Underground service cable	Actual charges+15%

In case of bonafide agricultural pumping loads, the department shall provide overhead service lines at a free of cost upto 300 meters from the nearest distribution point i.e. existing rural transformer sub-station or from a service line already laid for supply to any other consumer, provided the latter has sufficient current carrying capacity. Any length in excess of the specified length shall be payable at a fixed cost of INR 25 / metre for single phase and INR.50/ meter for Three phase as approved under Schedule of General and Miscellaneous Charges.



#### 7 TARIFF SCHEDULE FOR FY 2023-24

This Chapter highlights the tariff schedule.

#### 7.1 Tariff Schedule - LT Consumers

**Low Tension Category** - Applicable to Power Supply of Voltages at 230V and 440V Voltages when the Sanctioned Load is below 100 KVA/ 90 KW / 120 HP and power is supplied at single/ three phase.

LT Domestic/LT-D:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to private residential houses, government residential quarters, Government schools and related facilities, charitable institutions, religious institutions etc. for consumption of energy using normal domestic appliances. Professionals such as Doctors, Engineers, Lawyers, CAs, Journalists and Consultants practicing from their residence irrespective of location provided that such use shall not exceed 25% of the area of the premises or as specified in the rules/regulations of their respective State or Union Territory.	a. For the premises or flats which are closed or locked for a continuous period of more than three months and having sanctioned / connected load more than 10 kW, the monthly minimum charges would be Rs 1000/-	Following applicability is proposed to be included: "This schedule also applies to Street-lights operating within the premises of private establishments/villas"

> Tariff for LT Domestic/ LT-D:

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22) Fixed Charges (Rs. / kWh)		Proposed Tar	iff for FY 2023-24
Slab	charge			Fixed Charges	Energy Charges (Rs. / kWh)
0-100 units			1.6		1.75
101-200 units			2.35		2.60
201 to 300 units	Rs/kW/ Month	20	2.95	22	3.30
301 to 400 units			3.90		4.40
Above 400 units			4.50		5.10



## Low Income Group/ LT-LIG:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to consumers of Low-Income Group who have a sanctioned load of up to 0.25 kW and who consume up to 50 units per month only.	The applicability of the Low-Income Group category will be assessed at the end of each month and in case the consumption exceeds 50 units per month, the entire consumption would be billed at the rate of LTD-/Domestic for that particular month.	No change Proposed

# > Tariff for LT-LIG/Low Income Group:

Consumption	Basis of	Existing Tariff (Approved in T.O. dated 31.03.22)			
Slab	Fixed charge	Fixed Charges	Energy Charges (Rs. / kWh)	Fixed Charges	Energy Charges (Rs. / kWh)
Consumption up to 50 Units p.m.	Rs./kW/ Month	20	-	22	-

## Low Tension Commercial/ LT-C:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This tariff is applicable to any activity not specifically covered in any other consumer	Cold Storages which are solely attached to	For the following applicability clause,
categories, or although covered in another activity, the use is made for a commercial category. It would include electricity used in	Agriculture and its allied activities shall be charged tariff of	"Marriage Halls (including halls attached to religious places), Hotels /Restaurants (without boarding facilities),
all non- residential, non-industrial premises and/or commercial premises for commercial	Agriculture Allied activities. All other cold	Coffee Shops, private hospitals, private messes, Internet /
consumption meant for operating various appliances. It would include the following categories but not limited to:	storages which are partly or not attached with Agriculture and	Cyber Cafes, Mobile Towers, Micro-wave Towers, Satellite Antennas used for
<ul> <li>Houses with rent back facilities</li> <li>Government hospitals</li> <li>Professionals not covered in domestic</li> </ul>	Allied activities shall be charged commercial tariff.	telecommunication activity, Telephone Booths, Fax / Xerox Shops, X-ray installations, bars and cold drink houses,
• Professionals not covered in domestic category.		Tailoring Shops, Computer Training Schools, Typing



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>Commercial Complexes and Business premises, including Shopping malls/show rooms, offices / shops;</li> </ul>		Institutes, Photo Laboratories, Photo Studios, Laundries, Beauty Parlours and Saloons,
<ul> <li>Combined lighting and power services for Entertainment including film studios, cinemas and theatres, including multiplexes, Race-course, Meeting/Town Halls, Clubs, all types of Guest houses;</li> <li>Offices including Government Offices,</li> </ul>		dry cleaners etc" "For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security) Lighting, etc. in Commercial
<ul> <li>Commercial Establishments;</li> <li>Marriage Halls (including halls attached to religious places), Hotels /Restaurants (without boarding facilities), Ice-cream parlours, Bakeries (sales premises only), Coffee Shops, private hospitals, private</li> </ul>		<i>Complexes;"</i> "Research and Development units situated outside Industrial premises;"
<ul> <li>messes, Internet / Cyber Cafes, Mobile Towers, Micro-wave Towers, Satellite Antennas used for telecommunication activity, Telephone Booths, Fax / Xerox Shops, X-ray installations, bars and cold drink houses, Tailoring Shops, Computer Training Schools, Typing Institutes, Photo Laboratories, Photo Studios, Laundries, Beauty Parlours and Saloons, dry cleaners etc</li> <li>Automobile and any other type of repair centers, Retail Gas Filling stations, Petrol Pumps and Service Stations including Garages, Tyre Vulcanizing units, Battery Charging Units, Tyre vulcanizing centres etc;</li> <li>Banks, Telephone Exchanges, TV Station, Microwave Stations, All India Radio (AIR)</li> </ul>		EDG proposed to amend the aforementioned clause as given below: <i>"Marriage Halls (including halls attached to religious places), Hotels /Restaurants (without boarding facilities), Ice-cream parlours, Bakeries (sales premises only), Coffee Shops, private hospitals, private messes, Internet / Cyber Cafes, Mobile Towers, Micro-wave Towers, Satellite Antennas used for telecommunication activity, Telephone Booths, Fax / Xerox Shops, X-ray installations, bars and cold drink houses,</i>
<ul> <li>Stations, ATM Centres etc;</li> <li>For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security) Lighting, etc. in Commercial Complexes;</li> <li>Sports Clubs, Health Clubs, Gymnasium, Swimming Pools;</li> <li>Research and Development units/ laboratories situated outside Industrial/ agricultural premises;</li> </ul>		Tailoring Shops, Computer Training Schools, Typing Institutes, Photo Laboratories, Photo Studios, Laundries, Beauty Parlours and Saloons, dry cleaners etc" "For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security)



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>Airports, Railways, Railway Stations, Bus stands of KTC etc;</li> </ul>		Lighting, etc. <del>in Commercial</del> <del>Complexes</del> ;"
<ul> <li>Educational institutions excluding Government Schools and related facilities</li> </ul>		"Research and Development units/ laboratories situated outside Industrial/ agricultural premises;"
		For the following Point of Supply/Notes: Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff. EDG proposed to amend the
		aforementioned clause as given below: Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.
		In addition to the existing applicability clause, the following shall be added: <i>"Warehouses/cold storages"</i>



## > Tariff for LT Commercial/ LT-C:

		Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tariff for	FY 2023-24
Consumption Slab	Basis of Fixed charge	Fixed Charges	Energy Charges (Rs. / kWh)	Fixed Charges	Energy Charges (Rs. / kWh)
1-100 Units		For consumers	3.55	For consumers	4.00
101-200 units	0-20 kW-	with Load upto 20 kW INR	4.35	with Load upto 20 kW INR	4.85
201-400 Units	Rs./kW/Month	40/kW/Month	4.85	45/kW/Month	5.50
Above 400 units	Above 20kW and upto 90 kW Rs./KW/month	For consumers with Load more than 20 kW and upto 90 kW INR 60/kW/Month	5.25	For consumers with Load more than 20 kW and upto 90 kW INR 70/kW/Month	6.00

## Low Tension Industrial/ LT-I

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>This tariff shall apply to industrial units engaged in industrial activities, manufacturing process etc. It would include the following categories but not limited to:</li> <li>Flour Mills, wet grinding, Dal Mills, Rice Mills, Poha Mills, Masala Mills, Saw-Mills, Power looms including other allied activities like Warping, Doubling, Twisting, etc.</li> <li>Ice Factories, Ice Cream Manufacturing units/ Plants, Dairy Testing Process, Milk Dairies, Milk Processing/ Chilling Plants (Dairy) etc.;</li> <li>Engineering workshops, Engineering Goods Manufacturing units, Printing Presses, Transformer repairing Workshops, Tyre retreading units, Motive Power Loads etc.;</li> </ul>	The above-mentioned tariff is based on the supply being given through a single delivery and metering point and at a single voltage.	For the following applicability clause, "Ice Factories, Ice Cream Manufacturing units/ Plants, Dairy Testing Process, Milk Dairies, Milk Processing/ Chilling Plants (Dairy) etc.;" EDG proposed to amend the aforementioned clause as given below: "Ice Factories, Ice Cream Manufacturing units/ Plants,



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>Mining, Quarry and Stone Crushing units etc.;</li> <li>Garment Manufacturing units,</li> <li>LPG/ CNG Bottling plants etc.;</li> <li>Sewage Water Treatment Plants/ Common Effluent Treatment Plants owned, operated and managed by Industrial Associations and situated within industrial area.</li> <li>Pumping of water for public water supply, Sewage Treatment Plants, activities related with public water Supply Schemes and Sewage Pumping Stations.</li> <li>Use of electricity / power supply for activities/ facilities exclusively meant for employees of the industry.</li> <li>IT Industry, IT parks etc.</li> </ul>		Bakeries Manufacturing units/section/area, Dairy Testing Process, Milk Dairies, Milk Processing/ Chilling Plants (Dairy) etc.;" In addition to the existing applicability clause, the following shall be added: "Food processing industry including primary food processing activities like packing and storage in transit within the premises only. However, LT Commercial tariff shall be applicable to warehouses/cold storages outside the industrial premises."

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tariff for FY 2023-24	
Slab	charge	Fixed Charges	Energy Charges (Rs. / kWh)	Fixed Charges	Energy Charges (Rs. / kWh)
0-500 Units		40	3.40	41	3.50
Above 500 units	Rs/HP/Month	40	3.95	41	4.05

# > Tariff for Low Tension Industrial/ LT-I:



#### Low Tension-Mixed/LT-P (Hotel Industries)

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to Hotels/restaurants with lodging and boarding facilities.	Hotel Industry consumers intending to avail the facility of this tariff should produce a certificate from the Tourism Department stating that the intending applicant is registered under Goa Registration of Tourist Trade Act, 1982 and in the Hotel business on a regular basis. On receipt of the certificate, such tariff shall be made effective from the date of original validity of the certificate. In case of failure to produce the certificate, the same shall be considered under Commercial category.	No change Proposed

## > Tariff for LTP Mixed (Hotel Industries):

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tariff for FY 2023-24	
Slab			Energy Charges (Rs. / kWh)	Fixed Charges	Energy Charges (Rs. / kWh)
Total Consumption	Rs/kW/Month	50	5.25	55	5.60

## LT 4: LT Agriculture / LTAG / Agriculture and other Allied Activities

## a. Low Tension-Agriculture/ LT-AGP (Pump Sets/ Irrigation)

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to establishments for Irrigation pumping, De- watering and Lift Irrigation for cultivation of food crops such as cereals, pulses, vegetables and fruits etc. and Cane crusher and/or fodder	This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category.	Existing applicability clause is proposed to be amended as follows: <i>"This schedule shall</i> apply to establishments for Irrigation pumping,



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
cutter for self-use for Agricultural purposes.	Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged Commercial Tariff.	De-watering and Lift Irrigation for cultivation of food crops such as cereals, pulses, vegetables and fruits etc., Cane crusher and/or fodder cutter and peeling of areca nut/ coconut for self-use for Agricultural purposes."
		For the following Point of Supply/Notes: Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.
		EDG proposed to amend the aforementioned clause as given below: Cold Storages which are solely attached to



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
		Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages <del>which are partly or not</del> <del>attached with</del> Agriculture and Allied activities shall be charged commercial tariff.

## Tariff for LT-AGP (Pump Sets/ Irrigation):

Consumption	mptionBasis of FixedExisting Tariff (Approved in T.O. dated 31.03.22)		Proposed Tariff for FY 2023-24		
Slab	charge	Fixed Charges	Energy Charges (Rs. / kWh)	Fixed Charges Energy Charge (Rs. / kWh)	
Total Consumption	Rs/HP/Month	18	1.50	20	1.60

## b. Low Tension-Agriculture/ LT-AGA (Allied Activities)

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>This schedule shall apply to establishments for other allied activities related to Agriculture and shall include but not limited to:</li> <li>Poultry farms, Livestock farms, Combination of livestock farms with dairy, Piggery etc</li> <li>Horticulture, Green Houses, Plantations, all types of nurseries etc.</li> <li>Fish farms including ornamental fish farms, prawn farms, other aqua farms etc</li> </ul>	This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the	EDG proposed to add the clause in the Point of Supply/Notes as given below: "In case of use of electricity /power supply for activities/ facilities exclusively meant for housing of



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>Tissue culture, Mushroom activities, Aquaculture, Floriculture, Fisheries, Sericulture, Floricultural nurseries, hatcheries etc</li> <li>Any other agricultural activity not falling under LT-Agriculture (A) shall be covered under this category</li> </ul>	same shall be considered under Commercial category. Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged Commercial Tariff.	employees, commercial activities in the premises, primary food processing activities like packaging, storage in transit, testing facilities/ laboratories associated with the activity concerned within the premises, 10% of total consumption and fixed charges (Sanctioned/ Connected Load whichever is higher) shall be charged as LTI tariff. In case the common loads pertaining to the activities / facilities mentioned exceeds 10% of the common loads the consumer shall seek a separate connection for the same." For the following Point of Supply/Notes: Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
		activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.
		EDG proposed to amend the aforementioned clause as given below:
		Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of
		Agriculture Allied activities. All other cold storages <del>which</del> <del>are partly or not</del> <del>attached with</del> Agriculture and
		Allied activities shall be charged commercial tariff.



> Tariff for LT-AGA (Allied Activities):

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tariff for FY 2023-24	
Slab	charge	Fixed Charges	Energy Charges (Rs. / kWh)	Fixed Charges	Energy Charges (Rs. / kWh)
Total Consumption	Rs/HP/Month	25	1.75	27	2.00

## Public Lighting:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>This schedule shall apply to public lighting systems. It would include the following categories but not limited to:</li> <li>Market Places, Roads, Pathways and Parking Lighting belonging to local authorities such as Municipality/Panchayats/Government;</li> <li>Lighting in Public Gardens;</li> <li>Traffic Signals and Traffic Islands;</li> <li>State Transport Bus Shelters;</li> <li>Public Sanitary Conveniences; and</li> <li>Public Vater Fountains and such other Public Places open for general public free of charge.</li> <li>Street lighting in the colony of a factory which is situated separately from the main factory.</li> <li>This shall also be applicable to public lighting of Government/Semi Government Establishments but shall not be applicable in case of private establishments.</li> </ul>		Following applicability clause "This shall also be applicable to public lighting of Government/ Semi Government Establishments but shall not be applicable in case of private establishments. In addition to the existing applicability clause is proposed to be amended as follows: "This shall also be applicable to public lighting of Government/ Semi Government Establishments but shall not be applicable in case of private



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
		establishments/ <u>villas."</u>

## > Tariff for Public Lighting:

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		n T.O. Proposed Tariff for FY	
Slab charge		Fixed Charges	Energy Charges (Rs. / kWh)	Fixed Charges	Energy Charges (Rs. / kWh)
Total Consumption	Rs/kW/Month	70	5.65	72	5.80

# LT (7): Hoarding & Sign Boards

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to lighting advertisements, hoardings and displays at departmental stores, malls, multiplexes, theatres, clubs, hotels, bus shelters, Railway Stations etc. and shall be separately metered and charged at the tariff applicable for "Hoardings / Sign Board" category. However, use of electricity for displays for the purpose of indicating / displaying the name and other details of the shop, on commercial premises itself, shall be covered under the prevailing tariff for such shops or commercial premises.		No change Proposed



> Tariff for Hoarding & Sign Boards:

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)FixedEnergy Charges (Rs. / kWh)		Proposed Tariff	f for FY 2023-24
Consumption Slab	charge			Fixed Charges	Energy Charges (Rs. / kWh)
Total Consumption	Rs/kVA/Month	70	10	77	11

## LT (8): Low Tension Temporary Supply/ LTTS

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to usage of electricity for all temporary purposes.	<ul> <li>The Temporary connection shall be released through a proper meter.</li> <li>The Temporary tariff is applicable for temporary period of supply for a period of maximum one (1) year at a time, which may be further extended, as per the provision of Supply Code Regulations notified by JERC.</li> </ul>	No change Proposed

## > Tariff for LT Temporary Supply:

Consumption	Existing Tariff (Approved in T.O. dated 31.03.22) & Proposed Tariff for FY 2023-2				
Slab	Fixed Charges	Energy Charges			
	The Tariff shall be fixed /Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both.				
LT Temporary					
	For multi activity pursuit, applicable tar reference to that of commercial categor	iff for temporary connection shall be with ry for permanent supply.			

## 7.2 Tariff Schedule – HT Consumers

**High Tension/ Extra High-Tension Category** - Applicable to Power Supply of Voltages at 11KV/ 33KV/ 110KV i.e. High/Extra High Voltages when the Contracted Demand is above 100 KVA/ 90 KW / 120 HP and power is supplied at three phase.

High Tension-Domestic/HT-D



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to individual residential consumers of Bungalows, Villas, Cottages, etc. using normal domestic appliances and whose contract demand falls within the threshold limit of HT category.		Following applicability is proposed to be included: "This schedule also applies to Street-lights operating within the premises of private establishments/ villas"

# > Tariff for High Tension/Domestic:

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tarif	f for FY 2023-24
Slab	charge	Fixed Charges	Energy Charges (Rs. / kVAh)	Fixed Charges	Energy Charges (Rs. / kVAh)
Total Consumption	Rs/kVA/Month	110	4.60	125	5.30

## High Tension Industrial/ HT-I

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>This schedule shall apply to consumers taking electricity supply for Industrial purpose. It shall also include the following categories:</li> <li>Bulk Supply of power at 11 KV, 33 kV /110 KV and above for industries, factories and other industrial purposes.</li> <li>Bulk supply of power at 11 KV and above for educational institutions owned or aided by Government, non-industrial establishments,</li> <li>Industrial units engaged in Ice Manufacturing Units;</li> <li>Hotels with lodging and boarding facilities etc</li> </ul>		EDG proposed to add following clause as given below: "Hotel Industry consumers intending to avail the facility of this tariff should produce a certificate from the Tourism Department stating that the intending applicant is registered under



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>Use of electricity / power supply by an establishment such as IT Industries, IT Parks, IT Units</li> <li>Pumping of water, public water supply, public water treatment plant, activities related with Supply Schemes and Sewage Treatment Plants, Sewage Pumping Stations etc</li> </ul>		Goa Registration of Tourist Trade Act, 1982 and in the Hotel business on a regular basis. On receipt of the certificate, such tariff shall be made effective from the date of original validity of the certificate. In case of failure to produce the certificate, the same shall be considered under Commercial category. In addition to the existing applicability clause, the following shall be added: <i>"Food processing industry including primary food processing activities like packing and storage in transit within the premises only. However, HT Commercial tariff shall be applicable to warehouses/cold storages outside the industrial premises."</i>



> Tariff for HT-I:

Consumption	Basis of Fixed	-	ff (Approved in T.O. ed 31.03.22)	Proposed T 202	Tariff for FY 3-24
Slab	charge	Fixed Charges	Energy Charges (Rs. / kVAh)	Fixed Charges	Energy Charges (Rs. / kVAh)
11/ 33 kV	Rs/kVA/Month	250	4.80	255	4.90
110 kV	Rs/kVA/Month	250	4.70	255	4.80

## High Tension Ferro Metallurgical /Steel Rolling/Steel Melting/Power Intensive:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to supply of power		No change
having a Contract Demand from 100 KVA		Proposed
up to 1000 KVA at 11 KV and above 1000		
KVA at 33 KV for Steel rolling industry and		
Metal Alloy, Steel Melting, Ferro Alloy, and		
Ferro metallurgical industries where		
melting is involved using electric power.		

# > Tariff Ferro Metallurgical /Steel Rolling/Steel Melting/Power Intensive:

Consumption	Basis of Fixed	-	ff (Approved in T.O. ed 31.03.22)		ff for FY 2023- 4
Slab	charge	Fixed Charges	Energy Charges (Rs. / kVAh )	Fixed Charges	Energy Charges (Rs. / kVAh)
Total Consumption	Rs/kVA/Month	250	4.80	255	4.90



High Tension Commercial/ HT-C:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>This tariff is applicable to any activity not specifically covered in any other consumer categories, or although covered in another activity, the use is made for a commercial category. It would include electricity used in all non- residential, non-industrial premises and/or commercial premises for commercial consumption meant for operating various appliances. It would include the following categories but not limited to: <ul> <li>Houses with rent back facilities</li> <li>Government hospitals</li> <li>Professionals not covered in domestic category.</li> <li>Commercial Complexes and Business premises, including Shopping malls/show rooms, offices / shops;</li> <li>Combined lighting and power services for Entertainment including film studios, cinemas and theatres, including multiplexes, Race-Course, Meeting/Town Halls, Clubs, all types of Guest houses;</li> <li>Offices including Government Offices, Commercial Establishments;</li> <li>Marriage Halls (including halls attached to religious places), Hotels /Restaurants (without boarding facilities), Ice-cream parlours, Bakeries, Coffee Shops, private hospitals, private messes, Internet / Cyber Cafes, Mobile Towers, Microwave Towers, Satellite Antennas used for telecommunication activity, Telephone</li> </ul> </li> </ul>	Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.	For the following applicability clause, "For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security) Lighting, etc. in Commercial Complexes;" EDG proposed to amend the aforementioned clause as given below: "For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security) Lighting, etc.—in Commercial Complexes;" For the following existing applicability clause, "Research and Development units situated outside Industrial
Booths, Fax / Xerox Shops, X-ray installations, bars and cold drink houses, Tailoring Shops, Computer Training Schools, Typing Institutes, Photo Laboratories, Photo Studios, Laundries,		premises;" EDG proposed to amend the aforementioned



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>Beauty Parlours and Saloons, dry cleaners etc</li> <li>Automobile and any other type of repair centers, Retail Gas Filling stations, Petrol Pumps and Service Stations including Garages, Tyre Vulcanizing units, Battery Charging Units, Tyre vulcanizing centres etc;</li> <li>Banks, Telephone Exchanges, TV Station, Micro-Wave Stations, All India Radio (AIR) Stations, ATM Centres etc;</li> <li>For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security) Lighting, etc. in Commercial Complexes;</li> <li>Sports Clubs, Health Clubs, Gymnasium, Swimming Pools;</li> <li>Research and Development units situated outside Industrial premises;</li> <li>Airports, Railways, Railway Stations, Bus stands of KTC etc;</li> <li>Educational institutions excluding Government Schools and related facilities</li> </ul>		clause as given below: <i>"Research and Development units/ laboratories</i> <i>situated outside</i> <i>Industrial/</i> <i>agricultural</i> <i>premises;"</i> In addition to the existing applicability clause, the following shall be added: <i>"Warehouses/cold</i> <i>storages"</i>

## > Tariff for HT Commercial:

Consumption	Commution Desig of Final		Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tariff for FY 2023-24	
Slab	Basis of Fixed charge	Fixed Charges	Energy Charges (Rs. / kVAh )	Fixed Charges	Energy Charges (Rs. / kVAh)	
Total Consumption	Rs/kVA/Month	250	5.25	285	6.00	



### High Tension MES/Defence Establishments:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to supply of power		No change
for defence installation establishments,		Proposed
having mixed load with predominantly		
lighting or non-industrial load of more than		
50% of connected load.		

### > Tariff for MES/Defense Establishments:

Consumption	Basis of Fixed	_	ariff (Approved in ated 31.03.22)	Proposed T	ariff for FY 2023- 24
Slab	charge	Fixed Charges	Energy Charges (Rs. / kVAh)	Fixed Charges	Energy Charges (Rs. / kVAh)
Total Consumption	Rs/kVA/Month	200	4.90	200	4.90

High Tension Agriculture / Agriculture and other Allied Activities:

## a. HT-Agriculture Pump Sets (A)

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to establishments for Irrigation pumping, De- watering and Lift Irrigation for cultivation of food crops such as cereals, pulses, vegetables and fruits etc and Cane crusher and/or fodder cutter for self-use for Agricultural purposes.	This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category. Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged Commercial Tariff.	Existing applicability clause is proposed to be amended as follows: This schedule shall apply to establishments for Irrigation pumping, De-watering and Lift Irrigation for cultivation of food crops such as cereals, pulses, vegetables and



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
		fruits etc., Cane crusher and/or fodder cutter <u>and</u> <u>peeling of areca</u> <u>nut/ coconut for</u> <u>self-use</u> for Agricultural purposes.
		For the following Point of Supply/Notes: Cold Storages
		which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.
		EDG proposed to amend the aforementioned clause as given below:
		Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
		are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.

## > Tariff for Agriculture Pump Sets:

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tarif	f for FY 2023-24
Slab	charge	Fixed Charges	Energy Charges (Rs. / kVAh)	Fixed Charges	Energy Charges (Rs. / kVAh)
Total Consumption	Rs/kVA/Month	40	1.60	42	1.70

## b. HT-Agriculture Allied Activities (B)

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>This schedule shall apply to establishments for other allied activities related to Agriculture and shall include but not limited to: <ul> <li>Poultry farms, Livestock farms, Combination of livestock farms with dairy, Piggery etc</li> <li>Horticulture, Green Houses, Plantations, all types of nurseries etc.</li> <li>Fish farms including ornamental fish farms, prawn farms, other aqua farms etc</li> <li>Tissue culture, Mushroom activities, Aquaculture, Floriculture, Fisheries, Sericulture, Floricultural nurseries, hatcheries etc</li> </ul> </li> </ul>	This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category.	EDG proposed to add the clause to the existing Point of Supply/Notes as given below: "In case of use of electricity /power supply for activities/ facilities exclusively meant for housing of employees, commercial activities in the premises, primary food processing



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
<ul> <li>Any other agricultural activity not falling under HT-Agriculture (A) shall be covered under this category</li> </ul>	Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged Commercial Tariff.	activities like packaging, storage in transit, testing facilities/ laboratories associated with the activity concerned within the premises, 10% of total consumption and demand charges (Sanctioned/ Connected Load whichever is higher) shall be charged as HTI tariff. In case the common loads pertaining to the activities / facilities mentioned exceeds 10% of the consumer shall seek a separate connection for the same."
		For the following Point of Supply/Notes: Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
		attached with Agriculture and Allied activities shall be charged commercial tariff.
		EDG proposed to amend the aforementioned clause as given below:
		Cold Storages which are solely attached to Agriculture and its allied activities shall
		be charged tariff of Agriculture Allied activities. All other cold storages <del>which</del> <del>are partly or not</del>
		attached with Agriculture and Allied activities shall be charged
		commercial tariff.

## > Tariff for Agriculture Allied Activities:

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed 1 202	Tariff for FY 3-24
Slab	charge	Fixed Charges	Energy Charges (Rs. / kVAh )	Fixed Charges	Energy Charges (Rs. / kVAh)
Total Consumption	Rs/kVA/Month	70	1.95	77	2.15



### High Tension Temporary Supply/ HT-HTTS

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to usage of electricity for all temporary purposes.	<ul> <li>The temporary connection shall be released through a proper meter</li> <li>The Temporary Tariff is applicable for a temporary period of supply for a period of maximum one (1) year at a time, which may be further extended, as per the provisions of Supply Code Regulations notified by JERC.</li> </ul>	No change Proposed

### > Tariff for HT Temporary Supply:

Consumption Slab	Existing Tariff (Approved in T.O. dated 31.03.22) & Proposed Tariff for FY 2023- 24					
Siab	Fixed Charges Energy Charges					
	The Tariff shall be fixed /Demand charges (if any) plus energy charges (for relevant					
HT Temporary	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 commercial category for permanent supply.					

## High Tension Single Point Supply/ HT SPS

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This schedule shall apply to a group of consumers who desire to take a HT connection at single point for consumption of energy within a Residential Complex – Group Housing Societies, Residential Housing	In case of a dispute on whether the complex can be classified as an industrial complex, a certificate from Industries Department, Government of Goa will be required. The following shall be the different combinations for SPS in a defined area: All LT consumer mix area All HT consumer mix area HT+LT consumer mix area	No change Proposed



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
Colonies, Cooperative Group Housing Societies, Township Areas; Commercial Complexes, including Malls; Industrial Complexes, including IT Parks, Bio-Parks or other	The General Conditions, Miscellaneous and General Charges would also be applicable for all SPS categories. Based on technical and administrative feasibility, the ED-Goa may consider providing SPS power supply at HV/EHV level to a complex at a mutually agreed injection point. The SPS arrangement would be applicable for the application received from a Residential complex /	
entities classified as industries by the Government of Goa.	Association of Persons (AOP) / Developer of the complex or any other such similar person. The SPS arrangement would be considered by ED-	
	Goa only if the minimum sanctioned cumulative contracted demand of the complex (group of consumers) is 1.15 MVA/ 1 MW.	
	The complete cost of erection and O&M for the sub-transmission and distribution infrastructure within such complex would need to be borne by the said SPS applicant.	
	The SPS applicant would be required to develop and maintain an efficient, coordinated and quality sub-transmission and distribution system in its area of electricity supply. Further, the applicant would be responsible to comply with Standards of Performance and Supply Code Regulation as laid down under JERC Regulations and guidelines of Goa Electricity Department, if any. The network within the complex will need to be certified by the Chief Electrical Inspector.	
	For Residential Complexes, SPS application shall be entertained for groups of LT consumers only. The loads of common amenities for such group may include pumps for pumping water supply, lifts and lighting of common area. However, the consumption of energy for common services shall	



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
	be separately metered with meters installed by the consumer and tested and sealed by licensee. The consumption of such energy over and above 10% of the total consumption of energy shall be billed at LT Commercial Tariff. The user shall inform the details of every non-domestic activity within the residential complex, such as commercial complex, industrial activity, and recreation club, along with the connected load to the licensee at the time of seeking the connection or at the time of enhancement in contract demand, and shall seek a separate connection for the same in case the common load is more than 10%.	
	Individual Domestic HT consumers in a residential complex that opt for SPS shall need to apply separately under HT Domestic category.	
	The SPS applicant shall not charge tariff to the downstream consumers higher than stipulated.	
	The applicant shall be obliged to pay the total tariff (total billed amount) due to ED-Goa, as measured at HT end of SPS. However, to cover energy transformation losses and other O&M expenses, such applicant would be eligible to get rebates from ED-Goa on full bill payment, within the due time:	
	5% on the overall billed amount in all cases of LT and HT consumers	
	Any other loss would be to the account of the applicant.	
	For CC and IC applicant, any LT / HT Consumer in the area should have minimum 80% pre-dominant load of their appropriate category i.e. mix load is allowed only upto 20%. For e.g. If a HT/LT Industry Consumer has Factory, Residential Colony for its workers and also some Commercial facilities for	



Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
	his staff and the total of Residential and Commercial load is say around 30%, then separate Individual SPD connection may be taken for each such group as per activity.	
	The implementation of SPS arrangement should be in accordance with the Electricity Act, 2003 and APTEL judgement dated 11th July 2011 in appeal no. 155 and 156 of 2010 in this regard.	

# > Tariff for HT Single Point Supply:

Consumption	Basis of Fixed	Existing Tariff (Approved in T.O. dated 31.03.22)		Proposed Tariff for FY 2023-2	
Slab	charge	Fixed Charges	Energy Charges (Rs. / kVAh)	Fixed Charges	Energy Charges (Rs. / kVAh)
Residential Complex	Rs/kVA/ Month or part thereof	110	3.55	120	3.90
Commercial Complex	Rs/kVA/ Month or part thereof	220	4.80	240	5.30
Industrial Complex	Rs/kVA/ Month or part thereof	220	4.40	240	4.90

Electric Vehicle Charging Station:

Existing Applicability Clause	Point of Supply/Notes	Proposed Applicability Clause
This tariff schedule shall apply to consumers that have set up Public Charging Stations (PCS) in accordance with the		No change Proposed
technical norms/ standards/specifications laid down by the Ministry of Power, Gol		
and Central Electricity Authority (CEA) from time to time.		
The tariff for domestic consumption shall be applicable for domestic charging (LT/HT)		



> Tariff EV Charging Station:

Consumption	Basis of	Existing Tariff (Approved in T.O. dated 31.03.22) Fixed Energy Charges Charges (Rs. / kVAh)		Proposed Tar	iff for FY 2023-24
Slab	Fixed charge			Fixed Charges	Energy Charges (Rs. / kVAh)
Total Consumption	NA	-	3.50*	-	3.70*

\*This tariff is applicable only for supply at HT. In case of LT supply, tariff will be INR 0.20/kVAh higher than the above tariff.



#### 8 REVENUE FROM SALE OF POWER AT PROPOSED TARIFF

For the FY 2023-24, the Government of Goa has decided to hike the tariff for consumers as is being levied on them currently.

The Revenue from sale of power at proposed (hike) tariff rates by ED-Goa for FY 2023-24 is outlined below. The detailed proposed tariff structure has been discussed in the Tariff philosophy chapter. The detailed computation has been provided in Format F 23 of the MYT Tariff Formats.

		Rever		2023-24 fron osed by EDG	(In INR CI         re)         Total         465.46         465.18         102.91         95.83         70.47         53.46         142.50         0.00         0.27         456.84         308.21         40.32         27.57         39.91         200.41			
SI.	Category	Fu	Full year revenue (Rs. Crore)					
No.	Category	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)		
1	Domestic	1386.73	49.74	415.72	465.46	3.36		
(i)	LT-D Domestic	1385.41	49.68	415.50	465.18	3.36		
	0-100 units	501.44	15.16	87.75	102.91	2.05		
	101-200 units	326.50	10.94	84.89	95.83	2.94		
	201-300 units	187.54	8.58	61.89	70.47	3.76		
	301-400 units	109.83	5.14	48.33	53.46	4.87		
	Above 400 units	260.09	9.86	132.65	142.50	5.48		
(ii)	Low Income Group	0.93	0.00	-	0.00	0.02		
(iii)	HT-D Domestic	0.39	0.06	0.21	0.27	7.07		
2	Commercial	682.75	71.69	385.15	456.84	6.69		
(i)	LT-C Commercial	511.86	26.86	281.36	308.21	6.02		
	0-100 units	82.09	7.48	32.84	40.32	4.91		
	101-200 units	52.03	2.34	25.23	27.57	5.30		
	201-400 units	67.12	2.99	36.92	39.91	5.95		
	Above 400 units	310.61	14.04	186.37	200.41	6.45		
(ii)	HT-C Commercial	170.89	44.83	103.79	148.63	8.70		
3	Industrial	2349.52	231.05	1160.56	1391.61	5.92		
(i)	LT-I Industrial	93.79	9.63	37.02	46.64	4.97		
	0-500 units	17.63	4.44	6.17	10.61	6.02		

#### Table 8-1: Revenue from Sale of Power at Proposed Tariff from FY 2023-24 (Rs. Cr.)



		Revenue for FY 2023-24 from Proposed Tariff Proposed by EDG (In INR Cr					
SI.	Category	Fu	ll year reve	nue (Rs. Cro	re)		
No.	category	Sales in MU	Revenue from Fixed Charges	Revenue from Energy Charges	Total	Average Billing Rate (Rs/kWh)	
	Above 500 units	76.17	5.18	30.85	36.03	4.73	
(ii)	Low Tension-Mixed/LT-P (Hotel Industries)	4.16	0.17	2.33	2.50	6.01	
(iii)	High Tension-I/HT-I	1738.62	185.61	869.06	<b>1054.67</b>	6.07	
(111)	Connected at 11/33 kV	1485.28	159.50	747.22	906.72	6.10	
	Connected at 110 kV	253.34	26.10	121.84	147.94	5.84	
(iv)	High Tension-Ferro/SM/PI/SR	512.94	35.65	252.15	287.80	5.61	
4	Agriculture	41.95	2.60	7.90	10.50	2.50	
(i)	Low Tension-AG/LT-AGP (Pump Sets/Irrigation)	19.05	1.53	3.05	4.57	2.40	
(ii)	Low Tension-AG/LT-AGA (Allied Activities)	1.48	0.10	0.30	0.40	2.71	
(iii)	High Tension-AG/HT-AGP (Pump Sets/Irrigation)	6.51	0.68	1.37	2.04	3.14	
(iv)	High Tension-AG/HT-AG (Allied Activities)	14.90	0.29	3.19	3.48	2.34	
5	Military Engineering Services/ defense Establishments	33.43	2.21	17.20	19.41	5.81	
6	Public Lighting	50.09	0.87	29.05	29.92	5.97	
7	Hoardings/Signboards	0.34	0.05	0.37	0.43	12.55	
8	Temporary	10.42	0.52	6.61	7.13	6.84	
(i)	LT	4.09	0.52	0.28	0.80	1.95	
	LT Domestic	1.06	0.08	0.28	0.36	3.40	
	LT Commercial	3.03	0.44	0.00	0.44	1.44	
(ii)	НТ	6.33	0.00	6.33	6.33	10.00	
9	Single Point Supply	6.68	0.72	3.54	4.26	6.38	
(i)	Residential Complexes	0.00	0.00	0.00	0.00		
(ii)	Commercial Complexes	6.68	0.72	3.54	4.26	6.38	
(iii)	Industrial Complexes	0.00	0.00	0.00	0.00		
	TOTAL	4561.91	359.45	2026.11	2385.56	5.23	



EDG prays and requests the Hon'ble Commission to approve the hike in the consumer tariff proposed for FY 2023-24.

Based on the Aggregate Revenue Requirement and revenue calculation based on the existing tariff, the revenue gap/ (surplus) for FY 2023-24 has been computed. The revenue gap for FY 2023-24 is as shown in the table below:

Particulars	FY 2023-24
Net Revenue Requirement	2,734.25
Revenue from Sale of Power at existing Tariff	2250.60
Revenue from Sale of Power at proposed Tariff	2385.56
Revenue Gap during the Year (at proposed Tariff)	-348.69

#### Table 8-2: Revenue Gap for FY 2023-24 (Rs. Cr.)

In view of above, the Hon'ble Commission is requested to kindly approve the revenue gap for FY 2023-24 at proposed tariff. Further, EDG submits that the revenue gap for FY 2023-24 will be partially recovered by Tariff hike and partially recovered through Government of Goa by providing budgetary support for the same.



#### 9 PROPOSAL TO MEET ARR AND REVENUE GAP OF FY 2023-24

#### 9.1 Cumulative Revenue Gap till FY 2023-24

It is submitted that the revenue gap for past years i.e. from FY 2017-18 to FY 2019-20 is being claimed in the audited accounts for the said Financial Years. The respective True-Up Petition are already submitted before the Hon'ble Commission. The said revenue gap after True-up shall be met entirely through budgetary support from the Government of Goa.

Further, the It is submitted that the revenue gap for FY 2020-21 & FY 2021-22 is not being claimed as the audited accounts for the said Financial Years are in process of audit by CAG. The same would be claimed once financial statements are audited and separate True-up petition would be filed before JERC. The said revenue gap after True-up shall be met entirely through budgetary support from the Government of Goa.

Therefore, the revenue gap carried forward as per the APR submitted in this petition is NIL. In view of this, cumulative Revenue gap after proposed tariff, to be claimed in FY 2023-24 is as shown below.

Particulars	APR	Ensuing Year	
	FY 2022-23	FY 2023-24	
Net ARR	2,864.13	2,734.25	
Revenue from Existing Tariff	2,565.79	2,250.60	
Revenue Gap for the Year (at existing tariff)	298.33	483.65	
Opening Balance of Gap	0	-	
Total Cumulative Gap for years	298.33	483.65	
Less: Budgetary Support commitment provided	298.33	348.69	
Balance Gap to be recovered	0	134.96	
Proposed Gap Recovery through Tariff Hike		134.96	
Net Revenue Gap	0.00	0.00	

Table 9-1: Cumulative Revenue gap to be claimed in FY 2023-24 (Rs. Cr.)

EDG submits that it proposes to recover the cumulative Revenue Gap till FY 2023-24 through budgetary support from the Government of Goa and through partial Tariff hike as shown above.



#### **10 SEGREGATION OF WHEELING AND SUPPLY BUSINESS**

#### **10.1** Allocation Policy

EDG submits the bifurcation of all expenses of FY 2023-24 between the functions of wheeling business (wire business) and retail supply business based on the regulation 49 of the MYT Regulations, 2021. The summary of the allocation statement and the segregation of ARR into wheeling and retail supply business for FY 2023-24 is given in the table below:

Sr.	Particulars		Retail Supply Business	Total	Wheeling Business(₹ crore)	Retail Supply Business (₹ crore)
No.		%	%	Projection	Projection	Projection
Α	Receipts			FY 2023-24	FY 2023-24	FY 2023-24
1	Revenue from Sale of Power			2,250.60		
-				2,230.00		
В	Expenditure					
1	Cost of Power Purchase from Own Generating Stations			-		
2	Cost of Power Purchase from other Generating Stations	0%	100%	2,013.94		2013.94
3	Inter State Transmission Charges	0%	100%	-		
4	Intra State Transmission Charges	0%	100%	-		
5	SLDC Fees & Charges			-		
6	O&M Expenses (Gross)			525.87	241.23	284.64
	a) R&M Expenses	90%	10%	54.62	49.16	5.46
	b) Employee Cost	40%	60%	435.52	174.21	261.31
	c) A&G Expenses	50%	50%	35.73	17.87	17.87
7	Depreciation	90%	10%	77.75	69.97	7.77
8	Interest and Finance Charges	90%	10%	44.86	40.37	4.49
9	Interest on Working Capital	10%	90%	16.51	5.94	10.57
10	Prior Period Expenses			-		
	Interest on Consumer Security Deposit	10%	90%	5.37	0.54	4.83
11	Extraordinary Items			-		
12	Bad and Doubtful Debts	0%	100%	-		
13	Other Debts and Write-offs			-		
14	Statutory Levies and Taxes, if any			-		

#### Table 10-1: Allocation Statement Wheeling and Retail Supply for FY 2023-24 (Rs. Cr.)



Sr.	Particulars		Retail Supply Business	Total	Wheeling Business(₹ crore)	Retail Supply Business (₹ crore)
No.	D. Particulars	% % P		Projection	Projection	Projection
				FY 2023-24	FY 2023-24	FY 2023-24
15	Less: Expenses Capitalised					
	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
	Sub Total Expenditure (1 to 14-15)			2,684.30	358.05	2326.25
С	Return on Equity	90%	10%	79.88	71.89	7.99
D	Less: Non Tariff and other Income	10%	90%	29.93	2.99	26.93
Е	Less: Any Grant/ Subventions, other			_		
	subsidy provided by the Government			_		
F	Annual Revenue Requirement (B+C-D-			2,734.25	426.96	2307.30
	E)			-		
	Revenue Gap 'Surplus(+) / Shortfall (-)					
G	(A-F) - Before Tariff Revision			-483.65		
н	Energy Sales			4,561.91		
Ι	Average Cost of Supply (Rs./kWh)			5.99		

The Hon'ble Commission is requested to approve the segregation of ARR into Wheeling & Retail Supply Business for FY 2023-24 as per above table.



#### 11 DETERMINATION OF CHARGES RELATED TO OPEN ACCESS

#### **11.1** Approach for computation of open access charges

EDG 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.

In absence of relevant data for computation of open access charges, EDG requests Hon'ble Commission to consider the same methodology and approach as approved in Tariff Order FY 2022-23 dated 31<sup>st</sup> March 2022.

Accordingly, EDG 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 2022-23.

Wheeling Loss at HT & EHT Level - 3.55% (balance losses attributable to LT Level)

#### **11.2** Computation of Wheeling Charge and losses

In line with methodology, adopted by Hon'ble Commission in previous tariff orders for FY 2021-22 & FY 2022-23 and based on above mentioned projections for Sales & Wheeling ARR for FY 2023-24, EDG has calculated wheeling charges for LT and HT/EHT level. Following methodology has been adopted:

- O&M Expenses consisting of Employee, A&G and R&M expenses are allocated to each voltage level based on number of consumers.
- All expenses other than the O&M expenses are allocated to each voltage level based on voltage wise asset allocation.
- The resultant cost at HT/EHT voltage level derived after performing the above steps is then divided between LT and HT/EHT voltage level on the basis of input energy at respective voltage levels, since the HT/EHT network is used by consumers of both HT/EHT and LT voltage levels.

EDG submits that parameters assumed for allocation of wheeling cost at LT and HT/EHT level are tabulated below:



Input	Consumers	Asset Allocation (%)	Sales (MU)	Cumulative Voltage Wise Losses (%)	Energy Input (MU)
Low Tension (LT) Level	725533	60%	2071.21	13.71%	2400.36
High Tension (HT)/ Extra High Tension (EHT)Level	1282	40%	2490.70	3.55%	2582.37
Total	726815	100%	4561.91	8.45%	4982.73

#### Table 11-1: Parameters assumed for allocation of Wheeling Cost

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

#### Table 11-2: Allocation of Wheeling Cost based on voltage Level for FY 2023-24

Input	O&M expenses (Rs.Cr.)	Other Expenses (Rs.Cr.)	Total Expenses (Rs.Cr.)	Sales (MU)
Low Tension (LT) Level	240.81	111.43	352.24	2071.21
High Tension (HT)/ Extra High Tension (EHT)Level	0.43	74.29	74.71	2490.70
Total	241.23	185.72	426.96	4561.91

Table 11-3: Computation of Wheeling Charge for FY 2023-24

Category	O&M expenses (Rs.Cr)	Other Expenses (Rs.Cr)	Total Expenses (Rs.Cr)	Sales (MU)	Wheeling Charges (Rs./kWh)
Low Tension (LT) Level	240.81	111.43	352.24	2071.21	1.70
High Tension (HT)/ Extra High Tension (EHT)Level	0.43	74.29	74.71	2490.70	0.30
Total	241.23	185.72	426.96	4561.91	0.94

Therefore, EDG requests the Hon'ble Commission to approve wheeling charge for HT/EHT and LT category as computed in the above tables

#### 11.3 Computation of Additional Surcharge for FY 2023-24

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:"

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"

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.]"

In line with above regulations, EDG has determined the Additional Surcharge as per the following:

Category	FY 2023-24
Total Power Purchase Cost for FY 2021-22 (Rs. Cr)	2,013.94
Fixed Cost Component in Power Purchase Cost (excluding transmission charges) (Rs. Cr)	421.43
Energy Sales (MU)	4561.91
Additional Surcharge (INR/kWh)	0.92

Table 11-4: Additional Surcharge for FY 2023-24

EDG request Hon'ble Commission to approve additional surcharge for FY 2023-24 as computed in the above table.



#### **11.4** Computation of Cross Subsidy Surcharge for FY 2023-24

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.

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

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

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 the per unit cost of carrying regulatory assets."

However, calculation of Cross subsidy surcharge is calculated in this chapter as per methodology adopted by Hon'ble Commission in the previous tariff orders for FY 2021-22 and FY 2022-23.

Voltage wise losses for HT/EHT is considered at 3.55%. In order to maintain the Intra-State T&D losses at 8.45% for FY 2023-24, losses at LT level has been computed. Accordingly, voltage wise losses considered for the calculation of Cross-subsidy Surcharge for FY 2023-24 is provided as below:

Category	Voltage Level Losses (%)	Cumulative Loss upto that voltage level (%)
Low Tension (LT) Level	13.63%	13.71%
High Tension (HT)/ Extra High Tension (EHT)Level	3.55%	3.55%
Total	8.45%	8.45%

#### Table 11-5: Voltage wise losses assumed for FY 2023-24

Based on the Voltage wise energy sales projected for FY 2023-24, voltage level wise energy input is calculated as given below:

Category	Sales (MU)	Cumulative Loss upto that voltage level (%)	Energy Input (MU)
Low Tension (LT) Level	2071.21	13.71%	2400.36
High Tension (HT)/ Extra High Tension (EHT)Level	2490.70	3.55%	2582.37
Total	4561.91	8.45%	4982.73

Table 11-6: Voltage wise Energy Input for FY 2023-24

Overall ARR arrived for FY 2023-24 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.

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



Total

Category	Energy Input (MU)	Voltage Wise Allocation (%)	Number of Consumers
Low Tension (LT) Level	2400.36	60%	725533
High Tension (HT)/ Extra High Tension (EHT)Level	2582.37	40%	1282
Total	4982.73	100%	726815

#### Table 11-7: Parameters used for allocation of fixed costs for FY 2023-24

The Variable component of the Power purchase cost is allocated based on the energy input.

The Voltage wise cost of supply (VCoS) is then calculated based on the energy sales of respective categories. Accordingly, the VCoS is determined as shown in the table below:

Category	Allocated Fixed Cost (Rs.Cr.)	Allocated Variable Cost (Rs.Cr.)	Total Cost (Rs.Cr.)	Energy Sales (MU)	VCoS (Rs./kWh)
Low Tension (LT) Level	696.58	767.17	1463.75	2071.21	7.07
High Tension (HT)/ Extra High Tension (EHT)Level	445.16	825.34	1270.51	2490.70	5.10

1592.51

1141.74

 Table 11-8: Voltage Wise Cost of Supply (VCoS) for FY 2023-24

As per above VCoS calculated and applicable level wise ABR level, EDG has computed the Cross-Subsidy Surcharge for FY 2023-24 as provided in the table give below:

2734.25

 Table 11-9: Cross-Subsidy Surcharge for FY 2023-24

Category	VCoS (Rs./kWh)	ABR (Rs./kWh)	Cross Subsidy Surcharge (Rs./kWh)
Low Tension (LT) Level	7.07	4.15	
High Tension (HT)/ Extra High Tension (EHT)Level	5.10	6.13	1.03

Therefore, EDG requests the Hon'ble Commission to approve the cross-subsidy surcharge for FY 2023-24 as computed in the above tables.

4561.91

5.99



### 12 COMPLIANCE OF DIRECTIVES GIVEN BY HON'BLE COMMISSION

EDG submits that the Hon'ble Commission in its Tariff Order for FY 2021-22 dated 31<sup>st</sup> March 2022 had laid down certain directives to be complied by EDG. The directives as provided by the Hon'ble Commission and the status of the said directives are replied as below:

#### **12.1** Status of Compliance of Directives issued in tariff order dated **31**<sup>st</sup> March **2022**

S. No.	Directives in brief	Commission`s Direction in the Tariff Order for FY 2022-23 dated 31 <sup>st</sup> March 2022	Compliance by the Electricity Department, Goa
1.	Annual Statement of Accounts	The Commission has taken a serious note of this issue. ED- Goa has failed to comply with the directive every year since the issuance of Tariff Order dated 27th June 2012. ED-Goa is directed to submit the audited annual accounts for FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21 and FY 2021-22 by November 2022 along with Tariff petition for FY 2023-24.	EDG has filed the True-up Petitions for FY 2017-18, FY 2018-19 & FY 2019-20 before the Hon'ble JERC on August 2022 and Public hearing for the same is also been conducted. Financial Accounts for FY 2020-21 & FY 2021-22 are completed. The CAG audit team is auditing the accounts. Upon completion of the audit of the Accounts for FY 2020-21 & FY 2021-22 the True-up Petitions for FY 2020- 21 & FY 2021-22 will be submitted before the Hon'ble JERC by December 20, 2022.
2.	Preparation of Fixed Asset Register	ED-Goa is directed to submit the information upto FY 2021- 22 in the next tariff petition along with the audited annual accounts as sought in the preceding directive. The Petitioner is to also ensure that the FAR reports contain the details of the assets which have completed 90% of their but are still included in the FAR.	The FAR for FY 2020-21 & FY 2021-22 will be submitted along with the Audited accounts in the True-Up Petitions of FY 2020-21 & FY 2021-22.
3.	Energy Audit Reports	The Commission has noted with serious concern that the Petitioner has not submitted the Energy Audit Reports for previous years despite repeated directions. The	As per the guidelines from Bureau of Energy Efficiency, Quarterly and Annual Audits have to be carried out by each DISCOM. EDG has already submitted draft Annual



S. No.	Directives in brief	Commission`s Direction in the Tariff Order for FY 2022-23 dated 31 <sup>st</sup> March 2022	Compliance by the Electricity Department, Goa
		Commission directs the Petitioner to expedite the process and complete the Energy Audit of the State on priority, and positively submit the same along with Tariff Petition for FY 2023-24.	Audit reports for the year 2020-21 and 2021-22 to the consultant appointed by GED for scrutiny. The Quarter and Annual reports for the year 2020-21 and 2021-22 will be submitted to BEE immediately after the scrutiny from the consultants and the same will be submitted to hon'ble JERC.
4.	Employee Cost / Manpower study	The Commission is yet to receive the Manpower Study report from the Petitioner. The Commission directs the Petitioner to submit the same within one month of the issuance of this Order.	ED-Goa has completed the Employee Cost/Manpower Study. The same is submitted in <b>Annexure-3</b> .
5.	Interest on Consumer Security Deposit	The Commission directs ED-Goa to ensure payment of interest on security deposit upto FY 2021-22 as per the provisions of Supply Code, 2018.	The payment of Interest towards consumer's security deposit upto FY 2021-22 is Rs. 5.50 Crore is paid to the consumers.
6.	Sub Divisions as Strategic Business Units	The Commission is yet to receive the compiled data as stated by the EDG. The EDG is directed to submit the data for Strategic Business Unit for Sub-Division of Division-IV and Division-XVII within one month of the issuance of this Order.	While collecting the Data for Strategic Business Unit for Sub-Division of Division 4 & 17 it is observed that the Sub-Divisions of the said divisions are transferring power between them and the same is not accounted. In this regard there is an issue in determining the exact distribution loss at Sub-Division Level. So, after completion of the Energy Auditing at Sub-Division level the same shall be initiated.
7.	Installation of Pre Paid Meters	The Commission directs ED-Goa to expedite the process and submit an updated status with the next quarterly progress report.	The Electricity Department has been sanctioned 750356 Prepaid Smart meters under Revamped Distribution Sector Scheme (RDSS) as per the Sanction letter dated 10/10/2022 attached as <b>Annexure-4</b> . The Electricity Department is in process of obtaining approvals for



S. No.	Directives in brief	Commission`s Direction in the Tariff Order for FY 2022-23 dated 31 <sup>st</sup> March 2022	Compliance by the Electricity Department, Goa
			floating of the tender. The timelines for installation of all Pre-paid Smart meters is March, 2025.
8.	Unbundling of Electricity Department	The Commission directs the Petitioner to submit the documentary evidence for the decision of the Govt. of Goa to the Commission within one month of the issuance of this Order.	EDG had submitted proposal to the Government in regard to Unbundling of the Electricity Department. The documentary evidence in regard to the decision of the Government will be submitted no sooner received from the Government of Goa.
9.	Renewable Purchase Obligation	The Commission appreciates the efforts undertaken by the Petitioner towards fulfilment of RPO. The Petitioner is emphasizing on procuring more physical power than purchase REC's in accordance with the Commissions directions. The Petitioner is directed to continue its efforts towards fulfilment of RPO and ensure yearly compliance are achieved.	ED-Goa has fulfilled 61.86% (Overall) upto H1 of FY 2022- 23 considering the actual Renewable Power purchase position (Physical Power and REC). EDG has already submitted the action plan to fulfill the entire RPO along with the backlog of FY 2021-22 by 31 <sup>st</sup> March 2023.
10.	Billing and Collection Efficiency	The Commission is yet to receive the report from the Petitioner. The Commission directs the Petitioner to submit the same within one month of the issuance of this Order.	The EDG has submitted the Report on One Time Settlement Scheme 2020 is before the Hon'ble Commission in the 1st Quarter Directives compliance report of FY 2021-22.
11.	Determination of Category wise/ Voltage wise Cost of supply	The Petitioner is directed to submit voltage-wise and category-wise details of assets, O&M expenses and fixed asset cost allocation for the last 3 years along with the Tariff Petition for FY 2023-24.	GIS Mapping of all Assets have been completed. The voltage wise and category wise units have also been identified during the Energy Audit process. GED is in process of appointment of consultant for identify voltage-wise and category-wise details of assets, O&M expenses and fixed asset cost allocation for the last 3 years.
12.	Submission of Petition for	The Commission mentioned that the progress shown by the Petitioner is not satisfactory and the Commission has taken	EDG has filed the True-up Petitions for FY 2017-18, FY 2018-18 & FY 2019-20 before the Hon'ble JERC.



S. No.	Directives in brief	Commission`s Direction in the Tariff Order for FY 2022-23 dated 31 <sup>st</sup> March 2022	Compliance by the Electricity Department, Goa
	True up of FY 2017-18, FY 2018-19, FY 2019-20 and FY 2020-21.	a serious note of this issue. ED-Goa is directed to submit the audited annual accounts for FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21 and FY 2021-22 by 30th November 2022.	Financial Accounts for FY 2020-21 & FY 2021-22 are completed. The CAG audit team is auditing the accounts. Upon completion of the audit of the Accounts for FY 2020-21 & FY 2021-22 the True-up Petitions for FY 2020- 21 & FY 2021-22 will be submitted before the Hon'ble JERC by December 20, 2022.
13.	Collection of data based on consumer type	The Commission directs ED-Goa to start collecting information of energy sales, connected load, number of consumers, power factor, ToD sales etc., wherever applicable, for different type of consumers such as Hotel Industries, Govt./Private educational institutions, Govt./Private hospitals etc. within the existing categories and submit the requisite information along with the next quarterly progress report. The Commission is yet to receive the requisite details from the Petitioner. The Commission directs the Petitioner to submit the same within one month of the issuance of this Order.	The requisite data has been submitted to the Commission in the MYT ARR Tariff Petition No.63 of 2021 in the Annexure-6.
14.	kVAh based tariff for LT- Industrial and LT- Commercial categories.	The Commission is considering the introduction of kVAh based tariff for LT-Industrial and LT-Commercial categories. Accordingly, the Petitioner is hereby directed to submit a compliance report indicating its readiness for implementation of kVAh billing for LT-Industrial and LT- Commercial categories with the next tariff petition.	The Electricity Department has been sanctioned 750356 Prepaid Smart meters under Revamped Distribution Sector Scheme (RDSS) as per the Sanction letter dated 10/10/2022. The timelines for installation of all Pre-paid Smart meters is March, 2025. The kVAh based billing will be carried out for LT Commercial and LT Industrial after installation of the Smart Meters.



### 13 PRAYER'S TO THE COMMISSION

#### 13.1 Prayer to the Hon'ble Commission

The Electricity Department, Government of Goa (EDG) respectfully prays to the Hon'ble Commission to:

- a) Accept and admit the petition for APR of FY 2022-23 and Aggregate Revenue Requirement FY 2023-24 and Tariff Determination for FY 2023-24 which is in line with the principles laid by the Hon'ble Commission contained in MYT Tariff Regulations 2021;
- b) Approve the total recovery and revenue gap for Annual Performance Review for FY 2022-23 and ARR & Tariff for FY 2023-24 and other claims as proposed by EDG;
- c) Approve the Revenue Gap for FY 2022-23 of Rs. 298.33 Cr. as per APR and standalone Revenue Gap considering revenue from proposed tariff amounting to Rs. 348.69 Cr. for FY 2023-24 on provisional basis and the revenue gap as may be approved by the Hon'ble Commission during the process of finalising tariff petition;
- d) To consider the Tariff Design Philosophy and grant approval for proposed changes in Tariff Schedule (changes in applicability clauses), charges for services, miscellaneous charges and general terms & condition of the tariff order for FY 2023-24;
- e) Approve the revenue at proposed tariff for FY 2023-24 and the gap of Rs. 348.69 Cr. till FY 2023-24. The revenue gap of Rs. 348.69 Cr. is proposed to be met from the budgetary support by the Government of Goa. The letter for the Budgetary Support shall be submitted after issuance of the same by Government of Goa;
- Pass suitable orders with respect to APR for FY 2022-23 and ARR for FY 2023-24 & Tariff Determination Proposal for 2023-24 for the expenses to be incurred by EDG for serving its consumers;
- g) Grant any other relief as the Hon'ble Commission may consider appropriate;
- h) 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;
- i) Condone any inadvertent omissions/errors/shortcomings and permit EDG to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date;
- j) 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.

The Petitioner declares that the subject matter of the petition has not been raised by the petitioner before any other competent forum, and that no other competent forum is currently seized of the matter or has passed any order in relation thereto.



#### 14 ANNEXURES.

- 14.1 Annexure 1: Tariff Formats
- 14.2 Annexure 2: Defense Ministry Letter
- 14.3 Annexure-3: Directives-Manpower Details
- 14.4 Annexure 4: Directives- Revamped Distribution Sector Scheme (RDSS) Sanction letter

- Pass suitable orders with respect to APR for FY 2022-23 and ARR for FY 2023-24 and Tariff Determination Proposal for FY 2023-24 for the expenses to be incurred by EDG for serving its consumers;
- g) Grant any other relief as the Hon'ble Commission may consider appropriate;
- h) 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;
- i) Condone any inadvertent omissions/errors/shortcomings and permit EDG to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date;
- j) 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.

Electricity Department, Government of Goa

Petitioner

Place: Panaji Dated: 30<sup>th</sup> November 2022

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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.

#### Form F2

#### Annual Revenue Requirement

Sr.		Wires Business	Retail Supply		Revised	ARR	Control		Control Period
No.	Particulars	%	%	Remarks	Estimates	Projection	Estimated	Projection	Projection
A	Receipts				FY 2022-23	FY 2023-24	FY 2022-23	FY 2023-24	FY 2023-24
1	Revenue from Sale of Power				2,565.79	2,250.60			
	Revenue Itolii Sale ol Power				2,303.79	2,230.00			
в	Expenditure								
1	Cost of Power Purchase from Own Generating Stations								
2	Cost of Power Purchase from other Generating Stations	0%	100%		2.230.19	2.013.94			2013.9
3	Inter State Transmission Charges	0%	100%		-				
4	Intra State Transmission Charges	0%	100%		-	-			
	SLDC Fees & Charges								
6	O&M Expenses (Gross)				497.08	525.87	229.52	241.23	284.64
	a) R&M Expenses	90%	10%		54.62	54.62	49.16	49.16	5.46
	b) Employee Cost	40%	60%		408.71	435.52	163.48	174.21	261.31
	c) A&G Expenses	50%	50%		33.74	35.73	16.87	17.87	17.87
7	Depreciation	90%	10%		58.92	77.75	53.03	69.97	7.77
8	Interest and Finance Charges	90%	10%		26.76	44.86	24.09	40.37	4,49
9	Interest on Working Capital	10%	90%		14.92	16.51	5.23	5.94	10.57
	Prior Period Expenses				-	-			
	Interest on Consumer Security Deposit	10%	90%		5.36	5.37	0.54	0.54	4.8
11	Extraordinary Items				-	-			
12		0%	100%		-	-			
13	Other Debts and Write-offs				-	-			
14	Statutory Levies and Taxes, if any					-			
15	Less: Expenses Capitalised								
	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	0.0
	Sub Total Expenditure (1 to 14-15)				2,833.23	2,684.30	312.40	358.05	2326.2
С	Return on Equity	90%	10%		60.26	79.88	54.23	71.89	7.9
D	Less: Non Tariff and other Income	10%	90%		29.36	29.93	2.94	2.99	26.9
Е	Less: Any Grant/ Subventions, other subsidy provided by the Government				-	-			
F	Annual Revenue Requirement (B+C-D-E)				2,864.13	2,734.25	363.69	426.96	2307.3
G	Revenue Gap 'Surplus(+) / Shortfall (-) (A-F) - Before Tariff Revision				-298.33	-483.65	-363.69	-426.96	-2307.3
	Revision								
	Energy Sales	1			4,430,74	4.561.91			
	Average Cost of Supply (Rs./kWh)				6.46	5.99			
		I			0.40	0.00			
	Revenue at Existing Tariff					2250.60			
	Revenue at Proposed Tariff	l				2385.56			
	Projected additional Revenue on Tariff Hike					134.96			
	Tariff Hike (%)					6.00%			-
				1					

Form F4

#### Summary of Station Wise details of Power Purchase from Own and Other Sources

<table-container>      Net     But     But<!--</th--><th></th><th></th><th colspan="10"><u> </u></th><th colspan="7">Months in the FY 2021-22</th><th colspan="4"></th><th colspan="2"></th></table-container>			<u> </u>										Months in the FY 2021-22												
International prime         Internatinternational prime         International pri	S. No	Source	Ар	oril	Ма	iy	Ju	ine	Ju	ıly	Aug	ust					Nove	mber	Dece	mber	Jan	uary	Febr	uary	Ma
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)	MU
more         more <th< td=""><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	1																								
C 000000         C 000000         C 000000         C 0000000         C 00000000         C 00000000         C 000000000         C 0000000000         C 000000000000000         C 000000000000000000000000000000000000			342.93	92.15	302.03	104.89	286.25	89.75	303.05	94.22	296.88	93.85	313.53	97.26	336.92	107.66	322.63	99.86	311.46	100.35	323.59	105.39	293.62	97.28	321.86
Lingent         207         S50         210         250																									121.49
ch 0.007872_         COS         2.01         9.88         2.41         Cole         2.41			4.65	1.09	4.80	1.31		1.31	3.24				4.64		4.81		4.67				4.83		4.34		4.79
D         Control         Cont																									25.01
Indext         100         200<																									10.71 8.58
Chronologies - Construction         Construction <t< td=""><td></td><td>VSTPS-4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.05</td><td>9.95</td></t<>		VSTPS-4																						3.05	9.95
Diposystem         133         101         178         135         0.00         <	(vii)		9.87		7.17		6.47		5.43						7.18	4.10	3.47				8.64	5.01		5.20	9.70
Closentry         Lines         4.60         Tr.C.         4.80         4.01         5.20         4.03         4.01																2.20								0.63	0.00
Integration         Eds         210         845         230         827         220         828         720         828         720         828         720         828         720         828         720         828         720         828         720         828         720         828         721 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.00 13.15</td></th<>																									0.00 13.15
Import         Construction         Construction <thconstruction< th="">         Construction</thconstruction<>	()																								9.21
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																								1.47	0.00
Inv         Starts-2         0.00        <																								4.17	6.43
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																									11.27
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	()																								0.00
Chool Best 1         6644         1640         46.51         21.1         47.82         16.2         17.8         45.83         51.8         21.00         27.8         17.8         43.8         19.0         27.8         19.2         10.1         43.8         19.0         27.8         10.2         11.4         54.0         11.4         55.0         12.5         81.8         40.0         73.6         64.0         10.7         11.6         65.0         10.0																									8.63
Color Reargence         502         Color All stagence         502         Color All stagence         Colo																			41.70					16.49	58.67
e         NCCL         (14.22)         4.28         (15.00)         4.57         (13.84)         4.28         (13.84)         4.28         (13.84)         4.28         (13.84)         4.28         (13.84)         4.28         (13.85)         (13			9.02		1.99	2.54	0.00		4.31		5.31		8.15	4.10		4.29	10.74	5.65	10.74		11.44	5.49	11.47	5.60	10.29
e         NCCL         (14.22)         4.28         (15.00)         4.57         (13.84)         4.28         (13.84)         4.28         (13.84)         4.28         (13.84)         4.28         (13.84)         4.28         (13.85)         (13	-	NPC																							
Op/OAPS         5.28         1.19         7.14         1.68         8.88         2.28         0.08         2.44         9.87         2.12         1.10         2.85         0.56         2.26         1.03         3.55         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.35         9.98         3.36         0.56         1.33         0.06         1.33         0.06         1.36         0.06         1.37         0.06         1.38         0.06         1.38         0.08			14 22	4 25	15.90	4 57	19.82	5.60	21.03	5.94	19.51	5.95	17.03	4 96	21.37	5.46	20.87	5.87	21.68	6 10	16 72	4.63	15.84	4 24	21.56
(ii)         TAPS         9.01         3.06         9.76         2.80         0.30         9.36         3.54         9.96         3.27         0.03         3.37         0.03         3.28         5.80         0.00 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.35</td><td>11.16</td></th<>																								2.35	11.16
Oll Barking Drawal         9.18         0.03         0.03         0.00 <td></td> <td>1.89</td> <td>10.40</td>																								1.89	10.40
Oll Barking Drawal         9.18         0.03         0.03         0.00 <td>_</td> <td></td>	_																								
(b) Banking Injection         0.00	2																								13.67 13.67
Image: state of the s																									0.00
Dill EX Purchase and Sales         2362         1132         -2383         -449         -746         -227         -704         -411         6.20         281         -733         -333         -338         -438         -448         -746         -227         -70	()	Banang njoodon	0.00	0.00	0.00	0.00	20.00	0.00	20.00	0.00	LL.UL	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EXP Purchase         3663         15.77         7.76         2.66         3.84         14.32         6.77         1.95         1.16         1.23         6.27         4.20         1.66         7.27         3.82         1.26         5.65         2.07           IEX Sales         1.00         3.85         3.70         1.76         2.64         7.74         2.46         1.41         2.42         5.86         1.46         4.46         1.42         4.00         1.46         4.46         1.46         4.46         1.46         4.46         1.46         4.46         1.70         2.81         1.01         2.81         2.01         2.81         2.91         2.81         2.91         2.81         2.91         2.81         2.91         2.81         2.91         2.81         2.91         2.81         2.91         2.81         2.91         2.81         2.91         2.81         2.91	4																								
EX Sales         13.00         3.86         37.00         9.16         77.6         9.248         7.46         8.12         4.16         2.441         14.28         9.00         11.17         4.99         37.30         11.70         28.15         9.13         27.77         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.87         9.69         27.81         17.87         47.81         44.81         4.81         4.41         6.7         4.81         4.42         4.81         4.81         4.41         17.8         4.23         17.80         4.23         17.80         4.11         17.89         4.23         17.30         4.11         2.81         8.80         1.18         2.31         1.30         6.33         1.30         6.33         1.02         0.41         1.18         2.31         1.30         0.60<	(i)			-																	-	-	-		6.41
Image: Drawel)         0.00																									16.82
Traders (Inection)         0.00 <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td>10.41</td>																	-			-			-		10.41
Image: Section of the sectio	(ii)	· · · · ·																-					-		0.73
CO-CORDENATION         15.35         3.69         12.54         2.96         16.50         3.96         17.81         4.28         15.87         4.41         17.59         4.23         17.30         4.16         12.11         2.88         8.09         1.9.42           Goa Sponge and private limited         0.46         0.11         0.62         0.15         0.48         0.12         0.41         0.10         0.31         0.06         0.29         0.07         0.27         0.66         0.33         0.68         0.37         0.08         0.41         0.13         0.68         0.29         0.07         0.27         0.66         0.33         0.68         0.41         0.13         0.66         0.29         0.07         0.27         0.68         0.37         0.09         0.41         0.15         0.41         1.17         8.86         1.03         0.57         0.53         0.57         0.55         0.57         1.75         5.38         23.54         29.92         12.44         26.15         1.03         0.57         1.04         0.57         1.05         0.43         0.68         1.43         0.53         0.57         1.04         0.53         0.57         1.05         0.53         0.64		Traders (Injection)	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	14.63	4.25	0.00	0.00	0.00
CO-CORDENATION         15.35         3.69         12.54         2.96         16.50         3.96         17.81         4.28         15.87         4.41         17.59         4.23         17.30         4.16         12.11         2.88         8.09         1.9.42           Goa Sponge and private limited         0.46         0.11         0.62         0.15         0.48         0.12         0.41         0.10         0.31         0.06         0.29         0.07         0.27         0.66         0.33         0.68         0.37         0.08         0.41         0.13         0.68         0.29         0.07         0.27         0.66         0.33         0.68         0.41         0.13         0.66         0.29         0.07         0.27         0.68         0.37         0.09         0.41         0.15         0.41         1.17         8.86         1.03         0.57         0.53         0.57         0.55         0.57         1.75         5.38         23.54         29.92         12.44         26.15         1.03         0.57         1.04         0.57         1.05         0.43         0.68         1.43         0.53         0.57         1.04         0.53         0.57         1.05         0.53         0.64	5	Within State Generations																							
Goa Sponge and private limited         0.46         0.11         0.62         0.15         0.48         0.12         0.42         0.10         0.31         0.06         0.27         0.06         0.33         0.08         0.37         0.09         0.49         0.11           Vednia Pan-2         4.54         1.09         5.28         1.22         6.14         1.47         6.55         1.57         6.52         1.58         1.78         8.16         1.96         7.83         1.88         6.08         1.44         6.61         1.57           6         RPO Obligation         21.88         6.9         6.270         22.68         70.72         30.28         61.11         25.92         25.86         29.92         1.24         25.15         10.07         37.53         14.50         34.68         14.60           Solar         1.19         0.65         1.23         0.67         1.05         0.58         1.02         0.56         0.93         0.51         0.44         0.65         1.13         0.62         1.16         0.64         1.07         0.55         Sclar STOA         5.34         2.51         1.55         5.43         12.65         5.95         0.00         0.07         2.37		CO- GENERATION	15.35		12.54		16.50				15.89	3.81		4.31	18.37	4.41		4.23	17.30		12.11	2.89		1.94	10.90
Vedania Plant-2         4.54         1.09         5.28         1.22         6.14         1.47         6.52         1.55         7.41         1.78         8.16         1.88         8.04         1.93         6.68         1.44         6.61         1.55           6         RPO Obligation         21.88         8.69         62.70         26.68         70.72         30.29         61.11         25.12         63.92         26.92         53.85         23.54         29.92         12.44         25.15         10.07         37.53         14.73         36.66         1.44         6.61         1.55           Solar         1.19         0.55         1.20         0.55         1.02         0.55         1.02         0.51         1.03         0.57         1.06         0.58         1.01         0.55         1.02         0.51         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.50         0.51         0.51         0.51																								0.24	5.53
6         Pro Obligation         21.8         6.89         62.70         26.8         70.72         30.29         61.11         25.12         63.92         26.82         23.64         29.82         12.44         25.16         14.73         36.06         14.50         34.86         14.80           Solar         -														0.00											0.22
Solar         Solar <th< td=""><td></td><td>Vedanta Plant-2</td><td>4.54</td><td>1.09</td><td>5.28</td><td>1.22</td><td>6.14</td><td>1.47</td><td>6.55</td><td>1.57</td><td>6.52</td><td>1.55</td><td>7.41</td><td>1.78</td><td>8.16</td><td>1.96</td><td>7.83</td><td>1.88</td><td>8.04</td><td>1.93</td><td>6.08</td><td>5 1.44</td><td>0.01</td><td>1.59</td><td>5.15</td></th<>		Vedanta Plant-2	4.54	1.09	5.28	1.22	6.14	1.47	6.55	1.57	6.52	1.55	7.41	1.78	8.16	1.96	7.83	1.88	8.04	1.93	6.08	5 1.44	0.01	1.59	5.15
Solar         Solar <th< td=""><td>6</td><td>RPO Obligation</td><td>21.88</td><td>8.69</td><td>62.70</td><td>26.68</td><td>70.72</td><td>30.29</td><td>61.11</td><td>25.12</td><td>63.92</td><td>26.92</td><td>53.85</td><td>23.54</td><td>29.92</td><td>12.44</td><td>25.15</td><td>10.07</td><td>37.53</td><td>14.73</td><td>36.06</td><td>14.50</td><td>34.68</td><td>14.08</td><td>34.21</td></th<>	6	RPO Obligation	21.88	8.69	62.70	26.68	70.72	30.29	61.11	25.12	63.92	26.92	53.85	23.54	29.92	12.44	25.15	10.07	37.53	14.73	36.06	14.50	34.68	14.08	34.21
NV/NL Solar         1.19         0.65         1.23         0.67         1.06         0.58         0.51         0.94         0.51         1.03         0.67         1.06         0.68         1.13         0.62         1.16         0.64         1.07         0.55           SEIC Solar         4.73         2.50         4.76         2.62         4.14         2.28         3.10         1.03         0.57         1.06         0.68         1.13         0.62         1.16         0.64         2.24         4.56         2.55         5.55         0.00         0.00         7.42         3.23         3.17         3.99         6.31         3.01         11.00         4.78         19.37         8.43         19.70         8.57         18.62         8.10           Net Metering         1.17         0.34         1.07         0.26         0.24         1.19         0.34         1.23         0.35         1.41         0.40         1.51         0.43         1.83         0.55           GTAM																									
SECI Solar         4.73         2.60         4.76         2.62         4.14         2.28         3.10         1.71         2.60         1.43         3.03         1.67         4.30         2.37         3.94         2.17         3.67         2.02         4.03         2.22         4.56         2.51           Solar STOA         5.34         2.51         11.55         5.43         12.65         5.95         0.00         0.07         7.23         9.17         3.99         6.91         3.01         1.00         4.78         1.83         1.83         0.55           GTAM         1.07         0.31         0.91         0.26         0.82         0.24         1.19         0.35         1.41         0.40         1.21         0.35         1.39         0.40         1.51         0.43         1.83         0.55           GTAM         - <td< td=""><td></td><td></td><td>4.40</td><td>0.05</td><td>4.00</td><td>0.07</td><td>4.05</td><td>0.50</td><td>4.00</td><td>0.50</td><td>0.00</td><td>0.51</td><td>0.01</td><td>0.51</td><td>4.00</td><td>0.57</td><td>1.00</td><td>0.50</td><td>4.40</td><td>0.00</td><td>4.40</td><td>0.01</td><td>4.07</td><td>0.50</td><td>1.00</td></td<>			4.40	0.05	4.00	0.07	4.05	0.50	4.00	0.50	0.00	0.51	0.01	0.51	4.00	0.57	1.00	0.50	4.40	0.00	4.40	0.01	4.07	0.50	1.00
Solar STOA         5.34         2.51         11.55         5.43         12.65         5.95         0.00         7.42         3.29         6.91         3.01         11.00         4.78         19.37         8.43         19.70         8.67         18.62         8.11           Net Metring         1.17         0.34         1.07         0.31         0.91         0.26         0.22         1.19         0.34         1.23         0.35         1.41         0.40         1.21         0.35         1.39         0.40         1.51         0.43         1.82         8.63           GTAM	H																								1.23 5.22
Net Metering         1.17         0.34         1.07         0.31         0.91         0.26         0.82         0.24         1.19         0.34         1.23         0.35         1.41         0.40         1.21         0.35         1.39         0.40         1.51         0.43         1.83         0.53           GTAM	-																								13.99
Non-Solar         State         Non-Solar         Non-Solar         Non-Solar         Non-Solar         Non-Solar         Non-Solar         Non-Solar         Non-Solar <td></td> <td>Net Metering</td> <td></td> <td>2.31</td>		Net Metering																							2.31
Non Solar - SECI Wind Tranche II LTOA         9.32         2.53         15.46         4.19         16.05         4.35         19.03         5.16         14.77         4.00         7.96         2.16         7.79         2.11         7.81         2.12         11.91         3.23         9.57         2.59         8.47         2.25           Non Solar - SECI Wind Tranche VLTOA         0.00 <td< td=""><td></td><td>GTAM</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		GTAM																							
Non Solar - SECI Wind Tranche II LTOA         9.32         2.53         15.46         4.19         16.05         4.35         19.03         5.16         14.77         4.00         7.96         2.16         7.79         2.11         7.81         2.12         11.91         3.23         9.57         2.59         8.47         2.25           Non Solar - SECI Wind Tranche VLTOA         0.00 <td< td=""><td></td><td>Non-Solar</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		Non-Solar																							
Non Solar SECI Wind Tranche VI LTOA         0.00			9.32	2.53	15.46	4,19	16.05	4.35	19.03	5.16	14.77	4.00	7,96	2.16	7,79	2.11	7,81	2.12	11.91	3.23	9.57	2.59	8.47	2.29	10.97
Hindustan waste treatment plant Goa         0.13         0.06         0.10         0.05         0.09         0.05         0.10         0.07         0.14         0.07         0.14         0.07         0.13         0.07         0.04         0.07																									0.00
REC Certificates         Image: Constraint of the state of the s		Hindustan waste treatment plant Goa	0.13	0.06	0.10	0.05	0.09	0.05	0.10	0.05	0.13	0.07	0.14	0.07	0.14	0.07	0.13	0.07	0.07	0.04	0.10	0.05	0.14	0.07	0.47
Solar-REC		Non Solar STOA	0.00	0.00	28.54	13.41	35.82	16.84	37.05	17.41	36.88	17.33	31.37	14.79	8.33	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar-REC       Image: Constraint of the second secon																									
Solar-REC       Image: Constraint of the second secon	7	REC Certificates																							
9         Ul (Net Overdrawal)         -3.21         -0.35         -7.02         -0.67         -1.24         -2.19         -0.40         0.70         0.64         0.46         0.39         1.05         2.20         -1.46         0.51         4.77         2.01         5.43         1.94         5.76         2.66           Overdrawal         2.28         0.99         1.06         0.38         0.72         0.30         0.68         0.29         1.88         1.20         1.13         0.56         2.91         2.35         1.49         4.77         2.01         5.43         1.94         5.76         2.66           Underdrawal         5.49         1.34         8.07         1.04         1.96         0.30         3.07         0.70         1.18         0.56         0.67         0.17         2.51         0.49         4.77         2.01         5.43         1.94         5.76         2.66           Underdrawal         5.49         1.34         8.07         1.04         1.96         0.30         3.07         0.70         1.18         0.56         0.67         0.17         2.51         0.40         0.00         0.00         0.00         0.00         0.00         0.00         0.00	<u> </u>																				70	19.70	25	6.82	
Overdrawal         2.28         0.99         1.06         0.38         0.72         0.30         0.88         0.29         1.88         1.20         1.13         0.56         3.56         2.91         2.35         1.49         4.77         2.01         5.43         1.94         5.78         2.66           Underdrawal         5.49         1.34         8.07         1.04         1.96         0.30         3.07         0.70         1.18         0.56         0.57         0.71         2.51         0.71         3.81         0.98         0.00		Non Solar- REC																							
Overdrawal         2.28         0.99         1.06         0.38         0.72         0.30         0.88         0.29         1.88         1.20         1.13         0.56         3.56         2.91         2.35         1.49         4.77         2.01         5.43         1.94         5.78         2.66           Underdrawal         5.49         1.34         8.07         1.04         1.96         0.30         3.07         0.70         1.18         0.56         0.57         0.71         2.51         0.71         3.81         0.98         0.00	_																								
Underdrawal 5.49 1.34 8.07 1.04 1.96 0.30 3.07 0.70 1.18 0.56 0.67 0.17 2.51 0.71 3.81 0.98 0.00 0.00 0.00 0.00 0.01 0.00	9							0.20																	21.64
																									21.64 0.00
8 OTHER CHARGES 19.55 30.34 20.32 17.76 22.16 19.01 18.18 26.06 13.16 18.31 17.77		on a or an an an	0.43	1.04	0.07	1.04	1.50	0.00	0.07	0.70	1.10	0.00	0.01	0.17	2.01	0.71	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
	8	OTHER CHARGES		19.55		30.34		20.32		17.76		22.16		19.01		18.18		26.06		13.16		18.31		17.71	

Form F4

#### Summary of Station Wise details of Power Purchase from Own and Other Sources

S. No												M	onths in the	e FY 2021-2	22									
5. NO	Source	Ар	ril	Ма	ıy	Ju	ne	Ju	ly	Aug	gust	Septe	mber	Octo	ober	Nover	nber	Decer	mber	Janu	uary	Febr	uary	Mai
	PGCIL Transmission Charges, Wheeling, Oen Access & Trading Marrgin & Other Charges		19.55		30.34		20.32		17.76		22.16		19.01		18.18		26.06		13.16		18.31		17.71	
10	Total Power Purchase	423.97	139.93	356.80	162.28	347.20	144.71	354.00	142.80	380.77	155.93	357.75	141.82	405.69	147.03	388.09	144.78	381.32	134.09	442.87	157.28	375.41	138.95	430.98

Form F4

S. No	Source	rch
		(₹ crore)
1	Central Generating Stations	(1 01010)
A	Thermal	
	NTPC KSTPS	104.26
(i) (ii)	KSTPS-3	26.11
(iii)	KSTPS-3 VSTPS-1	6.50
(iv)	VSTPS-2	2.59 6.50 2.28
(v)	VSTPS-3	2.11
(vi)	VSTPS-4 MSTPS-1	2.99 5.42
(VII)	KGPS	0.63
(ix)	JGPS	0.81
(X)	SIPAT-1	3.61
(xi)	SIPAT-2	2.46
(xii)	VSTPS-5 MST-2	0.57
(XIII) (Xiii)	SLP	6.60
(XV)	KhSTPS-2	0.00
(xvi)	Gadarwara	7.19
(xvii)	Lara	3.20
(xviii)		22.00
(XIX)	Khargone	5.02
В	NPC	-
	NPCIL	6.08
	KAPS	2.55
(ii)	TAPS	3.53
2	Denking of Device	0.05
2 (i)	Banking of Power Banking Drawal	0.05
	Banking Injection	0.00
4	Short- Term Power	
(i)	IEX Purchase and Sales	4.94
	IEX Purchase	11.12
	IEX Sales	6.18
(ii)	Traders (Drawal)	0.42
	Traders (Injection)	0.00
5	Within State Generations	
5	CO- GENERATION	2.61
	Vedanta Plant-1	1.33
	Goa Sponge and private limited	0.05
	Vedanta Plant-2	1.23
6	RPO Obligation	13.51
0	RFO Obligation	13.51
	Solar	
	NVVNL Solar	0.68
	SECI Solar	2.87
	Solar STOA Net Metering	6.09 0.66
	GTAM	0.00
		1
	Non-Solar	
	Non Solar - SECI Wind Tranche II LTOA	2.97
L	Non Solar - SECI Wind Tranche VI LTOA Hindustan waste treatment plant Goa	0.00
	Non Solar STOA	0.24
		0.00
7	REC Certificates	
	Solar-REC	
	Non Solar- REC	
0	III (Not Overdrevel)	00.00
9	UI (Net Overdrawal) Overdrawal	22.03
	Underdrawal	0.00
8	OTHER CHARGES	16.08

S. No	Source	rch
	PGCIL Transmission Charges, Wheeling, Oen Access & Trading Marrgin & Other Charges	16.08
10	Total Power Purchase	169.99

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

<u> </u>		1	1	1	ounna	r i	1	se from Own Statio	nə unu	other oour	003 101	Energy	Annual	1	1		1	Supplem		1
S. No	Source	Plant Capacity	Auxiliary Consumption	Plant Availability	PLF		ee's Firm hare	Energy Sent out (Scheduled)	Ex	ernal Losses	(%)	Received by the Licensee	Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	entary Charges	Total Cost	Per Unit Cost
	Central Generating Stations	MW	%	%	%	%	MW	MU	%	intrastate	interstate	MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/ur
	Thermal		-																	
	NTPC	21,913.59					596,14	1,970.25				1,899.50			210.72	502.32	17.83	43.67	774.53	4.
(i)		2100	i			10.25%	215.23	812.72			2.89%	789.26		153.79	55.28	124.99	11.34	31.55	223.16	2.8
(ii)	VSTPS - I	1260	)			3.14%		136.80			2.89%	132.85		161.52	12.00	22.10	1.48	2.47	38.05	2.
(iii)	VSTPS - II	1000	)			1.55%	15.49	55.03			2.89%	53.45		150.17	3.99	8.26	0.51	2.48	15.24	2.8
(iv)		1000				1.35%	13.49	48.47			2.89%	47.07		152.89	4.91	7.41		-0.11	12.60	2.6
(v)	VSTPS-IV	1000				1.60%		65.57			2.89%	63.68		152.71	8.74	10.01		2.05	21.70	
(vi)		500				1.52%	7.60	27.52			2.89%	26.73		158.70	4.37	4.37	0.22	-0.10	8.85	3.3
(vii)		656.2				1.89%					2.89%	-		-	3.96	-	-	3.43	7.39	
(viii)		657.39				1.93%	12.66	-			2.89%	-		-	4.35	-	-	0.40	4.74	
(ix)		1980				1.49%	29.58	87.22			2.89%	84.71		243.44	11.76	21.23		6.20	39.97	4.
(x)	KSTPS-VII	500				1.38%	6.92	20.48			2.89%	19.89		144.53	2.84	2.96	0.19	0.16	6.15	
(xi)	RSTPS	2100 1000				4.76%	100.00	340.14			6.97%	316.43 51.74		435.05	25.06	147.98		-2.37	170.67	5.
(xii) (xiii)		1000				1.33%		53.27			2.89%	41.55		245.59	4.95	13.08 22.05	0.77	-3.68	34.88	
(xiii) (xiv)		1600				1.39%	21.47	42.78			2.89%	70.36		515.45				0.28	47.93	6.
(XIV) (XV)	Gadarwara Lara	1600				0.94%	15.02	72.45			2.89%	52.71		428.03 278.06	15.74	31.01 15.09	0.51	0.67	24.66	4.
(XVI)	Khargone	1320				1.37%	18.13	35.22			2.89%	34.21		495.36	11.04	17.45		0.27	29.43	8.
(XVII)	Mouda I	1000		1		1.60%	16.04	52.78			2.89%	51.26		493.30	9.99	23.88	0.25	-1.30	32.57	6.
(XVIII)		1320		1		1.58%	20.88	65.51			2.89%	63.62		452.41	10.40	30.44		0.57	41.41	6.
(	Add/ Less: Other Adjustments		1				0					20.02			10.40	30.44	0.00	0.07		0.0
		1	1	1						1 1										
В	NPC	1	1	1						1 1										
	NPCIL							122.96				119.41			-	35.33	-	-	35.33	2.
(i)	KAPS		1			1		63.52			2.89%	61.69		230.47	-	14.64	-	-	14.64	2.
(ii)	TAPS							59.43			2.89%	57.72		348.09	-	20.69	-	-	20.69	3.
2	Banking of Power							-51.95	_			-50.45			0.00	0.06		0.00		
(i)								15.68			2.89%	15.22		4.00	-	0.06	-	-	0.06	0.
(ii)								67.63			2.89%	65.68		-	-	-	-	-		
(iii)																				
4	Short- Term Power																			
	Traders							-48.68				-48.68			0.00	25.10	0.00	0.00	25.10	
(1)	IEX Purchase & Sales							-90.03				-90.03			0.00	-22.18	0.00			2.4
	IEX Purchase							68.36			2.89%	66.39			0.00	51.35	0.00	0.00	51.35	
(111)	IEX Sales							158.39			2.89%	153.82			0.00	73.53	0.00		73.53	
	Traders Drawal							41.35			2.89%	40.16			0.00	47.28			47.28	
	Traders Injection					3.71%		0.00			2.89%	-			0.00	0.00	0.00	0.00	0.00	#DIV/0!
5	Within State Generations																			
	CO- GENERATION							46.56				46.56			0.00	10.14			10.14	
	Vedanta Plant-1					371%		25.23 19.59				25.23 19.59		240.36 236.75	0.00	5.94 0.42	0.00	0.00	5.94 0.42	2.
	Vedanta Plant-2 Goa Sponge and private limited					3.71%		19.59				19.59		230.75	0.00	3.78	0.00	0.00	3.78	21.8
	Goa Sporige and private infitted					3.7170		1.73				1.73		240.00	0.00	3.70	0.00	0.00	3.70	21.0
6	RPO Obligation							413.69				413.69			0.00	185.66	0.00	0.00	185.66	4.4
0	RFO Obligation							413.03				413.03			0.00	103.00	0.00	0.00	103.00	4.0
	Solar							148.28				145.24			0.00	73.66	0.00	0.00	73.66	5.
	NVVNL Solar		1			1		6.42				6.42		550.00	0.00	3.53	0.00	0.00	3.53	5.
	Solar STOA		1		1		1 1	105.33		1	2.89%	102.29		464.95	0.00	52.92	0.00	0.00	52.92	5.
	SECI Solar		1			1		23.64				23.64		550.00	0.00	13.00	0.00	0.00	13.00	5.
	Net Metering							12.89				12.89		287.00	0.00	4.20	0.00	0.00	4.20	
_	Non-Solar							265.42				260.49			0.00	112.01	0.00	0.00	112.01	4.
_	Non Solar - SECI Wind Tranche II LTOA				-			82.31	-			82.31	-	271.12	0.00	22.31	0.00	0.00	22.31	2.
_	STOA (Non Solar)				-			170.72	-		2.89%	165.79	-	471.48	0.00	86.21	0.00	0.00	86.21	5.
	SECI Tranche-VI		I					9.61				9.61		290.00	0.00	2.10	0.00	0.00	2.10	
L	Hindustan waste treatment plant Goa		I					2.77				2.77		500.00	0.00	1.38	0.00	0.00		
	SECI Hybrid (Non-Solar)		l																0.00	
-	PEO Ocalificator		I												0.00	0.00		0.00	0.00	
/	REC Certificates		l					0.00				0.00			U.00	U.00	0.00	U.00	U.00	
	Solar-REC																			
	Non Solar- REC		l														l			
	ui (ilia Constante)		l									40.00								-
a	UI (Net Overdrawal)							44.20 44.98			2.89%	42.93 43.69		0.00	0.00	38.93 39.09				
	OVER DRAWAL		+												0.00					
	UNDER DRAWAL							0.78			2.89%	0.76		0.00	U.UU	0.17	0.00	0.00	0.17	
8	OTHER CHARGES		+			-														-
~	PGCIL Transmission Charges, Wheeling, Oen		t																	
		1	1	1		1						1		1		145.25		1	145.25	
	Access & Trading Marrgin & Other Charges																			
	Access & Trading Marrgin & Other Charges Additional Power Purchased for HT Consumers		<u> </u>																33.34	
	Access & Trading Marrgin & Other Charges															33.34			33.34	
10	Access & Trading Marrgin & Other Charges Additional Power Purchased for HT Consumers	21913.59	0.00	0.00	0.00	0.00	596.14	2497.03	0.00	0.00	0.00	2413.79			210.72	33.34	17.83		33.34 1181.66	4.

Note: The above information is to be supplied for (n-3), (n-2), (n-1), current year (n) and years of the control period. Note: Details of prior period adjustments if any shall be provided separately

S. No	Source	Plant Capacity	Auxiliary Consumption	Plant Availability	PLF	Licensee's Firm Share	Energy Sent out (Scheduled)	Ex	ernal Loss	es(%)	Energy Received by the Licensee	Annual Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other	Supplem entary Charges	Total Cost	Per Unit Cost
		MW	%	%	%	% MW	MU	%	intrastate	interstate	MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit

Months	Source	Opening	Import	Export	Net	Closing Balance
Months	Source	MW	MW	MW	MW	MW
Apr	1					
·	2					
	3					
May	1					
	2					
	3					
Jun	1					
	2					
	3					
Jul	1					
	2					
	3					
Aug	1					
	2					
	3					
Sep	1					
Jeb	2					
	3					
Oct	1					
001	2					
	3					
Nov	1					
	2					
	3					
Dec	1					
500	2					
	3					
Jan	1					
oun	2					
	3					
Feb	1					
	2		1			
	3		1			
March	1		1			
	2		1			
	3		1			

Note: The above information is to be supplied for (n-3), (n-2), (n-1), current year (n) and years of the control period.

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

		Plant	Auxiliary	Plant	PLF	License	e's Firm	Energy Sent out		ernal Loss		Energy	Annual Fixed Cost	Variable	Fixed	Variable	Other	Supplem entary	Total	Per Unit
S. No	Source	Capacity MW	Consumption %	Availability %	PLF	Sł %	mare MW	(Scheduled) MU	Ext %	intrastate	es(%)	Received by the Licensee MU	Fixed Cost (AFC) ₹ crore	Charges paise/unit	Cost (FC)	Cost (VC) ₹ crore	Charges ₹ crore	entary Charges ₹ crore	Cost ₹ crore	Cost
	Central Generating Stations	IVIVV	76	76	70	70	IVIVV	WO	76	Intrastate	Interstate	WIO	4 CIDIO	paise/unit	< CLOIA	4 CI 018	4 CI 018	¢ CIOIO	< CI018	paise/unit
	Thermal																			
at	NTPC	21,913.59					596.14	1,604.64				1,534.66			210.72	372.41	-		583.12	3.80
(i)	KSTPS	2100				10.25%	215.23	732.33			3.55%	706.34		145.52	55.28	106.57			161.85	
	VSTPS - I	1260				3.14%	39.60	110.65			3.55%	106.72		163.18	12.00	18.06			30.06	2.82
	VSTPS - II	1000				1.55% 1.35%	15.49 13.49	32.84			3.55% 3.55%	31.67 23.88		157.18	3.99	5.16			9.15 8.77	2.89
	VSTPS -III	1000				1.35%	13.49	24.76			3.55%	23.88		155.90 153.87	4.91 8.74	3.86			8.77	
	VSTPS-IV VSTPS-V	500				1.52%	7.60	9.26			3.55%	8.93		153.87	4.37	1.47			5.84	
(vii)	KGPP	656.20				1.89%	12.40	5.20			3.55%	-		- 130.75	3.96	1.47			3.96	#DIV/0!
(viii)	GGPP	657.39				1.93%	12.66	-			3.55%	-		-	4.35	-			4.35	
	SIPAT- I	1980				1.49%	29.58	61.39			3.55%	59.21		149.48	11.76	9.18			20.93	3.54
	KSTPS-VII	500				1.38%	6.92	12.96			3.55%	12.50		142.31	2.84	1.84			4.69	
(xi)	RSTPS	2100				4.76%	100.00	380.91			6.97%	354.37		342.40	25.06	130.42			155.48	4.39
(xii)	SIPAT- II	1000				1.33%	13.32	21.03			3.55%	20.29		154.40	4.95	3.25			8.20	4.04
(xiii)	Solapur	1320				1.63%	21.47	63.12			3.55%	60.88		507.61	12.55	32.04			44.59	
(xiv)	Gadarwara	1600 1600				1.39%	22.29 15.02	29.66			3.55% 3.55%	28.61		363.80	15.74	10.79			26.53 8.78	9.27 #DIV/0!
(xv) (xvi)	Lara Khargone	1320				1.37%	18.13	47.24			3.55%	45.56		428.00	8.78 11.04	20.22			31.26	6.86
(XVII)	Mouda I	1000				1.60%	16.04	25.82			3.55%	24.90		428.00	9.99	11.17			21.17	8.50
(XVII) (XVIII)	Mouda I	1320				1.58%	20.88	36.25			3.55%	34.96	1	432.82	10.40	15.85			26.25	7.51
	Add/ Less: Other Adjustments						0	30.23			0.0070	27.00		-37.20	10.40	10.05			20.20	
		i										İ	i							1
BN	NPC																			
۱a	NPCIL							65.81				63.48			-	13.31	-	•	13.31	2.10
	KAPS				-	-		29.11	-		3.55%	28.08		171.20	-	4.98			4.98	1.78
(ii) T	TAPS							36.70			3.55%	35.40		226.96	-	8.33			8.33	2.35
	Banking of Power							48.33			3.55%	46.61				0.23			0.23	
(i)								48.33			3.55%	46.61		4.78		0.23			0.23	0.05
(ii) (iii)												-		-		-				
(11)																				
( I	Short- Term Power																			
	Fraders							348.84				336.45			0.00	135.73	0.00	0.00	135.73	
	EX Purchase & Sales							348.84				336.45			0.00	135.73	0.00		135.73	4.03
	EX Purchase							348.84			3.55%	336.45				135.73			135.73	
(iii) I	EX Sales							0.00				-				0.00			0.00	
7	Traders Drawal							0.00				-				0.00			0.00	#DIV/0!
Ŧ	Traders Injection							0.00				-				0.00			0.00	#DIV/0!
, Y	Within State Generations																			
	CO- GENERATION							92.57				92.57			0.00	22.22	0.00	0.00	22.22	
	/edanta Plant-1							50.45				50.45		240.36		12.11			12.11	2.40
	Vedanta Plant-2 Soa Sponge and private limited							39.19 2.93				39.19 2.93		236.75 240.00		9.41 0.70			9.41 0.70	2.40 2.40
	Soa Sponge and private limited							2.93				2.93		240.00		0.70			0.70	2.40
	RPO Obligation							340.97				340.97			0.00	148.67	0.00	0.00	148.67	4.36
	Cro Obligation							340.31				540.37			0.00	140.07	0.00	0.00	140.07	4.50
	Solar							166.15				166.15			0.00	82.27	0.00	0.00	82.27	4.95
	NVVNL Solar							6.63				6.63		550.00		3.65			3.65	5.50
ç,	Solar STOA							110.98			3.55%	110.98		464.95		55.76			55.76	
	SECI Solar							31.42				31.42		550.00		17.28			17.28	5.50
1	Net Metering	1						17.11				17.11		287.00		5.58			5.58	3.26
														L						0.00
	Non-Solar							174.82 59.87				174.82 59.87		271.12	0.00	66.40	0.00	0.00	66.40	3.80
	Non Solar - SECI Wind Tranche II LTOA STOA (Non Solar)							59.87			3.55%	59.87		2/1.12 471.48		16.22 37.06			16.22 37.06	
	STOA (Non Solar) SECI Tranche-VI							36.34			3.00%	36.34		4/1.48 290.00		10.50			37.06	5.05
	Hindustan waste treatment plant Goa							5.23				30.34		290.00		2.62			2.62	5.00
	SECI Hybrid (Non-Solar)	1			1	1		0.20				0.20	1	000.00		2.02			0.00	0.00
		i										İ	i							
	REC Certificates							0.00				0.00			0.00	0.00	0.00	0.00	0.00	
	Solar-REC																			
1	Non Solar- REC										-			1						
	UI (Net Overdrawal)				-	-		0.00	-			0.00			0.00	0.00	0.00	0.00	0.00	#DIV/0!
	OVER DRAWAL	1						0.00				0.00		0.00		0.00			0.00	
ι	JNDER DRAWAL	I						0.00				0.00		0.00		0.00			0.00	
		1																		L
	OTHER CHARGES																			<u> </u>
F	PGCIL Transmission Charges, Wheeling, Oen Access & Trading Marrgin & Other Charges															145.25			145.25	
	Fotal Power Purchase	21913.59	0.00 n-1), current yea			0.00	596.14	2501.16	0.00	0.00	0.00	2414.75		1	210.72	837.82	0.00	0.00	1048.53	4.34

Note: The above information is to be supplied for (n-3), (n-2), (n-1), current year (n) and years of the control period. Note: Details of prior period adjustments if any shall be provided separately

S. No	Source	Plant Capacity	Auxiliary Consumption	Plant Availability	PLF	Licensee's Firm Share	Energy Sent out (Scheduled)	Ex	ernal Loss	es(%)	Energy Received by the Licensee	Annual Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other	Supplem entary Charges	Total Cost	Per Unit Cost
		MW	%	%	%	% MW	MU	%	intrastate	interstate	MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit

Months	Source	Opening	Import	Export	Net	Closing Balance
Months	Source	MW	MW	MW	MW	MW
Apr	1					
·	2					
	3					
May	1					
	2					
	3					
Jun	1					
	2					
	3					
Jul	1					
	2					
	3					
Aug	1					
	2					
	3					
Sep	1					
Jeb	2					
	3					
Oct	1					
001	2					
	3					
Nov	1					
	2					
	3					
Dec	1					
500	2					
	3					
Jan	1					
oun	2					
	3					
Feb	1					
	2		1			
	3		1			
March	1		1			
	2		1			
	3		1			

Note: The above information is to be supplied for (n-3), (n-2), (n-1), current year (n) and years of the control period.

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

				Summa	y OI FOW			Own Stations and C	Juliel 30u		022-23						
S. No	Source	Plant Capacity	Auxiliary Consumption		PLF	Sł	e's Firm are	Energy Sent out (Scheduled)	External Losses(%)	Energy Received by the Licensee	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Supplem entary Charges	Total Cost	Per Unit Cost
	Central Generating Stations	MW	%	%	%	%	MW	MU	interstate	MU	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit
1	Thermal																
a	NTPC							3,574.89		3,423.36		421.43	874.73	17.83	43.67	1,357.66	3.97
(i)	KSTPS							1,545.04	3.55%	1,490.21	149.87	110.57	231.56	11.34	31.55	385.02	2.58
	VSTPS - I							247.45	3.55%	238.67	162.26	24.01	40.15	1.48	2.47	68.11	2.85
(iii)	VSTPS - II							87.87	3.55%	84.75	152.79	7.97	13.43	0.51	2.48	24.39	2.88
(iv)	VSTPS -III							73.23	3.55%	70.63	153.91	9.83	11.27	0.38	-0.11	21.37	3.03
(V)	VSTPS-IV							82.01	3.55% 3.55%	79.10 35.47	152.94	17.49	12.54	0.90	2.05	32.97 14.69	4.17
(vi) (vii)	VSTPS-V KGPP							36.78	3.55%	33.47	158.73	8.74	5.84	0.22	-0.10 3.43	14.09	0.00
(viii)	GGPP								3.55%	-	-	8.69	-		0.40	9.09	0.00
(ix)	SIPAT- I							148.61	3.55%	143.34	204.63	23.51	30.41	0.78	6.20	60.90	4.25
(X)	KSTPS-VII							33.44	3.55%	32.25	143.67	5.69	4.80	0.19	0.16	10.84	3.36
(xi)	RSTPS							721.05	6.97%	670.80	386.10	50.12	278.40	-	-2.37	326.15 23.32	4.86
(xii)	SIPAT- II							74.31	3.55% 3.55%	71.67	219.78 510.77	9.90	16.33	0.77	-3.68	23.32 79.47	3.25
(XIII) (Xiv)	Solapur Gadarwara							105.90 102.11	3.55%	102.14 98.49	409.37	25.10 31.48	54.09 41.80	0.51	0.28	79.47	7.78
(XV)	Lara							54.28	3.55%	52.35	278.06	17.55	15.09	0.51	0.87	33.44	6.39
(XVi)	Khargone							82.46	3.55%	79.53	456.77	22.08	37.67	0.25	0.69	60.68	7.63
(xvii)	Mouda I							78.60	3.55%	75.81	445.97	19.98	35.05	-	-1.30	53.74	7.09
(xviii)	Mouda II							101.76	3.55%	98.15	454.90	20.80	46.29	-0.00	0.57	67.66	6.89
	Add/ Less: Other Adjustments																1
	NDO		-														
	NPC NPCIL		1					188.77		182.07		-	48.64		_	48.64	2.67
a (i)								92.63	3.55%	182.07	211.85		48.64	-	-	48.64	2.67
	TAPS		1					92.63	3.55%	92.73	301.85	-	29.02			29.02	3.13
(*)			1								301.03	-					
2	Banking of Power							-3.63		-3.50			0.29			0.29	-0.84
(i)	Drawal				-	-	-	64.00	3.55%	61.73	4.59		0.29			0.29	0.05
(ii)	Injection							67.63	3.55%	65.23	-		-				
	Short- Term Power																I
4	Traders							300.16		300.16		0.00	160.82	0.00	0.00	160.82	I
(1)	IEX Purchase & Sales							258.81		258.81		0.00	113.55	0.00	0.00	113.55	4.39
(i)	IEX Purchase & Sales							417.20		402.39		0.00	187.08	0.00	0.00	187.08	4.55
ait	IEX Sales							158.39		152.77			73.53			73.53	
	Traders Drawal							41.35		39.88			47.28			47.28	11.85
	Traders Injection							0.00		-			0.00			0.00	#DIV/0!
5	Within State Generations																1
	CO- GENERATION							139.13		134.19		0.00	32.35	0.00	0.00	32.35	2.41
	Vedanta Plant-1							75.68	3.55%	73.00	240.36		18.05			18.05	2.47
	Vedanta Plant-2 Goa Sponge and private limited							58.78 4.66	3.55% 3.55%	56.70 4.50	236.75 240.00		13.19 1.12			13.19 1.12	2.33 2.49
	Goa Sponge and private infilted							4.00	3.00%	4.50	240.00		1.12			1.12	2.49
6	RPO Obligation							754.67		754.67		0.00	334.33	0.00	0.00	334.33	4.43
-																	
	Solar							314.43		306.75		0.00	155.93	0.00	0.00	155.93	5.08
	NVVNL Solar							13.05		13.05	550.00		7.18			7.18	5.50
	Solar STOA							216.31		208.63	464.95		108.68			108.68	5.21
	SECI Solar							55.06 30.00		55.06 30.00	550.00 287.00		30.29 9.78			30.29 9.78	5.50 3.26
	Net Metering							30.00		30.00	207.00		9.70			9.70	3.20
	Non-Solar		1					440.24	1	431.58		0.00	178.41	0.00	0.00	178.41	4.13
	Non Solar - SECI Wind Tranche II		1					142.18		142.18	271.12		38.53		2.00	38.53	2.71
	STOA (Non Solar)							244.11		235.44	471.48		123.27			123.27	5.24
	SECI Tranche-VI					-	-	45.95		45.95	290.00		12.60	-	-	12.60	
	Hindustan waste treatment plant		-					8.00		8.00	500.00		4.00			4.00	5.00
	SECI Hybrid (Non-Solar)		1													0.00	
7	REC Certificates		1					0.00		0.00		0.00	0.00	0.00	0.00	0.00	<u> </u>
	Solar-REC		1					0.00		3.00		0.00	0.00	0.00	0.00	0.00	
	Non Solar- REC		1						1								
			1							1							
9	UI (Net Overdrawal)		1					44.20		42.63		0.00	38.93	0.00	0.00	38.93	9.13
	OVER DRAWAL							44.98	3.55%	43.39	0.00		39.09			39.09	
	UNDER DRAWAL							0.78	3.55%	0.75	0.00		0.17			0.17	
			1														
8	OTHER CHARGES																
	PGCIL Transmission Charges,																1
	Wheeling, Oen Access & Trading												290.50			290.50	1
	Marrgin & Other Charges	1	1						1	1		1					
	-		1														
	Revenue recovered from HT																
	Consumer for dedicated Power		1													33.34	1
10	Purchase		1										33.34				1
11	Total Power Purchase	0.00	0.00	0.00	0.00	0.00	0.00	4998.19	0.00	4833.58		421.43	1747.26	17.83	43.67	2230.19	4.61
_	Note: The above information is to																
	Note: Details of prior period																
	adjustments if any shall be																
	provided separately																

S. No	Source	Plant Capacity	Auxiliary Consumption	Plant Availability	PLF		ee's Firm are		External Losses(%)		Variable Charges		Variable Cost (VC)	Other Charges	Supplem entary Charges	I otal	Per Unit Cost
		MW	%	%	%	%	MW	MU	interstate	MU	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit

Months	Source	Opening	Import	Export	Net	Closing Balanc
Months	Source	MW	MW	MW	MW	ŇW
Apr	1					
	2					
	3					
May	1					
	2					
	3					
Jun	1					
	2					
	3					
Jul	1					
	2					
	3					
Aug	1					
	2					
	3					
Sep	1					
	2					
	3					
Oct	1					
	2					
	3					
Nov	1					
	2					
	3					
Dec	1					
	2				_	
	3				_	
Jan	1				_	
-	2	-				
	3					
Feb	1				_	
	2				_	
	3				_	
March	1	-				
	2				_	
	3					
Total			1			

Note: The above information is to

# Summary of Station Wise details of Power Purchase from Own and Other Sources

													ontho in /	. EV 2022	22									
S. No	Source	Ap	oril	Ma	av	Ju	ine	Ju	ılv	Aug	ust	Septe	onths in the		-23 ober	Nove	mber	Dece	mber	Jan	uary	Febr	uarv	Ма
			(₹ crore)		(₹ crore)	MU	(₹ crore)		(₹ crore)	0	(₹ crore)	MU	(₹ crore)	MU	(₹ crore)		(₹ crore)	MU	(₹ crore)		(₹ crore)		(₹ crore)	MU
1	Central Generating Stations																							
A	Thermal NTPC	330.26	143.11	330.65	116.19	331.68	127.07	330.08	133.62	315.80	125.76	331.77	128.78											
	KSTPS	143.71		139.36	30.41	138.12	34.01	132.78	34.96	120.69	30.19	138.06	31.23											
(ii)	KSTPS-3	4.62	1.18	3.18	0.94	0.00	0.15	3.19	0.95	4.82	1.53	4.67	1.42											
(iii)	VSTPS-1	23.47	6.32	21.75	6.00	24.54	7.16	23.85	6.40	20.81	5.93	22.38	6.22											
	VSTPS-2	10.21	2.19	9.97	2.81	10.33	4.07	10.63	2.52	8.73	2.21	5.15	1.45											
	VSTPS-3 VSTPS-4	8.91 10.64	2.11 2.97	9.23 11.00	2.36 5.50	4.83 10.83	1.54 3.45	7.07	1.79 3.23	9.33 11.13	2.46 3.31	9.10 10.83	2.33											
	MSTPS-1	7.51	4.59	6.72	7.07	7.40		10.52	6.35	10.21	6.12	10.00	3.20											
(viii)	KGPS	0.00	3.82	0.00	0.71	0.00	0.39	0.00	0.71	0.00	0.76	0.00	1.00											
(ix)	JGPS	0.00	0.43	0.00	1.57	0.00		0.00	0.93	0.00	0.90	0.00	0.61											
(X)	SIPAT-1 SIPAT-2	6.29 8.68	8.14 2.23	10.77 9.18	3.50 2.04	12.80 8.99		16.81 8.48	6.91 3.45	20.68 9.06	8.58 3.63	19.88 8.88	9.12 3.94											
	VSTPS-5	2.11	0.59	5.16	1.60	5.07			1.57	5.24	1.68	5.08	1.58											
(xiii)	MST-2	10.69	6.02	9.79	6.23	11.36	7.23	12.55	8.11	9.03	5.81	12.09	8.02											
(xiv)	SLP	11.86	7.93	7.57	5.98	6.33	5.46		4.52	6.72	5.83	5.27	5.17											
(xv)	KhSTPS-2 Gadarwara	0.00	0.00 6.66	0.00	0.00	0.00 12.55	0.00 8.57	0.00	0.00 9.00	0.00 11.91	0.00 8.09	0.00	0.00 8.18											
(xvi) (xvii)		7.97	3.01	9.53	3.44	9.40	4.21	12.74	9.00	9.65	4.33	11.66 7.67	4.81											
(xviii)	RST	56.32	19.46	56.54	22.58	59.96	32.93	55.43	31.83	54.84	30.58	57.05	33.28											
(xix)	Khargone	5.43	3.10	9.14	6.02	9.18	6.97	4.92	5.53	2.95	3.84	3.60	3.98											
В	NPC		L																					
	NPCIL	20.61	5.78	21.23	5.96	19.28	6.14	19.96	5.66	21.34	6.01	20.55	5.78											
	KAPS	10.65	2.40	10.93	2.46	9.27	2.34	11.07	2.55	11.03	2.49	10.58	2.39											
(ii)	TAPS	9.97	3.38	10.30	3.50	10.01	3.80	8.89	3.11	10.31	3.51	9.97	3.39											
2	Dealing of Down	0.00	0.00	0.00	0.00	2.70	0.00	45.04	0.00	45.05	0.05	10.54	0.00											
	Banking of Power Drawal	0.00	0.00	0.00	0.00	-3.78		-15.81	0.00	-15.85 11.36	0.05 0.05	-16.51 4.32	0.02											
	Injection	0.00	0.00	0.00	0.00	3.78		15.81	0.00	27.21	0.00	20.83	0.02											
(iii)																								
_																								
4	Short- Term Power	44.00	44.47	0.40	0.40	00.04	44.04	05.05	0.00	7.05	0.00	04.00	40.00											
(1)	IEX Purchase and Sales IEX Purchase	11.30 19.94	11.17 17.24	-3.49 18.49	3.10 12.63	-33.04 4.52	-14.84 3.91	-25.85	-9.09 4.29	-7.05 15.01	0.88 9.95	-31.89 3.83	-13.39											
-	IEX Sales	8.64	6.07	21.98	9.53	37.56	18.75	32.43	13.38	22.06	9.95	35.72	16.72											
(ii)	Traders (Drawal)	5.29	6.36	30.58	35.27	5.48			0.00	0.00	0.00	0.00	0.00											
(11)	Traders (Injection)	5.25	0.50	30.30	33.27	5.40	5.04	0.00	0.00	0.00	0.00	0.00	0.00											
5	Within State Generations																							
	CO- GENERATION	10.23	2.35		2.43	12.42			-0.72	1.95	0.33	11.59	2.76											
	Vedanta Plant-1 Goa Sponge and private limited	6.62 0.03	1.59 0.01	5.68 0.07	1.37	6.72 0.40		0.28	0.07	1.62 0.44	0.26	4.30 0.36	1.04											
-	Vedanta Plant-2	3.59	0.75	4.71	1.05	5.30	1.27	-0.83	-0.89	-0.10	-0.03	6.93	1.64											
6	RPO Obligation	52.03	23.39	69.61	30.54	67.24		75.45	34.49	80.83	36.30	68.54	30.76											
	NVVNL Solar SECI Solar	1.19 4.85	0.66	1.22 4.80	0.67 2.64	1.11 4.15	0.61 2.29	1.04 2.94	0.57	0.93	0.51 1.70	0.93	0.51											
	Solar STOA	5.82	2.89	16.47	8.27	18.82	9.48	2.94	11.16	22.55	11.33	19.51	9.79											
	Short Term Tender DEEP portal - Solar Power	2.02								50														
										10.53														_
	Non Solar - SECI Wind Tranche II LTOA Non Solar - SECI Wind Tranche VI LTOA	11.44	3.10 0.00	18.99 0.00	5.15 0.00	15.52	4.21	14.90	4.04	12.72 4.43	3.45 0.97	8.75 5.18	2.37		├			L			├			
-	Hindustan waste treatment plant Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.43	0.97	0.46	0.23											
	Non Solar STOA	25.89	13.08	25.44	12.85	25.13	12.69	32.48	16.40	34.44	17.39	27.34	13.81											
	Net Metering	2.41	0.79	2.22	0.72	2.00	0.65	1.51	0.49	2.19	0.72	2.55	0.83											
7	PEC Cortificatos		L																					
/	REC Certificates Solar-REC											70.00	7.00											
	Non Solar- REC											70.00	1.00											
			1																					
9	UI (Net Overdrawal)	19.12	22.04	6.66	4.74	4.50		8.85	5.32	3.02	1.83	2.04	1.40											
	Over Drawal	19.12	22.04	7.14	4.82	4.50		8.85	5.32	3.02	1.83	2.34	1.48											
	Under Drawal	0.00	0.00	0.47	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.08		├			L			├			
8	OTHER CHARGES		22.79		20.47		20.16		43.06		19.92		18.85											
									.0.00		10.01													
	PGCIL Transmission Charges, Wheeling, Oen																							
	Access & Trading Marrgin & Other Charges		22.79		20.47		20.16		43.06		19.92		18.85											
							1								1						1			

Summary of Station Wise details of Power Purchase from Own and Other Sources

C No.	Course									Months in the FY 2022-23														
S. No	Source	Ар	ril	Ма	ay	Jur	ne	Ju	ly	Aug	just	Septer	nber	Octo	ober	Nover	nber	Dece	mber	Jani	uary	Febru	ary	Mai
	Additional Power Purchase Cost recovered from		7.01		20.2		6.13																	
10	Total Power Purchase	448.84	229.98	465.70	198.49	403.79	174.81	392.58	212.34	400.04	191.08	386.08	174.96			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Form F4

Form F4

S. No	Source	rch
		(₹ crore)
1	Central Generating Stations	(* *****)
A	Thermal	
a (i)	NTPC KSTPS	
(ii)	KSTPS-3	1
(iii)	VSTPS-1	
(iv)	VSTPS-2	
(v)	VSTPS-3 VSTPS-4	
(vi) (vii)	MSTPS-1	-
(viii)	KGPS	1
(ix)	JGPS	
(x)	SIPAT-1	
(XI) (XII)	SIPAT-2 VSTPS-5	
(viii)	MST 2	1
(xiv)	SLP	
(xv)	KhSTPS-2	
(XVI) (XVII)	KISTPS-2 Gadarwara Lara RST	
(xviii)	RST	-
(xix)	Khargone	
	NPC NPCIL	+
	KAPS	
	TAPS	
-		
2	Banking of Power	-
	Drawal Injection	-
(iii)	njouon	
4	Short- Term Power	-
(i)	IEX Purchase and Sales	
	IEX Purchase	
(1)	IEX Sales	
(ii)	Traders (Drawal) Traders (Injection)	
	Traders (injection)	-
5	Within State Generations	
	CO- GENERATION	
	Vedanta Plant-1 Goa Sponge and private limited	
	Vedanta Plant-2	
		1
6	RPO Obligation	
	NVVNL Solar SECI Solar	
<u> </u>	Solar STOA	
	Short Term Tender DEEP portal - Solar Power	<u> </u>
L	Non Solar - SECI Wind Tranche II LTOA Non Solar - SECI Wind Tranche VI LTOA	
	Hindustan waste treatment plant Goa	-
	Non Solar STOA	<u> </u>
	Net Metering	
7	REC Certificates	
,	Solar-REC	-
	Non Solar- REC	1
9	UI (Net Overdrawal)	
	Over Drawal Under Drawal	
<u> </u>	ender Brandi	1
8	OTHER CHARGES	
	PGCIL Transmission Charges, Wheeling, Oen Access & Trading Marrgin & Other Charges	
	Access & mading marrgin & Other Charges	+
		1

o N.	0	
S. No	Source	rch
	Additional Power Purchase Cost recovered from	
10	Total Power Purchase	0.00

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

. No	Source	Plant Capacity	Auxiliary Consumption	Plant Availability	PLF	Licensee's Firm Share	Energy Sent out (Scheduled)		Losses(%)	Energy Received by the Licensee	(AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Supplem entary Charges	Total Cost	Per Ur Cost
Central Gene	rating Stations	MW	%	%	%	% MW	MU	% intras	tate interstate	MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/u
A Thermal																-		-
a NTPC							3,943.93			3,779.31			421.43	876.38	-		1,297.81	1
<li>(i) KSTPS</li>							1,628.48		3.55%	1,570.69		145.52	110.57	236.98			347.54	
<li>(ii) VSTPS - I</li>							272.46		3.55%	262.79		163.18	24.01	44.46		1	68.47	7
(iii) VSTPS - II							105.44		3.55%	101.70		157.18	7.97				24.55	5
(iv) VSTPS -III							95.85		3.55%	92.45		155.90	9.83	14.94			24.77	7
(v) VSTPS-IV							117.22		3.55%	113.06		153.87	17.49	18.04			35.52	2
(vi) VSTPS-V							53.07		3.55%	51.19		158.79	8.74	8.43		1	17.16	
(vii) KGPP							1.85		3.55%	1.79		-	7.92	-			7.92	2 4
viii) GGPP							4.46		3.55%	4.30		-	8.69	-		1	8.69	
(ix) SIPAT-1							185.06		3.55%	178.49		149.48	23.51				51.18	3
(x) KSTPS-VII							55.01		3.55%	53.06		142.31	5.69	7.83			13.52	2
(xi) RSTPS							721.05		6.97%			342.40	50.12				297.01	
(xii) SIPAT- II							104.53		3.55%	100.82		154.40	9.90	16.14			26.04	4
(xiii) Solapur							105.90		3.55%	102.14		507.61	25.10				78.85	5
(xiv) Gadarwara							113.07		3.55%	109.06		363.80	31.48				72.62	2
(xv) Lara							100.49		3.55%	96.93		222.56	17.55				39.92	2
(xvi) Khargone							90.98		3.55%	87.75		428.00	22.08	38.94			61.02	
xvii) Mouda I							87.25		3.55%	84.15		432.82	19.98				57.75	5
xviii) Mouda II		1					101.76		3.55%	98.15		437.20	20.80				65.29	
	Other Adjustments	1					101.70		0.00 /	a0.13		457.20	20.00	44.49	1		00.20	1
Aug L055. C		1					1			1					1			+
B NPC		1					+									<u> </u>		+
a NPCIL		1					225.55			217.55				44.73			44.73	<del>.1</del>
(i) KAPS		1					115.94		3.55%	217.55		171.20	-	44.73			44.73	
(ii) TAPS		1							3.55%				-				24.88	á
(II) TAPS							109.62		3.55%	105.73		226.96		24.88		<u> </u>	24.88	4
Deathing 12																0.77		-
Banking of Po	ower						-7.32			-7.32			0.00	0.35	0.00	0.00	0.35	5
(i) Drawal							73.20			73.20		4.78	-	0.35		<u> </u>	0.35	
(ii) Injection							80.52			80.52		-	-	0.00	-	-	0.00	J
																1		
																1		
Short- Term F	Power															1		
Traders							0.00			0.00			0.00	0.00	0.00	0.00	0.00	3
(I) IEX Purchase	& Sales						0.00			0.00			0.00	0.00	0.00	0.00	0.00	5
(il) IEX Purchase							0.00		3.55%			-	0.00				0.00	
(iii) IEX Sales							0.00		3.55%	-		-	0.00	0.00				5
Traders Drawa							0.00		3.55%	-			0.00	0.00				
Traders Injecti							0.00		3.55%	-		_	0.00					
Traders injecti	UII						0.00		3.33%	-		-	0.00	0.00	0.00	0.00	0.00	/
Within State	Concretions															<u> </u>		-
CO- GENERA							154.13			154.13			0.00	36.99	0.00	0.00	36.99	-
Vedanta Plant-							80.68			80.68		240.00	0.00	19.36			19.36	
Vedanta Plant-	-2						68.78			68.78		240.00	0.00		0.00	0.00	16.51	
Goa Sponge a	nd private limited						4.66			4.66		240.00	0.00	1.12	0.00	0.00	1.12	2
																1		
RPO Obligatio	on						836.27			820.78			0.00	343.56	0.00	0.00	343.56	ذ
																1		
Solar		1		-			331.41			323.45			0.00	162.65				
NVVNL Solar							12.79			12.79		550.00	0.00					
Solar STOA							224.16		3.55%	216.20		502.44	0.00	112.62				
SECI Solar							54.46			54.46		550.00	0.00	29.95	0.00	0.00	29.95	5
Net Metering		1					40.00			40.00		326.00	0.00	13.04	0.00	0.00	13.04	4
															1			1
Non-Solar							504.86	1		497.32	1		0.00	180.91	0.00	0.00	180.91	1
Non Solar SE	ECI Wind Tranche II LTOA	1					142.18			142.18		271.00	0.00	38.53				
STOA (Non Sc		1					212.50		3.55%			505.00	0.00	107.31			107.31	
SECI Tranche	VI	1					142.18		0.007	142.18	1	218.50	0.00	31.07			31.07	
	ste treatment plant Goa	1					8.00			8.00		500.00	0.00	4.00		0.00		
Cinculater I Web	as a souriont plant Goa	1					0.00			0.00		300.00	0.00	-1.00	0.00	5.00	0.00	
-		1					+						1		1	'	0.00	4
REC Certifica	toe	1					0.00			0.00			0.00	0.00	0.00	0.00	0.00	<u>a</u>
	1105	1					0.00			0.00			U.00	0.00	0.00	U.00	0.00	4
Solar-REC	a						+								I	<u> </u>		+
Non Solar- RE	C	1					1			l			l		1	<u> </u>		4
		1								1		1				L		1
UI (Net Overd							0.00			0.00			0.00	0.00	0.00	0.00	0.00	1
OVER DRAW	AL						0.00			-		-	0.00	0.00				
UNDER DRAV	VAL						0.00			-		-	0.00	0.00	0.00	0.00	0.00	J
																		T
OTHER CHAR	IGES															(		T
	nission Charges, Wheeling, Oen	1											1		1			1
	ling Marrgin & Other Charges	1	1				1			1	1	1	1	290.50	1	1	290.50	J
Access & Irad	ing mangin a Outer Charges						+								I	<u> </u>		+
1		0.00				0.00 0.0	5152.57	0.00	0.00 0.00	4964.44				1592.51	0.00			-
Total Power F			0.00	0.00	0.00								421.43				2013.94	

S. No	Source		Auxiliary Consumption	Plant Availability	PLF		hare	Energy Sent out (Scheduled)	E	xternal Loss	es(%)	Energy Received by the Licensee	Annual Fixed Cost (AFC)	Variable Charges	Fixed Cost (FC)	Variable Cost (VC)	Other Charges	Supplem entary Charges	Total Cost	Per Unit Cost
		MW	%	%	%	%	MW	MU	%	intrastate	interstate	MU	₹ crore	paise/unit	₹ crore	₹ crore	₹ crore	₹ crore	₹ crore	paise/unit

Months	Source	Opening	Import	Export	Net	
Months	Source	MW	MW	MW	MW	
Apr	1					
	2					
	3					
Мау	1					
	2					
	3					
Jun	1					
	2					
	3					
Jul	1					
	2					
	3					
Aug	1					
	2					
	3					
Sep	1					
	2					
	3					
Oct	1					
	2					
	3					
Nov	1					
	2					
	3					
Dec	1					
	2					
	3					
Jan	1					
	2					
	3					
Feb	1					
	2					
	3					
March	1					
	2					
	3					

Note: The above information is to be supplied for (n-3), (n-2), (n-1), current year (n) and years of the control period.

Sr. No.	Source	Capacity (MW)	Firm allo Licer		Avail. / PLF (in %) (PLF Considere	Gross Generation
			%	MW	d for FY 2022-23)	
1	2	4	5	5	7	8
Α	Central Sector Power Stations					
I	NTPC	21,914		492.28		
1	KSTPS	2,100	10.00%	210.00	90.00%	16556.40
2	VSTPS - I	1,260	2.78%	35.00	88.69%	9789.25
3	VSTPS - II	1,000	1.20%	12.00	88.69%	7769.24
4	VSTPS -III	1,000	1.00%	10.00	88.69%	7769.24
5	VSTPS-IV	1,000	1.12%	11.20	88.69%	7769.24
6	VSTPS-V	500	1.04%	5.18	86.00%	3766.80
7	KGPP	656	0.00%	-	40.00%	2299.32
8	GGPP	657	0.00%	-	42.00%	2418.67
9	SIPAT- I	1,980	1.01%	20.00	90.00%	15610.32
10	KSTPS-VII	500	0.90%	4.50	90.00%	3942.00
11	RSTPS	2,100	4.76%	100.00	87.33%	16065.78
12	SIPAT- II	1,000	1.00%	10.00	90.00%	7884.00
13	Solapur	1,320	1.14%	15.09	85.00%	9828.72
14	Gadarwara	1,600	0.91%	14.55	85.00%	11913.60
15	Lara	1,600	0.46%	7.31	85.00%	11913.60
16	Khargone	1,320	0.89%	11.75	85.00%	9828.72
17	Mouda I	1,000	1.12%	11.20	85.00%	7446.00
18	Mouda II	1,320	1.10%	14.50	85.00%	9828.72
	Add/ Less: Other Adjustments					
111	NPCIL	1,520		31		
	KAPS	440	3.69%	16.23	72.00%	2775.17
	TAPS	1,080	1.40%	15.16	80.00%	7568.64
IV	Traders a)IEX PURCHASEAND SALES			-		
	a)IEX PURCHASE					
	a)IEX SALES					

	b) Traders Drawal				
	Traders Injection				
V	OVER/ UNDER DRAWAL				
•	OVER DRAWAL				
	UNDER DRAWAL				
VI	Banking of Power				
VI	Drawal				
	Kreate Energy M/s Manikaran Power Ltd				
	Kolkatta				
	M/s GMR Energy trading				
	Ltd( Trading margin				
	01/08/2022 to 31/8/2022)				
	Injection				
	Kreate Energy				
	M/s Manikaran Power Ltd				
	Kolkatta				
	M/s GMR Energy trading				
	Ltd( Trading margin				
	01/08/2022 to 31/8/2022)				
	M/s APPCPL( Trading				
	margin 09/08/2022 to				
	15/8/2022)				
В	Within State Generations				
I	CO- GENERATION	26		26.00	
	Vedanta Plant-1	14.00	100.00%	14.00	
	Vedanta Plant -2	2.00	100.00%	2.00	
	Goa Sponge and private	10.00	100.00%	10.00	
	limited	10.00	100.00%	10.00	
С	RPO Obligation				
	Solar			31.00	
	NVVNL Solar			6	
	Solar STOA				
	SECI Solar			25.00	
	Net Metering				
	Non-Solar			100.00	

G	Total	23,460	680.67	
	Other Charges			
	Access & Trading Margin &			
	Charges, Wheeling, Open			
	PGCIL Transmission			
F	OTHER CHARGES			
	Power Purchase			
	Consumer for dedicated			
Е	Revenue recovered from HT			
D	REC Certificates			
	plant Goa			
	Hindustan waste treatment		50.00	
	SECI Tranche-VI		50.00	
	STOA (Non Solar)			
	Tranche II LTOA		50.00	
	Non Solar - SECI Wind			

				External Lo	sses (%)	
Power Allocated to Goa	Aux consumptio n (%)	Net Generation	Unit Purchased	Base Year (Tariff Order Approved) FY 2022-23	Projections (As per Tariff Order) 2022-23	Projections (As per Tariff Order) 2023-24
	9	10	11	14	15	16
3,815.54		152,589.53	3,571.92			
1655.64	6.68%	15450.43	1545.04	3.34%	3.34%	3.31%
271.92	9.00%	8908.22	247.45	3.34%	3.34%	3.31%
93.23	5.75%	7322.51	87.87	3.34%	3.34%	3.31%
77.69	5.75%	7322.51	73.23	3.34%	3.34%	3.31%
87.02	5.75%	7322.51	82.01	3.34%	3.34%	3.31%
39.02	5.75%	3550.21	36.78	3.34%	3.34%	3.31%
0.00	5.75%	2167.11	0.00	3.34%	3.34%	3.31%
0.00	5.75%	2279.60	0.00	3.34%	3.34%	3.31%
157.68	5.75%	14712.73	148.61	3.34%	3.34%	3.31%
35.48	5.75%	3715.34	33.44	3.34%	3.34%	3.31%
765.04	5.75%	15142.00	721.05	7.92%	7.92%	7.85%
78.84	5.75%	7430.67	74.31	3.34%	3.34%	3.31%
112.36	5.75%	9263.57	105.90	3.34%	3.34%	3.31%
108.34	5.75%	11228.57	102.11	3.34%	3.34%	3.31%
54.43	5.75%	11228.57	51.30	3.34%	3.34%	3.31%
87.49	5.75%	9263.57	82.46	3.34%	3.34%	3.31%
83.40	5.75%	7017.86	78.60	3.34%	3.34%	3.31%
107.97	5.75%	9263.57	101.76	3.34%	3.34%	3.31%
	9.50%	2511.53	92.63	3.34%	3.34%	3.31%
	9.50%	6849.62	96.14	3.34%	3.34%	3.31%
				3.34%	3.34%	3.31%
				3.34%	3.34%	3.31%
				3.34%	3.34%	3.31%

r		2 2 4 0/	2 2 4 0/	2 210/
		3.34%	3.34%	3.31%
		3.34%	3.34%	3.31%
		3.34%	3.34%	3.31%
		3.34%	3.34%	3.31%
		0.03	0.03	0.03
		3.34%	3.34%	3.31%
		 3.34%	3.34%	3.31%

		3.34%	3.34%	3.31%

Power Purchase (MUs)								
Actuals (MU)	Actuals (MU)		Base Year		Projections	Actuals (V		
2020-21	2021-22	2022-23 (April to September)	2022-23 (Oct to March)	2022-23	2023-24	2020-21		
17	18	19	20	21	22	23		
3,632.51	3,754.74	1,970.25	1,604.64	3,574.89	3,943.93			
1,627.27	1,628.48	812.72	732.33	1,545.04	1,628.48	139.35		
261.60	272.46	136.80	110.65	247.45	272.46	166.79		
110.31	105.44	55.03	32.84	87.87	105.44	160.12		
104.32	95.85	48.47	24.76	73.23	95.85	159.02		
112.18	117.22	65.57	16.44	82.01	117.22	156.90		
56.39	53.07	27.52	9.26	36.78	53.07	161.67		
17.74	1.85	-	-	-	1.85	201.26		
13.45	4.46	-	-	-	4.46	203.93		
223.04	185.06	87.22	61.39	148.61	185.06	141.90		
57.24	55.01	20.48	12.96	33.44	55.01	137.03		
612.22	592.94	340.14	380.91	721.05	721.05	246.67		
94.59	104.53	53.27	21.03	74.31	104.53	146.92		
59.60	71.50	42.78	63.12	105.90	105.90	298.75		
61.30	113.07	72.45	29.66	102.11	113.07	250.06		
53.61	100.49	54.28	-	54.28	100.49	204.06		
65.92	90.98	35.22	47.24	82.46	90.98	269.02		
54.85	87.25	52.78	25.82	78.60	87.25	270.72		
46.86	75.08	65.51	36.25	101.76	101.76	290.10		
222.63	225.55	122.96	65.81	188.77	225.55	634.08		
123.48	115.94	63.52	29.11	92.63	115.94	141.35		
99.15	109.62	59.43	36.70	96.14	109.62	492.73		
(297.27)	(150.43)	(48.68)	348.84	300.16	-	215.55		
(297.27)	(152.10)	(90.03)	348.84	258.81	-	215.55		
104.52	124.82	68.36	348.84	417.20		346.17		
401.79	276.93	158.39		158.39		255.12		

-	16.31	41.35	-	41.35		-
	14.63	-	-	-		-
(3.82)	24.71	44.20	-	44.20	-	(802.55)
28.70	51.47	44.98		44.98		335.02
32.53	26.77	0.78		0.78		201.32
				-	-	
18.17	(16.83)	(51.95)	48.33	(3.63)	(7.32)	9.17
	76.13	15.68	48.33	64.00	73.20	
				-		
			48.33	48.33	73.20	
		15.68		15.68		
-	92.96	67.63		67.63	80.52	-
		3.78		3.78		
		46.92		46.92	80.52	
		16.93		16.93		
149.53	180.37	46.56	92.57	139.13	154.13	
90.88	97.39	25.23	50.45	75.68	80.68	238.38
53.10	78.32	19.59	39.19	58.78	68.78	234.49
5.55	4.66	1.73	2.93	4.66	4.66	240.00
506.95	531.73	413.69	340.97	754.67	836.27	
	212.90	148.28	166.15	314.43	331.41	
12.97	13.03	6.42	6.63	13.05	12.79	550.00
73.28	135.74	105.33	110.98	216.31	224.16	470.00
49.48	48.10	23.64	31.42	55.06	54.46	550.00
12.65	16.03	12.89	17.11	30.00	40.00	308.00
	318.83	265.42	174.82	440.24	504.86	

49.32	139.09	82.31	59.87	142.18	142.18	271.00
63.11	178.00	170.72	73.38	244.11	212.50	271.00
		9.61	36.34	45.95	142.18	
1.02	1.74	2.77	5.23	8.00	8.00	500.00
	-	70.00	70.00	140.00	140.00	
	-	-		-	-	
		-		-		
4,228.70	4,549.85	2,497.03	2,501.16	4,998.19	5,152.57	

						Power Purch
C Rs./Unit)	Actuals (V(	CRs.Crore)	Actual (VC-Rs.Crore)		Per U	
2021-22	2020-21	2021-22	2022-23 (April to September)	2022-23 (Oct to March)	2022-23	Actual VC 2022- 23 (April to September)
24	25	26	27	28	29	30
				419.5208		
	632.33	707.63	502.32	372.41	874.73	
137.38	226.76	223.72	124.99	106.57	231.56	153.79
161.86	43.63	44.10	22.10	18.06	40.15	161.52
155.34	17.66	16.38	8.26	5.16	13.43	150.17
154.29	16.59	14.79	7.41	3.86	11.27	152.89
152.75	17.60	17.91	10.01	2.53	12.54	152.71
157.92	9.12	8.38	4.37	1.47	5.84	158.70
941.74	3.57	1.74	-	-	-	0.00
616.21	2.74	2.75	-	-	-	0.00
146.62	31.65	27.13	21.23	9.18	30.41	243.44
134.88	7.84	7.42	2.96	1.84	4.80	144.53
275.23	151.02	163.19	147.98	130.42	278.40	435.05
151.84	13.90	15.87	13.08	3.25	16.33	245.59
366.69	17.81	26.22	22.05	32.04	54.09	515.45
309.71	15.33	35.02	31.01	10.79	41.80	428.03
208.29	10.94	20.93	15.09	-	15.09	278.06
293.03	17.73	26.66	17.45	20.22	37.67	495.36
336.91	14.85	29.40		11.17	35.05	452.41
346.52	13.60	26.02	30.44	15.85	46.29	464.70
217.77	66.31	63.64	35.33	13.31	48.64	
111.94	17.45	26.37	14.64	4.98	19.62	230.47
105.83	48.85	37.27	20.69	8.33	29.02	348.09
	100.001	10 - 0 -		40		
207.80	(66.32)	(31.26)	25.10	135.73	160.82	
223.58	(66.32)	(34.01)	(22.18)	135.73	113.55	246.34
471.15	36.18	58.81	51.35	135.73	187.08	751.17
335.17	102.51	92.82	73.53	-	73.53	464.23

429.14	-	7.00	47.28	-	47.28	1143.29
290.49	-	4.25	-	-	-	
1,254.41	3.07	30.99	38.93	-	38.93	880.71
714.68	9.62	36.79	39.09	-	39.09	869.09
216.60	6.55	5.80	0.17	-	0.17	212.73
(17.55)	0.17	0.30	0.06	0.23	0.29	
			0.06	0.23		
				0.23	0.23	
			0.06			
-	-	-	-	-	-	0.00
	35.45	43.25	10.14	22.22	32.35	
240.49	21.66	23.42	5.94	12.11	18.05	235.44
238.76	12.45	18.70	3.78	9.41	13.19	192.97
241.45	1.33	1.13	0.42	0.70	1.12	239.97
271.73	1.55	1.15	0.72	0.70	1.12	200.07
	228.53	220.57	185.66	148.67	334.33	
	72.00	00.20	70.00	02.27	455.00	
550.02	<b>72.68</b> 7.13	<b>98.30</b> 7.16	73.66	<b>82.27</b> <i>3.65</i>	155.93	550.00
550.02 442.62	34.44	60.08	<b>3.53</b> 52.92	3.65 55.76	7.18	550.00 502.44
550.00	27.21	26.46	13.00	17.28	30.29	550.00
287.00	3.90	4.60	4.20	5.58	9.78	326.00
207.00	3.50	1.00		5.55	5.70	020.00
	30.98	122.27	112.01	66.40	178.41	

271.00	30.47	37.69	22.31	16.22	38.53	271.00
470.22		83.70	86.21	37.06	123.27	505.00
		-	2.10	10.50	12.60	218.50
503.28	0.51	0.87	1.38	2.62	4.00	500.00
			33.34			
	160.15	238.65	145.25	145.25	290.50	0.00
	160.15	238.65	145.25	145.25	290.50	
	1,059.67	1,273.76	909.45	837.82	1,780.60	880.71

IEX	A	ctual	Rate Considered
January	2021	2022	2022
February	3009.24	3447.37	3447.37
March	3307.67	4345.29	4345.29
April	3715.79	8110.53	3715.79
May	3494.88	9566.51	3494.88
June	2533.08	5879.16	2533.08
July	3015.64	6557.85	3015.64
August	2738.46	4729.71	4729.71
September	4628.76	4980.54	4980.54
October	3839.84	4845.36	4845.36
November	6926.43	3800.95	3800.95
December	3482.92	4783.54	4783.54
	3609.76		

ase Cost - Variabl	e Cost (VC)					
nit VC		Projections (%)				
VC considered for FY 2022-23 (Oct to March)		% increase w.r.t FY 2019- 20 to FY 2021- 22	% increase w.r.t FY 2021- 22 to FY 2022-23	CAGR (considered)		
31		32	33	34		
FY 2021-22	ECR Considered					
145.52	145.52	0.00%	3.00%			
163.18	163.18	0.00%	3.00%			
157.18	157.18	0.00%	3.00%			
155.90	155.90	0.00%	3.00%			
153.87	153.87	0.00%	3.00%			
158.79	158.79	0.00%	3.00%			
0.00	0.00	367.92%	-100.00%			
0.00	0.00	202.17%	-100.00%			
149.48	149.48	3.33%	3.00%			
142.31	142.31	0.00%	3.00%			
342.40	342.40	11.58%	3.00%			
154.40	154.40	3.35%	3.00%			
507.61	507.61	22.74%	3.00%			
363.80	363.80	23.85%	3.00%			
222.56	222.56	2.08%	3.00%			
428.00	428.00	8.92%	3.00%			
432.82	432.82	24.45%	3.00%			
437.20	437.20	19.45%	3.00%			
171.20		0.00%	105.90%			
226.96		0.00%	228.91%			
		3.73%	10.18%			
389.09		36.10%	59.43%	5.00%		
464.23		31.37%	38.50%			

1143.29			
0.00			
880.71			
869.09			
212.73			
0.04			
0.04			
0.00			
240.00	0.88%	0.00%	
240.00	1.82%	0.00%	
240.00	0.60%	0.00%	
240.00	0.00%	0.0070	
E 50.00	0.00%	0.000/	
550.00	0.00%	0.00%	
502.44	0.00% 0.00%	13.52% 0.00%	
550.00 326.00	0.00%	13.59%	
520.00	0.00%	13.33/0	

271.00	0.00%	0.00%	
505.00	73.51%	7.40%	
289.00			
500.00	0.66%	0.00%	

				Power P	urchase Cos	
Projections (VC- pc/unit)	Projections (VC- Rs.Crore)	Actuals (FC Rs.Crore)			Projections (FC-Rs.Crore)	
2023	-24	2020-21	2021-22	2022-23 (April to September)	2022-23 (Oct to March)	2022-23
35	36	37	38	39	40	41
	876.38	402.88	417.62	210.72	210.72	421.43
145.52	236.98	102.18	102.19	55.28	55.28	110.57
163.18	44.46	22.44	22.98	12.00	12.00	24.01
157.18	16.57	7.49	7.50	3.99	3.99	7.97
155.90	14.94	9.85	9.84	4.91	4.91	9.83
153.87	18.04	17.70	17.52	8.74	8.74	17.49
158.79	8.43	8.88	8.77	4.37	4.37	8.74
-	-	7.59	7.52	3.96	3.96	7.92
-	-	9.77	9.73	4.35	4.35	8.69
149.48	27.66	27.07	25.07	11.76	11.76	23.51
142.31	7.83	6.75	6.68	2.84	2.84	5.69
342.40	246.89	49.11	48.16	25.06	25.06	50.12
154.40 507.61	16.14 53.76	11.52 26.06	11.51 25.39	4.95 12.55	4.95 12.55	9.90 25.10
363.80	41.13	17.42	32.27	12.33	12.55	31.48
222.56	22.37	17.42	17.56	8.78	8.78	17.55
428.00	38.94	23.21	23.02	11.04	11.04	22.08
432.82	37.76	21.31	20.87	9.99	9.99	19.98
437.20	44.49	21.68	20.07	10.40	10.40	20.80
					-	-
200.47	44.72				-	-
<b>398.17</b>	<b>44.73</b>			-	-	-
171.20 226.96	19.85 24.88			-	-	-
220.90	24.00			-	-	-
				_	-	-
	- 0.00			-	-	-
408.54	-			-	-	-
464.23	-			-	-	-

429.14	_		-	_	-
-			_		
				-	-
	-		-	-	-
	-		-	-	-
	-		-	-	-
				-	-
	0.35				
	0.35				
0.05	0.25				
0.05	0.35				
-			-		
					_
				-	-
	36.99		-	-	-
240.00	19.36		-	-	-
240.00	16.51		-	-	-
240.00	1.12		-	-	-
				-	-
	343.56		-	-	-
				-	-
	162.65		-	-	-
550.00	7.03		-	-	-
502.44	112.62		-	-	-
550.00	29.95		-	-	-
326.00	13.04		-	-	-
				-	-
	180.91			-	-

	1,592.51	431.05	417.62	210.72	210.72	421.43
				0		-
	290.50	28.17		0.00	-	-
	290.50	28.17		-	-	-
					-	-
					-	-
					-	-
500.00	4.00			-	-	-
218.50	31.07			-	-	-
505.00	107.31			-	-	-
271.00	38.53			-	-	-

t - Fixed Cost Cost (FC) (Rs.Cr)				
Projections (FC-Rs.Crore)	Other Charges	Supplementar y Charges	Total Cost (VC + FC Rs.Crore)	
2023-24	FY 2022-23 H1	FY 2022-23 H1	2022-23	2023-24
42	43	44	45	46
421.43	17.83	43.67	1,357.66	1,297.81
110.57	11.34	31.55	385.02	347.54
24.01	1.48	2.47	68.11	68.47
7.97	0.51	2.48	24.39	24.55
9.83	0.38	(0.11)	21.37	24.77
17.49	0.90	2.05	32.97	35.52
8.74	0.22	(0.10)	14.69	17.16
7.92	-	3.43	11.35	7.92
8.69	-	0.40	9.09	8.69
23.51	0.78	6.20	60.90	51.18
5.69	0.19	0.16	10.84	13.52
50.12	-	(2.37)	326.15	297.01
9.90	0.77	(3.68)	23.32	26.04
25.10	-	0.28	79.47	78.85
31.48	0.51	0.67	74.46	72.62
17.55	0.52	0.27	33.44	39.92
22.08	0.25	0.69	60.68	61.02
19.98	-	(1.30)	53.74	57.75
20.80	(0.00)	0.57	67.66	65.29
			-	
			-	
			-	
-			48.64	44.73
-			19.62	19.85
-			29.02	24.88
			-	
			160.82	-
			113.55	-
			187.08	-
			73.53	-

	1			
			47.28	-
				-
			-	-
			38.93	-
			39.09	_
			0.17	-
			-	-
			0.29	0.35
			0.25	0.55
				-
<u> </u>				
			-	-
			-	-
			32.35	36.99
			18.05	19.36
			13.19	16.51
<u> </u>				
			1.12	1.12
			-	-
			334.33	343.56
				545.50
			-	-
			155.93	162.65
			7.18	7.03
			108.68	112.62
			30.29	29.95
			9.78	13.04
			-	
			178.41	180.91
			1,0.11	100.01

38.53
107.31
31.07
4.00
-
-
-
290.50
290.50
-
- 2,013.94

4.46

# Sales, Consumers & Connected Load

		Sales (kWh)					
S.No.	Category	Current Year Approved	Apr-Sep (FY 2022-23) Actual	Oct-Mar (FY 2022-23) Projected	Current Year Estimated	Control Perio	
		FY 2022-23	FY 2022-23	FY 2022-23	FY 2022-23	FY 2023-24	
1	Domestic						
	11 kV Voltage Level	0.00	0.18	0.19	0.38	0.39	
	Tariff HTD/Domestic		0.18	0.19	0.38	0.39	
	Tariff-HTTS/Temporary Supply (HT Domestic)						
	LT Voltage Level						
	Tariff LTD/Domestic and Non-Commercial	0.00	714.08	624.45	1,338.53	1,385.41	
	0-100 units		258.46	226.01	484.47	501.44	
	101-200 units		168.29	147.17	315.46	326.50	
	201 to 300 units		96.66	84.53	181.19	187.54	
	301 to 400 units		56.61	49.51	106.12	109.83	
	Above 400 units		134.06	117.23	251.29	260.09	
	Tariff LTD/Low Income Group		0.48	0.42	0.90	0.93	
			0.40	0.42	0.90	0.95	
	Tariff-LT/Temporary Domestic		0.46	0.57	1.03	1.06	
	0-100 Units				0.46		
	101 to 200 Units				0.00		
	201 to 300 Units		0.46		0.00		
	301 to 400 Units				0.00		
	Above 400 Units				0.00		
	Sub-Total	0.00	715.21	625.63	1340.84	1387.78	
2	Communicat						
2	Commerical 33 kV & 11 kV Voltage Level						
	Tariff HT-Commercial		74.24	92.16	166.40	170.89	
	11 kV Voltage Level		71.21	52.10	100.10	170.05	
	Tariff HT-Commercial						
	Tariff-HTTS/Temporary Supply (HT Commercial)		2.76	3.39	6.15	6.33	
	LT Voltage Level						
	Tariff-LTC/Commercial	0.00	237.67	259.28	496.95	511.86	
	0-20 KW/Commercial Consumers						
	1-100 Units		36.32	39.62	75.94	78.22	
	101-200 units		22.44	24.48	46.92	48.33	
	201-400 Units		27.90	30.44	58.34	60.09	
	Above 400 units		87.42	95.37	182.79	188.27	
	>20-90Kw Commercial Consumers						
	1-100 Units		1.80	1.96	3.77	3.88	
	101-200 units		1.72	1.87	3.59	3.70	
	201-400 Units		3.27	3.56	6.83	7.04	

## Sales, Consumers & Connected Load

	Above 400 units	56.80	61.97	118.78	122.34
	Tariff-LT/Temporary Commercial	1.32	1.62	2.94	3.03
	0-20 KW/Commercial Consumers				
	0-100 Units	1.32	1.62	2.94	3.03
	101 - 200 Units				
	201 - 400 Units				
	Above 400 Units				
	>20-90Kw and above Commercial Consumers				
	0 - 100 units 101 - 200 units				
	201-400 units				
	Above 400 units				
	Above 400 units				
	Sub-Total	315.99	356.45	672.44	692.11
	Public Lighting				
	LT Voltage Level Tariff-LTPL/Public Lighting	20.07	17.00	47.50	50.09
	Unmetered LTPL	29.97	17.60	47.56	50.09
	Agricultural Pumpsets				
	HT Voltage Level (33 kV & 11 kV)				
	HT-Agriculture				
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	2.89	3.43	6.32	6.51
	Tariff-HTAG/Agriculture (Allied Activities) (B)	6.61	7.86	14.47	14.90
	HT Voltage Level (33 kV) HT-Agriculture				
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)				
	Tariff-HTAG/Agriculture (Pump Sets/Infgation) (A) Tariff-HTAG/Agriculture (Allied Activities) (B)				
	Tunjj-TTAG/Agriculture (Allieu Activities) (B)				
	HT Voltage Level (11 kV)				
	HT-Agriculture				
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)				
	Tariff-HTAG/Agriculture (Allied Activities) (B)				
	LT Voltage Level LT-Agriculture				
	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	8.16	10.34	18.50	19.05
	Tariff-LTAG/Agriculture Allied (B)	0.63	0.80	1.44	1.48
		0.05	0.00	1.11	1.10
	Sub-Total	18.29	22.44	40.73	41.95
5	Small Power				
	LT Voltage Level				
	LTI-Industry	43.92	47.15	91.06	93.79
	0-500 Units	8.25	8.86	17.11	17.63

## Sales, Consumers & Connected Load

	Above 500 units	35.66	38.29	73.95	76.17
	Tariff-LTP/Mixed (Hotel Industries)	1.93	2.11	4.04	4.16
	Sub-Total	45.85	49.25	95.10	97.96
6	Medium Supply 11kV, Large Supply 33 kV & Bulk Supply 110 kV				
	33 kV / 11 kV & 110 kV Voltage Level				
	Tariff HTI/Industrial	826.87	868.44	1695.31	1738.62
	33 kV/11kV	706.38	741.90	1448.28	1485.28
	110kV	120.49	126.54	247.03	253.34
	H.T.Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive)	243.95	256.21	500.17	512.94
	H.T. MES/Defence Establishments	16.12	15.75	31.87	33.43
	Sub-Total	1086.94	1140.41	2227.35	2284.99
8	Bulk Supply				
	110 kV Voltage Level				
	Tariff HTI/Industrial (Connected at 110 kV)				
	33 kV Voltage Level		0.70	6.44	6.60
	Single Point Supply	2.63	3.78	6.41	6.68
	Residential Complexes Commercial Complexes	2.63	3.78	6.41	6.68
		2.63	3.78	0.41	0.08
	Industrial Complexes				
	Sub-Total	2.63	3.78	6.41	6.68
	Sub-iotai	2.03	5.70	0.41	0.00
9	Other Categories				
	33 kV Voltage Level				
	Electric Vehicle Charging Station				
	11 kV Voltage Level				
	Tariff-LT Hoarding and SignBoard	0.13	0.17	0.31	0.34
	Electric Vehicle Charging Station				
	Grand Total	2215.01	2215.73	4430.74	4561.91

# FORMAT-3

# ELECTRICITY DEPARTMENT - GOA

### POWER PURCHASE COST YEAR 2022-23 Projection Year 2023-24 ENERGY BALANCE

(All figures in MU)

Sr. No.	Item	FY	2022-23 H1	L	FY 2022-23 H2	FY 2022-23	FY 2023-24
		WR	SR	Total	Total	Total	Total
1	2	6	7	8	9	10	11
1	Energy Input at Goa Periphery	1,980.69	367.72	2,348.41	2,313.93	4,662.34	4,780.60
2	Total Power Scheduled/ Purchased at Goa Periphery						
	Total Schedule Billed Drawal - CGS	1,761.68	331.53	2,093.21	1,670.45	3,763.66	4,169.49
	Add: Overdrawal	21.23	23.76	44.98	-	44.98	-
	Add: Power purchase from NVVN / Banking	(51.95)		(51.95)	48.33	(3.63)	(7.32)
	Add: Power purchase from Traders	26.28	15.07	41.35	-	41.35	-
	Add: Power purchase from / Open Market	43.45	24.91	68.36	348.84	417.20	-
	Add : Hydro Power		-	-	-		
	Less: Underdrawal	0.78	-	0.78	-	0.78	-
	Add: Renewable Power	398.04	-	398.04	318.63	716.67	788.27
	Less: Power diverted to Exchange	158.39	-	158.39	-	158.39	-
	Total	2,039.56	395.26	2,434.82	2,386.24	4,821.06	4,950.44
3	PGCIL Losses - MUs	58.87	27.54	86.41	72.31	158.72	169.84
-	PGCIL Losses - %	2.89%	6.97%	3.55%	3.55%	3.55%	3.55%
4	Total Power Purchased within Goa State			-			
	Add: Co-generation	46.56		46.56	92.57	139.13	154.13
	Add: Independent Power Producers (IPP)			•			
	Add: Net Metering	12.89		12.89	17.11	30.00	40.00
	Add: PM KUSUM	-		-			
	Add: Hindustan Waste Treatement Plant	2.77		2.77	5.23	8.00	8.00
	Total	62.21	-	62.21	114.92	177.13	202.13
5	Total Power Purchase availability after PGCIL Losses	2,042.90	367.72	2,410.62	2,428.85	4,839.47	4,982.73
	Power Purchase required (MU)			2,410.62	2,428.85	4,839.47	4,982.73
	Less: Retail Sales to Consumers	2,215.01		2215.01	2,215.73	4,430.74	4,561.91
	Distribution Losses - MUs			195.61	213.12	408.73	420.83
6	Distribution Losses - %			8.11%	8.77%	8.45%	8.45%

Energy Balance (Availability Vs	Requirement)
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Sr.	Particulars		Control P
No.	Particulars		APR
		FY 2022-23 H1	FY 2022-23 H2
A)	ENERGY REQUIREMENT		
1	Energy sales to metered category within the State	2,215.01	2,215.73
2	Total sales within the State	2,215.01	2,215.73
3	Distribution Losses (MU)	195.61	213.12
4	Distribution Losses (%)	8.11%	8.77%
5	Energy required at Discom Periphery	2,410.62	2,428.85
6	Intra-State Trasmission Losses	-	
7	Energy Required at State Periphery for own sale	2,410.62	2,428.85
8	Sales to common pool consumers	0.78	-
9	Sales outside state	158.39	
10	Total Energy Requirement at State Periphery	2,251.45	2,428.85
B)			
1	Availability from firm sources outside state	2,439.30	2,037.40
2	Availability from UI Over-drawal/ Under-drawal	44.20	-
3	Net Purchase from open market	-48.68	348.84
5	Total Availability of Energy from outiside the state	2,434.82	2,386.24
6	PGCIL Losses - MUs	86.41	72.31
7	PGCIL Losses - %	3.55%	3.55%
8	Total Availability of Energy at State Periphery from outise state after Interstate Losses	2,348.41	2,313.93
9	Availability from firm sources inside the state	62.21	114.92
10	Total Availability of Energy for the State	2,410.62	2,428.85
11	Surplus / (Deficit)	-	-

eriod	
	FY 2023-24
FY 2022-23	PROJECTION
4,430.74	4,561.91
4,430.74	4,561.91
408.73	420.83
8.45%	8.45%
4,839.47	4,982.73
4,839.47	4,982.73
0.78	-
158.39	0.00
4,680.30	4,982.73
	1070.11
4,476.70	4,950.44
44.20	-
300.16	-
4,821.06	4,950.44
158.72	169.84
3.55%	3.55%
4,662.34	4,780.60
177.13	202.13
4,839.47	4,982.73
-	-

### All Figures are in Rs Cr

## Year-wise Capital Expenditure (FY 2022-23)

	Details	of Capital Expenditure-	scheme-wise				Source of	of Financing for	r Capex At th	ne beginning of Y	ear	:	Source of Fina	ncing for Capex	During the Yea	ır	Exper	ises Capitalise	ed at the Start	of Year	Ex	penses Capita	ised During Ye	ar	Exper
							Equity componer Year		Capital			Equity compo in Y	nent of Capex	Carribal	-										
S.No		Nature of Project	Year of Start	Cumulative		Total Capex till	Internal Accrual		Subsidies/ grants	Consumer Contribution	Loan	Internal		Subsidies/	Consumer Contribution	Loan Amount	Employee	A&G	R&M	Interest	Employee	A&G	R&M	Interest	Employee
	Name of scheme/ Project	(Select appropriate Code)	Year of Start	expenditure till beginning of the Year	Capex during	end of the Year	(from free reserves and surplus)	Equity Infused	component (as applicable)	component (as applicable)	Amount	Accrual (from free reserves and surplus)	Equity Infused	grants component (as applicable)	component (as applicable)	Loan Amount	Expenses Capitalised	Expenses Capitalised	Expenses Capitalised	Expenses Capitalised	Expenses Capitalised	Expenses Capitalised	Expenses Capitalised	Expenses Capitalised	Expenses Capitalised
A1	Schedule Tribe Development Scheme (P)	Distribution Schemes (System Improvement)		49.68	41.24	90.92		41.24					41.24												
A2	Machinery and Equipments (Plan) Motor Vehicles Infrastructure development through Electricity Duty (Plan)			375.61	142.04	517.65			142.04					142.04											
	Cabling in North and South Goa	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of New 50 MVA, 220/33 KV transformer & associated works at 220KV receiving station at Ponda and erection of 220/33/11KV GIS substation at Tuern & 220KV double circuit transmission line from PGCIL Colvale to Tuern Goa	EHV Schemes							0.00					0.00											
	Work of 2x10 MVA, 33/11KV (indoor type) sub-station at Badem & Mandrem	Distribution Schemes							0.00					0.00											
	Design, Supply, installation, Testing and Commissioning of 33/11KV Gas insulated Substation 2x16/20MVA along with associated equipment at Patto Plaza Panaji	Distribution Schemes (System Augmentation)							0.00					0.00											
	Work of 2x10 MVA, 33/11KV Indoor type substation along with associated equipment at Karaswado Mapusa.	Distribution Schemes (System Augmentation)							0.00					0.00											
	Work of laying of underground 33KV double circuit 3Cx400 sq mm cable from Porvorim Substation to Saligao Substation.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of 2x10 MVA, 33/11KV Indoor type substation along with associated equipment's at Sal in the jurisdiction of V.P Sal in Bicholim	Distribution Schemes (System Augmentation)							0.00					0.00											
	Work of conversion of existing O/H 11KV & LT line to U/G cabling system at Cacora Curchorem Municipal area in Curchorem constituency	Distribution Schemes (System Improvement)							0.00					0.00				1	1						
	Work for conversion of 11KV and LT overhead lines to underground network in the left out parts of Margao Municipal areas in Margao & Fatorda	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of erection of 33 kV O/H line tapping from Mapusa II Circuit at Verla Canca to Nagoa Substation.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of S.E.T & C for replacement of 5 Nos of 110 KV SF6 Circuit breakers (MOCB) on the existing foundations with new gang operated spring.	EHV Schemes							0.00					0.00											
	Work of Development of V.P Ibrambur as Model Village under Sansad Adarsh Gram Yojana (SAGY)	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of laying of 11 KV XLPE underground cable from Candolim church to Saipem village	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of conversion of existing overhead 11 KV line to underground system of feeders namely 11 KV Torda, 11 KV Housing Board, 11 KV Pundulik Nagar feeder and associated LT network on transformer of said feeders and bifurcation of HVN Torda feeder and Chogum road feeder emanating from 3311 KV Porvoim Sub-Station covering major portion of Porvoim Pialaeux area in Porvoim constituency.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of laying of 33KV S/C 3 core 400 Sq mm. XLPE underground cable from Naveli Amona 220/33KV Sub- substation to Marcel for a distance of 8.4 kms	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of linking of 33KV Velim, Canacona & MES DC feeder to 220/33KV Cuncolim Sub-Station.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of conversion of HT/LT overhead network to underground HT & LT network in Cuncolim Industrial Estate	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of survey, design, supply, erection and commissioning of 3x63 MVA, 220/33 KV GIS Sub-Station at Saligao along with associated interconnecting 220 KV D/C line from 400/220 KV PGCIL Colvale Sub-Station to Saligao Sub-Station.	EHV Schemes							0.00					0.00											
	Work of conversion of existing overhead 11 KV feeders to underground system, erection of new DTCs, augmentation of DTC, erection of additional feeders, conversion single phase to three phase, replacement of conductor, providing guarding, DP renovation etc. under Section Office Saligao and Britona	Distribution Schemes (System Improvement)							0.00					0.00											
	Sub-Station to 33/11 KV Sub-Station at Nachinola	Distribution Schemes (System Improvement)							0.00					0.00											
	Change of conductor of 110 KV Ponda -Verna and Ponda - Xeldem with higher current capacity HTLS conductor.	EHV Schemes Distribution Schemes							0.00					0.00											
	Street Light EESL Payment	(Schemes for Loss Reduction)							0.00					0.00											
A3	Other than approved works undertaken Erection and Augmentation of 33/11 KV S/S line (Plan)	Distribution Schemes Distribution Schemes (System Augmentation)		7.81	5.00	12.81		5.00	0.00				5.00	0.00											
A4	Normal Development Schemes (Plan)	Distribution Schemedevelopment (System Augmentation)		7.74	6.00	13.74		6.00					6.00												

	1		 			 			 		,
A5	System Improvement Schemes (Plan)	Distribution Scheme development (System improvement Schemes)	66.90	33.77	100.67	33.77			33.77		
A6	Construction of staff quarters and office buildings (Plan)	Miscellaneous	1.27	2.00	3.27	2.00			2.00		
	Erection of 220/33 KV 1X50 MVA Sub-Station at Cuncolim										
A7	Strengthening of 220 KV Transmission Network	EHV Schemes	6.40	11.74	18.14	11.74			11.74		
	Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem Accelerated Power Development Reforms Programme										<u> </u>
	Erection of 2nd 100 MVA transformer at Xeldem 220/110 KV S/S										
AS	Erection of 220/110/33/11 KV Sub-Station at Verna (New)	EHV Schemes	1.18	0.00	1.18	0.00			0.00		
	Erection of 220 KV line from Ponda-Verna-Xeldem										
	Erection of 220/110/33/11 KV Sub-Station at Soccorro Erection of 220 KV D/C line from Colvale to Soccorro										
	Erection of 110 KV D/C line from Soccorro to Kadamba										<b>└───</b> ┘
	APDRP(State Schemes)	Distribution Schemes (System Improvement)	1.60	0.00	1.60	0.00			0.00		
A9	Restructured Accelerated Power Development and Reforms Programme Part A	Distribution Schemes (System Improvement)	27.05	10.00	37.05	 10.00			10.00		
	Research baining and human research development	Distribution Schemes									
A10	Underground Cabling	(System Improvement)	17.86	162.10	179.96	162.10			162.10		'
	(R-APDRP) during Eleventh Plan period	Distribution Schemes									
		(System									1
A11	R-APDRP Part B / IPDS	Augmentation,System Improvement), Metering Schemes	48.35	2.00	50.35	0.80	1.20		0.80	1.20	
A12	EHV new Transmission / Sub-Station / Capacitor banks	EHV Schemes	0.70	0.00	0.70	0.00			0.00		
B1	schemes Smartgrid Development of existing network		0.00	0.00	0.00	 0.00			 0.00		┝────┘
B2	Sub-transmission and distribution improvement scheme	Distribution Schemes	9.54	79.00	88.54	79.00			79.00		[
D2	oue-canonission and distribution improvement scheme	(System Improvement)									
	33/11 KV Gas Insulated Sub-Stations		 0.00	0.00	0.00	0.00			0.00		
	Underground Cabling of Anjuna Feeder (World Bank Funding)	Distribution Schemes	0.00	0.00	0.00	0.00			0.00		
		(System Improvement) Distribution Schemes						<u> </u>			
	Additional Central Assistance to Tribal Sub-Scheme	(System Improvement)	0.00	0.00	0.00	0.00			0.00		L
	Public Lighting Scheme Total	Miscellaneous	0.30	0.00	0.30	0.00	143.24		0.00	143.24	<b>└───</b> ┘
			012.00	404.00	1110.00	001.00	140.24		001.00	140.24	
	New Schemes Projects with Administrative approval										
	Estimate for the work of providing U/G cabling network for ring feeding 11KV Barazan feeder emanating from 1 x 6.3MVA	Distribution Schemes									
1	Xelpem S/S under the jurisdiction of S/D-III, Sanguem, Div-VII, Curchorem in Sanguem Constituency.	(System Improvement)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
2	Estimate for the work of Design, Supply, Erection, Testing and Commissioning of new Outdoor Gas Insulated Hybrid Switchgears of 220KV Incomer line bays KP-I and TP-II at 220/110/33KV Ponda Sub-Station.	EHV Schemes	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
3	Estimate for conversion of HT O/H lines to U/G network feeder & part of 11KV Xeldem feeder & Rivorna feeder in order to provide un-interrupted power supply to consumers connected of Bansai feeder under Curchorem Constiuency.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
4	Estimate for the work of conversion of existing 11 KV overhead lines to underground system, coming under the jurisdiction of Sub Division-III, Division XIV Verna of areas under Cortalim Constituency and Nuvem Constituency.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
5	Estimate for the work of S.E.T.C. of 1 no. of 50MVA, 110KV/ 33KV Power transformer at 110KV/ 33KV Verna S/S.	EHV Schemes	0.00	0.00	0.00	0.00	0.00		 0.00	0.00	
	Estimate for re-conductoring of existing O/H ACSR Raccon	Distribution Schemes									
6	Conductor to HTLS Conductor of 33KV double circuit line from 110/33KV Kadamba S/S to 33/11KV Bambolim S/S.	(System Improvement)	0.00	0.00	0.00	 0.00	0.00		0.00	0.00	
7	Estimate for the work of conversion of existing 11kV O/H network to U/G cabling network of 11KV Bhati feeder emanating from 1 x 3.15 M/A, 33/11kV Waddem 3/S under the jurisdiction of S/D-III Sanguern, Div-VII, Curchorem in Sanguern Constituency.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
8	Estimate for the work of conversion of existing 11KV O/H network to U/G cabling network of 11KV Sanguem feeder emanating from 1 x 6.3MVA, 33/11KV Xelpem 3/S under the jurisdiction of S/D-III, Div-VII, Curchorem in Sanguem Constituency.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
9	Estimate for the work of conversion of existing 11KV overhead network to underground cabling network of 11KV Ponsamol feeder emanating from 1x8 3MVA, Xelpem Sub-Station under the jurisdiction of Sub Division-III, Sanguem, Division-VII, Curchorem in Sanguem Constituency.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
10	Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300s.n.m., for conversion of existing OH1 11KV Mandrem feeder emanating from 33/11KV Tuem S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem, Div-XVII, Mapusa in Mandrem Constituency.	Distribution Schemes (System Improvement)	0.00	16.00	16.00	16.00	0.00		16.00	0.00	
11	Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Sodiem feeder emanating from 33/11KV Mapusa S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem, Div-XVII, Mapusa.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	

12	Estimate for the work of improvement of 11KV HT network of Undir & Durbhat feeder in Village Wadi Talaulim, Durbhat, Bandora, pert of Curit & part of Sorim inhabited by the Scheduled Tribes population under Tribal Sub-Plan by converting 11KV HT OH lines to U/G cable under the jurisdiction of SID-I, Div-X, Ponda	Distribution Schemes (System Improvement)	0.00	5.00	5.00	5.0	0.00		5.00	0.00		
13	Estimate for the work of conversion of 11KV HT electrical network of Khadpabandh, Ponda-I, Bazar and part of Durbhat, Farmagudi & Curti feeders by converting 11KV HT O/H lines to U/G cable, under the jurisidiction of S/D-I, Div-X, Curti-Ponda.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
	Total		0.00	21.00	21.00	21.0	0.00		21.00	0.00		
	Projects Approved by EFC											
	Conversion of existing O/H 11KV HT network to underground	Distribution Schemes										
1	(U/G) cabling for Vasco Town under the Jurisdiction of Sub Division-I(U), Vasco, Work of conversion of O/H HT network to underground HT	(System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
2	Work of conversion of U/H H network to underground H I network of 334V Xeldem - Xelpem feeder in order to provide uninterrupted m power supply to Salaulim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
3	feeder from 220/33 KV Xeldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
4	Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-111 and Nessai- IV feeder from 220/33 KV Neldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
5	Work of supply, erection, testing and commissioning of 33/11kV, 2x10 MVA, Indoor type Sub-Station (Electrical and Civil Works) at Mandrem under Sub Division-III Agarwada, Div XVII Mapusa.	Distribution Schemes (System Augmentation)	0.00	25.00	25.00	0.0	25.00		0.00	25.00		
6	Conversion of existing O/H 11 kV Balli feeder into undergound cabling system emerging from 33/11 kV Cuncolim Substationunder the jurisdiction of Elect. O&M Sub. Div-IV, Div- XVI, Cuncolim.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
7	Work of conversion of O/H HT network to undergorund HT network in Chinchinium, Dharmapur & Sarzora area of Velim Contituency under the jurisdiction of Subdivision-II Chinchinim, Division-XVI Margao, in South Goa District.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
8	Worth of Decign, Supply, Erection & Commissiong of 33 kV, 2x3 Core, 400 Sq.mm XLPE Cable from Cable from Ponda Sub- Station to Bnastarin for a distance of 185 kms and 1x3 Core 185 Sq.mm XLPE Cable for a distance of 1.95 kms for providing reliable supply to kundaim, Marcel area and Industries of Kundaim Industrial Estate.	Distribution Schemes (System Improvement)	0.00	5.00	5.00	0.0	5.00		0.00	5.00		
9	Work of conversion of Existing 11 KV (HT) overhead lines to underground cabling network for 11 KV Mandop feeder, 11 KV MES feeder, 11 KV Navelim feeder, emanating from 33/11 RKC Substation and provision for additional 11 KV Navelim Express feeder under Subdivision III, Navelim, Division IV, Margao Goa under Infrastructure Development Fund.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
10	Work of upgrading of 220 KV VRK line by replacement of existing ACSR Drake Conductor with HTLS ACCC DRAKE Conductor from Ponda 220KV Ponda Sub-Station to 220KV Xeldem Sub-Station and replacement of polymer subpension insulator of 220KV AP-R Circuit from Ponda S/S to Kardi point.	EHV Schemes	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
11	Work of conversion of the existing overhead 11 KV line of Bicholim City, Assonora, Bordem and Bicholim IDC feeder emanating from 33/11 KV Bicholim Sub-station to underground cable system in the jurisdiction of Sub Division-I(U), Bicholim- Goa.	Distribution Schemes (System Improvement)	0.00	12.00	12.00	12.0	0.00		12.00	0.00		
12	Work of conversion of existing LT O/H line of 11KV Kakoda Feeder & 11 KV Town-II feeder into underground cabling system in Curchorem Constituency.	Distribution Schemes (System Improvement)	0.00	12.00	12.00	0.0	12.00		0.00	12.00		
13	Work of conversion of existing 33KV SC overhead Virdi II feeder to Double Circuit line with HTLS Conductor from 220 KV Amona Sub Station, under Sub Division – I(U), Bicholim.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0			0.00	0.00		
L	Total		0.00	54.00	54.00	12.0	42.00		12.00	42.00	_	
<u> </u>	Projects tendered (To start next year)			l								
1	Tender No. 19(2020-21)/CSC: Tender for the Work of conversion of 11KV overhead network of Toria feeder to 11KV underground system along the road side from 3311KV Shiroda substation under Sub Division II, Div. X, Ponda in Shiroda constituency	Distribution Schemes (System Improvement)	0.00	1.50	1.50	0.0	0 1.50		0.00	1.50		
2	Construency Tender No. 22(2020-21)/CSC: Work of conversion of 11KV S/C OH St. Cruz feeder to UG network by laying 11KV, 3Core 300sq.mm. aluminium armoured XLPE cable for a distance of 14.5 Km a long with associated equipments.	Distribution Schemes (System Improvement)	0.00	6.00	6.00	0.0	0 6.00		0.00	6.00		
3	Tender No. 23(2020-21)/CSC: Work for conversion of 11KV SC OH Diwar feeder, Diwar and Chorao section in the jurisdiction of Sub Division-I, Division-I, Panaji.	Distribution Schemes (System Improvement)	0.00	0.00	0.00	0.0	0.00		0.00	0.00		
4	Tender No. 24(2020-21)(DSC: Work of Supply, Laying, Testing & Commissioning of 33KV Core 400 sq.mm. XLPE U/G cable from 220/33KV Amona 5/5 for providing alternate power supply to 3311KV Sankhali §/5	Distribution Schemes (System Improvement)	0.00	2.00	2.00	0.0	2.00		0.00	2.00		
5	Tender No. 25(2020-21)/CSC: Work of Supply and Laying of 33KV, 3C X400sq.mm. XLPE Aluminium cable from Sonshi to Amona S/S.	Distribution Schemes (System Improvement)	0.00	1.00	1.00	0.0	0 1.00		0.00	1.00		

° :	13Kms along with associated equipments.	Distribution Schemes (System Improvement)		0.00	5.00	5.00		0.00	5.00				0.00	5.00		
	Tender No. 27(2020-21)/CSC: Work of conversion of existing 11KV overhead Industry feeder, 11KV cable Industry feeder and 33KV Unichem feeder to underground system and providing new 11KV feeder at Pilerne Industrial Estate, Pilerne under Sub Division-II, Provorim.	Distribution Schemes (System Improvement)		0.00	3.00	3.00		0.00	3.00				0.00	3.00		
8	Tender No. 29(2020-21)/CSC: Work of conversion of overhead 11KV Industry-IV feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.	Distribution Schemes (System Improvement)		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
9	Tender No. 30(2020-21)/CSC: Work of conversion of overhead 11KV of Shiroda feeder to 11KV underground system along the road side from 33/11KV Bethora Sub-Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.	Distribution Schemes (System Improvement)		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
10	Tender No. 33(20-21)/CSC: Tender for the work of conversion of 11KV Industry-II/IIII feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.	Distribution Schemes (System Improvement)		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
11		Distribution Schemes (System Improvement)		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
12	Tender No. 38(20-21)/CSC: Tender for the work of conversion of overhead 11KV Mollem feeder to underground network under the jurisdiction of Sub Division-IV, Division-VII, Curchorem.	Distribution Schemes (System Improvement)		0.00	2.00	2.00		0.00	2.00				0.00	2.00		
13	Tender No. 39(20-21)/CSC: Tender for the work of conversion of overhead 11KV Dhat feeder to underground network under the jurisdiction of Sub Division-IV, Division-VII, Curchorem.	Distribution Schemes (System Improvement)		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
14	Curchorem.	Distribution Schemes (System Improvement)		0.00	2.00	2.00		0.00	2.00				0.00	2.00		
15	Tender No. 07(2021-22)/CSC: Tender for the Work of conversion of existing 33KV MES single circuit line to double circuit line emanating from 220/33KV Curcolim substation to 33/11KV KRC substation under Div. IV, Margao	Distribution Schemes (System Improvement)		0.00	3.40	3.40		3.40	0.00				3.40	0.00		
16	Tender No. 10(2021-22)/CSC: Work of Supply. Erection, Testing and Commissioning 11KV 3Core, XLPE armoured Cable of size 300 Sq. mm. for conversion of existing overhead 11KV Morjim Feeder to underground system under the jurisdiction of Sub-Division-III, Agarwada, Div XVII - Mapusa.	Distribution Schemes (System Improvement)		0.00	10.00	10.00		0.00	10.00				0.00	10.00		
17	Tender No. 12(2021-22)/CSC: Supply, Laying, Testing and Commissioning of 33KV, 3 Core, 400 Sq.mm. XLPE cable double circuits (Velim-I & Velim-II) from 220/33KV Cuncolim substation to 33/11KV Velim substation	Distribution Schemes (System Improvement)		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
		Distribution Schemes (System Improvement)		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
	Tender No. 35(20-21)/CSC: Tender for the work of conversion of 11KV overhead network of Nirankal feeder to 11KV underground system along the road side from 33/11KV Bethora Sub-Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.	Distribution Schemes (System Improvement)		0.00	1.50	1.50		0.00	1.50				0.00	1.50		
	Total			0.00	37.40	37.40		3.40	34.00				3.40	34.00		
<u> </u>	REVAMPED Distriution Projects															
	Smart Meter and AMI	Metering Schemes		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
2	SCADA upgradation, cabling connection, infra develipement,	SCADA/DMS		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
3	mordernization	Miscellaneous		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	0.00		
	Other Schemes															
	Saligao 3/63 MVA 220X33 kV S/s at Saligao & Associated D/C	EHV Schemes		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
	Lines	EHV Schemes EHV Schemes		0.00	0.00	0.00		0.00	0.00				0.00	0.00		
		EHV Schemes EHV Schemes		0.00	5.00	5.00		0.00	5.00				0.00	5.00		
4	Tuem Project	EHV Schemes		0.00	20.00	20.00		20.00	0.00				20.00	0.00		
5	Over Head to Underground Cuncholim Conocona Xeldom S/s (220/33 63 MVA T/F)			0.00	0.00	0.00		0.00	0.00				0.00	0.00		
	Xeldom S/s (220/33 63 MVA T/F) Total			0.00		0.00 25.00		0.00	0.00				0.00 20.00	0.00		
				0.00	0	_3.00		_5.00	2.00					5.00		
	Sub-Total															
	Sub-Total			622.00	632.29	1,254.29		408.05	224.24		-	-	408.05	224.24		
$\vdash$	DEPOSIT WORKS		L	36.08	22.9	58.98				22.90					22.90	
	GRAND TOTAL			658.08	655.19	1,313.27	-	408.05	224.24	22.90	-		408.05	224.24	22.90	
<u>ا</u> ــــــــــــــــــــــــــــــــــــ				223.00		-,					I	I				

Notes:

In case of distribution schemes starting during the control period, information must be provided only for such schemes which are included in the approved Capital Investment Plan.
 Provide break up of Government and Private bare.
 Godes for selecting Nature of work :
 a. EHV Schemes
 Distribution schemes
 Distribution schemes
 Distribution schemes
 Distribution schemes
 Distribution schemes
 Ois Spaten improvement
 Gapator
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 SCADAPONS etc.
 Mesculeaneous

A&G Expenses Capitalised	R&M Expenses Capitalised	Interest Expenses Capitalised

### All Figures are in Rs Cr Year-wise Capital Expenditure (FY 2023-24)

		Year-wise Capital Expenditure Details of Capital Expenditure-scheme-wise																							
	Details of	f Capital Expenditure-	-scheme-wise						for Capex At th	e beginning of Y	ear			ncing for Cape	c During the Yea	ır	Exper	ises Capitalise	d at the Start o	of Year	Ex	penses Capita	lised During Ye	ar	Expe
							Equity componen Year	nt of Capex in	Capital			Equity compo in Y	nent of Capex (ear	Canital								r	· · · · · · · · ·		
S.No	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	Internal Accrual (from free reserves and surplus)	Equity Infused	Subsidies/ grants component (as applicable)	Consumer Contribution component (as applicable)	Loan Amount	Internal Accrual (from free reserves and surplus)	Equity Infused	Capital Subsidies/ grants component (as applicable)	Consumer Contribution component (as applicable)	Loan Amount	Employee Expenses Capitalised	A&G Expenses Capitalised	R&M Expenses Capitalised	Interest Expenses Capitalised	Employee Expenses Capitalised	A&G Expenses Capitalised	R&M Expenses Capitalised	Interest Expenses Capitalised	Employee Expenses Capitalised
A1	Schedule Tribe Development Scheme (P)	Distribution Schemes (System Improvement)		90.92	38.83	129.75	5	38.8	3				38.83												l.
A2	Machinery and Equipments (Plan) Motor Vehicles Infrastructure development through Electricity Duty (Plan)			517.65	69.21	586.86			69.21					69.21											
AZ	Conversion of overhead 11 KV HT network to Aerial Bunched	Distribution		517.65	69.21	586.86	, 		0.00					0.00											
	Cabling in North and South Goa Work of New 50 MVA, 220/33 KV transformer & associated works at 220KV receiving station at Ponda and erection of 220/33/11KV GIS Substation at Tuem & 220KV double circuit transmission line from PGCL Colvale to Tuem Goa	Schemes (System EHV Schemes							0.00					0.00											
	Work of 2x10 MVA, 33/11KV (indoor type) sub-station at Badem & Mandrem	Distribution Schemes	8						0.00					0.00	)										
	Design, Supply, installation, Testing and Commissioning of 33/11KV Gas insulated Substation 2x16/20MVA along with associated equipment at Patto Plaza Panaji	Distribution Schemes (System Augmentation)							0.00					0.00											
	Work of 2x10 MVA, 33/11KV Indoor type substation along with associated equipment at Karaswado Mapusa.	Distribution Schemes (System Augmentation)							0.00					0.00											
	Work of laying of underground 33KV double circuit 3Cx400 sq mm cable from Porvorim Substation to Saligao Substation.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of 2x10 MVA, 33/11KV Indoor type substation along with associated equipment's at Sal in the jurisdiction of V.P Sal in Bicholim	Distribution Schemes (System Augmentation)							0.00					0.00											
	Work of conversion of existing O/H 11KV & LT line to U/G cabling system at Cacora Curchorem Municipal area in Curchorem constituency	Distribution Schemes (System Improvement)							0.00					0.00			_								
	Work for conversion of 11KV and LT overhead lines to underground network in the left out parts of Margao Municipal areas in Margao & Fatorda	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of erection of 33 kV O/H line tapping from Mapusa II Circuit at Verla Canca to Nagoa Substation.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of S.E.T & C for replacement of 5 Nos of 110 KV SF6 Circuit breakers (MOCB) on the existing foundations with new gang operated spring.	EHV Schemes							0.00					0.00			-								
	Work of Development of V.P Ibrambur as Model Village under Sansad Adarsh Gram Yojana (SAGY)	Distribution Schemes (System Improvement)							0.00					0.00			-								
	Work of laying of 11 KV XLPE underground cable from Candolim church to Saipem village	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of conversion of existing overhead 11 KV line to underground system of feeders namely 11 KV Torda . 11 Housing Board, 11 KV Pundalik Nagar feeder and associated LT network on transforms of salat feeders and blurucation of 11 KV Torda feeder and Chogum road feeder emanating from 33'1 KIV Porvoim Sub-Station covering more protion of Porvorim Palesa area in Provvori monstituency.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of laying of 33KV S/C 3 core 400 Sq mm. XLPE underground cable from Naveli Amona 220/33KV Sub- substation to Marcel for a distance of 8.4 kms	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of linking of 33KV Velim, Canacona & MES DC feeder to 220/33KV Cuncolim Sub-Station.	Distribution Schemes (System Improvement)							0.00					0.00											
	Work of conversion of HT/LT overhead network to underground HT & LT network in Cuncolim Industrial Estate	Schemes (System							0.00					0.00											
	Work of survey, design, supply, erection and commissioning of 3x63 MVA, 220/33 KV GIS Sub-Station at Saligae along with associated interconnecting 220 KV D/C ime from 400/220 KV PGCIL Colvale Sub-Station to Saligao Sub-Station.	EHV Schemes							0.00					0.00											
	Work of conversion of existing overhead 11 KV feeders to underground system, erection of new DTCs, augmentation of DTC, eraction of additional feeders, conversion single phase to three phase, replacement of conductor, providing guarding, DP renovation etc. under Section Office Saligao and Britona								0.00					0.00											
	Work of providing 33 KV underground feeder from 110/33 KV Sub-Station to 33/11 KV Sub-Station at Nachinola	Distribution Schemes (System Improvement)							0.00					0.00											
	Change of conductor of 110 KV Ponda - Verna and Ponda - Xeldem with higher current capacity HTLS conductor.	EHV Schemes							0.00					0.00											

	Change of conductor of 33 KV Verna Sancoale line with higher current carrying capacity HTLS conductor.	Distribution Schemes (System Improvement)						0.00			0.00		
	Work of conversion of overhead network to Underground	Schemes (System						0.00			0.00		
	cabling in the balance areas of Porvorim constituency (Phase II) Conversion of the overhead HT/LT network to underground	Lonstroversont)						0.00			0.00		
	cabling in the important town of Vasco, Navelim etc.	Schemes (System											
	Erection of 33/11 Kv Sub-Stations at Navelim, Calangute, Colva.	Schemes (System Distribution						0.00			0.00		
	Conversion of overhead HT network to Aerial Bunched Cabling (Phase II)	Distribution Schemes (System Improvement)						0.00			0.00		
	Street Light EESL Payment	Distribution Schemes (Schemes for Loss Reduction)						0.00			0.00		
	Other than approved works undertaken	Distribution Schemes						0.00			0.00		
A3	Erection and Augmentation of 33/11 KV S/S line (Plan)	Distribution Schemes (System Augmentation)		12.81	10.00	22.81	10.00			10.00			
A4	Normal Development Schemes (Plan)	Distribution Schemedevelopme nt (System Augmentation)		13.74	6.00	19.74	6.00			6.00			
A5	System Improvement Schemes (Plan)	Distribution Scheme development (System improvement		100.67	6.00	106.67	6.00			6.00			
A6	Construction of staff quarters and office buildings (Plan)	Schemes) Miscellaneous		3.27	26.00	29.27	26.00			26.00			
	Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim	micoelia leous		0.00	0.00	28.21	0.00			20.00			
A7	Erection of 220 KV line from Xeldem to Cuncolim Strengthening of 220 KV Transmission Network	EHV Schemes		0.00	0.00 21.00	39.14	 0.00 21.00			21.00			
	Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem			0.00	0.00		0.00						
	Accelerated Power Development Reforms Programme Erection of 2nd 100 MVA transformer at Xeldem 220/110 KV S/S			0.00	0.00		0.00						
AS		EHV Schemes		1.18	0.00	1.18	0.00			0.00			
AS	Erection of 220 KV line from Ponda-Verna-Xeldem	Env Schemes		0.00	0.00	1.10	0.00			0.00			
	Erection of 220/110/33/11 KV Sub-Station at Soccorro Erection of 220 KV D/C line from Colvale to Soccorro			0.00	0.00		0.00						
	Erection of 110 KV D/C line from Soccorro to Kadamba			0.00	0.00		0.00						
	APDRP(State Schemes)	Distribution Schemes (System Improvement)		1.60	0.00	1.60	0.00			0.00			
A9	Restructured Accelerated Power Development and Reforms Programme Part A	Distribution Schemes (System Improvement)		37.05	5.00	42.05	5.00			5.00			
	Research training and human research development			0.00	0.00		0.00						
A10	Underground Cabling	Distribution Schemes (System Improvement)		179.96	117.50	297.46	117.50			117.50			
	(R-APDRP) during Eleventh Plan period			0.00	0.00		0.00						
A11	R-APDRP Part B / IPDS	Distribution Schemes (System Augmentation,Syste m Improvement), Metering Schemes		50.35	0.00	50.35	0.00	0.00		0.00	0.00		
A12	EHV new Transmission / Sub-Station / Capacitor banks schemes	EHV Schemes		0.70	0.00	0.70	0.00			0.00			
B1	Smartgrid Development of existing network			0.00	0.00	0.00	0.00			0.00			
B2	Sub-transmission and distribution improvement scheme	Distribution Schemes (System Improvement)		88.54	20.00	108.54	20.00			20.00			
				0.00	0.00	0.00	0.00			0.00			
	33/11 KV Gas Insulated Sub-Stations Underground Cabling of Anjuna Feeder (World Bank Funding)	Distribution		0.00	0.00	0.00	0.00			0.00			
	Additional Central Assistance to Tribal Sub-Scheme	Schomos (Sustem		0.00	0.00	0.00	0.00			0.00			
L	Public Lighting Scheme Total	Miscellaneous		0.30	0.00 319.54	0.30	0.00 250.33	69.21		 0.00 250.33	69.21		
				1113.89	318.34	1430.43	 200.33	00.21		200.00	08.21		
	New Schemes Projects with Administrative approval		_			_						-	
1	Estimate for the work of providing U/G cabling network for ring feeding 11KV Barazan feeder emanating from 1 x 6.3MVA Xelpem S/S under the jurisdiction of S/D-III, Sanguern, Div-VII, Curchorem in Sanguern Constituency.			0.00	15.00	15.00	15.00	0.00		15.00	0.00		
2	Estimate for the work of Design, Supply, Erection, Testing and Commissioning of new Outdoor Gas Insulated Hybrid Switchgears of 220KV Incomer line bays KP-I and TP-II at 220/110/33KV Ponda Sub-Station.			0.00	4.72	4.72	0.00	4.72		0.00	4.72		
3	Estimate for conversion of HT O/H lines to U/G network feeder & part of 11KV Xeldem feeder & Rivorna feeder in order to provide un-interrupted power supply to consumers connected of Bansai feeder under Curchorem Constiuency.			0.00	0.00	0.00	0.00	0.00		0.00	0.00		

4	Estimate for the work of conversion of existing 11 KV overhead lines to underground system, coming under the jurisdiction of Sub Division-III, Division XIV Verna of areas under Cortalim Constituency and Nuvem Constituency.	0.00	20.00	20.00	0.00	20.00		0.00	20.00	
5	Estimate for the work of S.E.T.C. of 1 no. of 50MVA, 110KV/ 33KV Power transformer at 110KV/ 33KV Verna S/S.	0.00	9.00	9.00	9.00	0.00		9.00	0.00	
6	Estimate for re-conductoring of existing O/H ACSR Raccon Conductor to HTLS Conductor of 33KV double circuit line from 110/33KV Kadamba S/S to 33/11KV Bambolim S/S.	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
7	Estimate for the work of conversion of existing 11KV O/H network to U/G cabling network of 11KV Bhati feeder emanating from 1 x 3.15 M/A, 33/11KV Waddem 3/S under the jurisdiction of SID-III Sanguem, Div-VII, Curchorem in Sanguem Constituency.	0.00	5.00	5.00	5.00	0.00		5.00	0.00	
8	Estimate for the work of conversion of existing 11KV 0/H network to UIG cabling network of 11KV Stangum feeder emanating from 1 x 6.3MVA, 33/11KV Xelpern S/S under the jurisdiction of S/D-III, Div-VII, Curchorem in Sanguern Constituency.	0.00	6.00	6.00	6.00	0.00		6.00	0.00	
9	Estimate for the work of conversion of existing 11KV overhead network to underground cabling network of 11KV Ponsamol feeder emanating from 1x6.3MVA, Xalpem Sub-Station under the jurisdiction of Sub Division-III, Sanguern, Division-VII, Curchorem In Sanguern Constituency.	0.00	15.00	15.00	15.00	0.00		15.00	0.00	
10	Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Mandrem feeder emanating from 33/11KV Tuem SIS to U/G System under the jurisdiction of SID-III, Agarwada, Pernem, Div-XVII, Mapusa in Mandrem Constituency.	16.00	8.00	24.00	8.00	0.00		8.00	0.00	
11	Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Sodiem feeder emanating from 33/11KV Mapusa S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem, Div-XVII, Mapusa.	0.00	7.00	7.00	7.00	0.00		7.00	0.00	
12	Estimate for the work of improvement of 11KV HT network of Undir & Durbhat feeder in Village Wadi Talaulim, Durbhat, Bandora, per to Curit & part of Sorim inhabited by the Scheduled Tribes population under Tribal Sub-Plan by converting 11KV HT O/H lines to U/G cable under the jurisdiction of S/D-I, Div-X, Ponda	5.00	9.00	14.00	9.00	0.00		9.00	0.00	
13	Estimate for the work of conversion of 11KV HT electrical network of Khadpabandh, Ponda-I, Bazar and part of Durbhat, Farmagudi & Curti feeders by converting 11KV HT O/H lines to U/G cable, under the jurisidiction of S/D-I, Div-X, Curti-Ponda.	0.00	15.00	15.00	15.00	0.00		15.00	0.00	
	Total	21.00	113.72	134.72	89.00	24.72		89.00	24.72	
	Projects Approved by EFC									
1	Conversion of existing O/H 11KV HT network to underground (U/G) cabling for Vasco Town under the Jurisdiction of Sub Division-I(U), Vasco,	0.00	25.00	25.00	0.00	25.00		0.00	25.00	
2	Conversion of existing O/H 11KV HT network to underground (U/G) cabling for Vasco Town under the Jurisdiction of Sub	0.00	25.00	25.00	0.00	25.00		0.00	25.00	
	Conversion of existing OH 111KV HT network to underground (UK); acting for Viseo Trow under the Jurisdiction OS 40 Division 41U, Vasco. Work of conversion of OH HT network to underground HT network of 33KV Xaldem Xalgenm feeder in croter to provide uninterrupted moyers upply to Salatilium water works and Domestic consumers of Bhat, Uguem, Kalay VP, areas and Barguem Municipal areas in Sangeum Constituuro; Work of conversion of existing overhead ACSR Raccon conductor to HTLS conductor of 3X KV Nessai-1 and Nessai-11 feeder from 220/33 KV Xaldem. Sub-Station AS divitive. KRC									
2	Conversion of existing OH 1110V HT network to underground (UK); cabling for Visso Town under the Jurisdiction of Sub Dhistion-UIU, Vasco, Work of convenient of OH HT network to underground HT network of 330V Xaletem - Xalpen fixeder in order to provide and the state of the state of the state of the state Domestic consumers of Disky, Uguens, Kalay VP areas and Sanguern Municipal areas in Sanguern Constituency. Work of convension of existing overhead ACSR Raccon conductor to HTLS conductor of 33 KV Nessai-1 and Nessai- feeder from 203205 VX Valetem Sub-Station to 3311VK VRC	0.00	20.00	20.00	0.00	20.00		0.00	20.00	
2	Conversion of existing OH 111KV HT network to underground UKU) calking for Viseo Town under the Jurisdiction OS but Division (ULV), vasco, Work of conversion of OH HT network to underground HT network of 33KV Xeldem Xalpen Reeder in order to provide uninterrupted Inpover supply to Salatilini water works and Domestic consumers of Revision (Vessel). Take the second gragent Manippal areas in Sangama Constitutions, Work of conversion of existing overhead ACSR Reacon conductor to HTLS conductor 43 SKV Nessel-1 and Nessel-11 Sala-Station and Banalim Sin-Station. Sala-Station and Banalim Sin-Station.	0.00	20.00	20.00	0.00	20.00		0.00	20.00	
2 3 4	Conversion of existing OH111KV HT network to underground UGV) caloting for Viseo Town under the Jurisdiction OS Sub Dhiston HU, Vasco. Work of conversion of OH HT network to underground HT network of 33KV Xaldem - Xelpem feeder in order to provide uninterrupted moyers tupply to Salatilium water works and Donestic consumers of Bhat, Uguam, Kalay VP, areas and Sangaem Muhrolgan areas in Sanguen Constituuery, Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 3X KV Nesai-1 and Nesai-1 feeder from 220/33 KV Xaldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station to 33/11KV, 2x 10 MA, Indoor type Sub-Station (Bencincia and 33/11KV, 2x 10 MA, Indoor type Sub-Station (Bencincia and 24) Works of supply, toxics host targ and commissioning of 33/11KV, 2x 10 MA, Indoor type Sub-Station (Bencincia and 24) Works of WA, Indoor type Sub-Station (Bencincia and 24) Works of supply, biosinenit Agarwada, Div	0.00	20.00	20.00	0.00	20.00 20.00 8.00		0.00	20.00	
2 3 4 5	Conversion of existing OH 111KV HT network to underground UKU; actiniting VM viseo Trow under the Jurisdiction OS 40 Dhiston UKU; basso Work of conversion of OH HT network to underground HT network of 33KV Xaldem - Xalgenn feeder in order to provide uninterrupted moyes targely to Salatimi water works and Domestic consumers of Bhau, Uguan, Xalay VF, areas and Sangeen Muhorgal areas in Sangene Constitutions, Conductor to HTLS conductor of 3X KV Nesas-1 and Nesas-1 feeder from 22033 KV Xaldem Sub-Station IS 33/11KV KRC Sub-Station and Benaulin Sub-Station IS 33/11KV KRC Sub-Station and Benaulin Sub-Station KCS Bhacoon revision of existing overhead ACSR Racoon Conversion of existing overhead ACSR Racoon Conversion of existing overhead ACSR Racoon Nork of supply, 2023 KV Xaldem Sub-Station IS 33/11KV KRC Sub-Station and Benaulin Sub-Station Work of supply, 2023 KV Xaldem Sub-Station (Station and Benaulin Sub-Station ACM Works) at MAA, Indoor type Sub-Station (Estimical and Cabling system emerging from 33/11 KV Cuncolim Substationument the stratistiction of Heat Nation ACSR Racoon cabling system emerging from 33/11 KV Cuncolim Substationation the stratistiction of Beating and commissioning of 33/11KV, 21 MAA, Indoor type Sub-Station (Estimical and Cabling system emerging from 33/11 KV Cuncolim Substationatime the stratistiction of Heat CABI Statian and Heat Nork of conversion of H1 11 Wabi Teder Into underground cabling system emerging from 33/11 KV Cuncolim Substationatiment more stratistictic and Statian and Heat Continuous, In Distance and Statian (Estimate and Heat Continuous, In Submittion, IChamane and Heat Networks) at Maximum Distance and Statian (Hamane).	0.00	20.00 20.00 8.00 27.00	20.00 20.00 8.00 52.00	0.00	20.00 20.00 8.00 27.00		0.00	20.00 20.00 8.00 27.00	
2 3 4 5 6	Convension of existing OH111KV HT network to underground UKUS; acting for Visao Town under the Jurisdiction of Sub Dhistion-HU, Vasco. Work of conversion of OH HT network to underground HT network of 33KV Xaldem Xalgenm Reeder in criter to provide uninterrupted moyes supply to Salatilium water works and Domestic consumers of Bhat, Uguem, Kaley VP, areas and Sanguem Municipal areas in Sanguem Constitution; V. Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 3X KV Nessai-1 tand Nessai-11 feeder from 220/33 KV Xaldem Sub-Station to 33/11KV KRC Sub-Station and Beaulim Sub-Station (Sub-Station (Sub-Station Care) Virk of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 3X KV Nessai-1 11 and Nessai- V feeder from 220/33 KV Xaldem Sub-Station to 33/11KV KRC Sub-Station and Beaulim Sub-Station (Sub-Station to 33/11KV, KRC Sub-Station and Beaulim Sub-Station (Sub-Station Care) Virk Ark, 21 Mandrem under Sub Division-III Ragrwada, Div XVI Mapusa. Conversion of existing OH 11 KV Balli feeder into undergound Balling system energing from 33/11 KV Cancolim MM Control and the purisdiction of Elect. OMA Sub. Dv-N, Dre- MM Care)	0.00	20.00 20.00 8.00 27.00 25.00	20.00 20.00 8.00 52.00 25.00	0.00 0.00 0.00 0.00 25.00	20.00 20.00 8.00 27.00 0.00		0.00 0.00 0.00 25.00	20.00 20.00 8.00 27.00 0.00	
2 3 4 5 6 7	Conversion of existing OH 111KV HT network to underground UKU; actiniting VM vaco Towu under the Jurisdiction Of Sub Division (ULV) vasio. Work of conversion of OH HT network to underground HT network of 33KV Xeldem Xelgen fleeder in order to provide uninterrupted In power supply to Salatimi water works and Domestic consumers of Bhalt, Uguen, Xelay VA, areas and graven Manhyad areas in Sangamic Constitutions, and the second second second second second second conductor to HTL Sconductor 43 SKV Nesas-1 and Nesas-1 H Sada Station and Benaulin Sub-Station. Nesas Market Sconductor conductor to HTL Sconductor 43 SKV Nesas-1 H and Nesas-1 Mork of conversion of existing overhead ACSR Reacon conductor to HTL Sconductor 43 SKV Nesas-1 H and Nesas-1 Mork of sub-Station and Benaulin Sub-Station. Sub-Station and Benaulin Sub-Station Nesas-Station (Bectrical and Conversion of existing on H and ACSR Reacon conductor to HTL Sconductor 43 SKV Nesas-1 H and Nesas- 1 Work of sub-Station Station (Station and Station and Benaulin Sub-Station Work of sub-Station (Station and Station and Conversion of Station (Bectrical and Conversion of existing OH 11 KV Ball feeder into undergound cabling system emerging from 3311 KV Cancer Work of conversion of OH HT networks to undergound HT continuers, in Static Odd Station (Bectrical and Conteneor) of Conversion of OH HT networks to undergound Conteneory under the jurisdiction of Station (Lichichine), Work of Conversion, Static Odd Station (Lichichine), Work of Dacign, Supply, Erection & Commissioning of 331 KV Cancer Conteneory under the jurisdiction of Station (Lichichine), Work of Dacign, Supply, Erection & Commission of 31 SKV Cancer Conversion of OH KTC Cable for Commission of 31 SKV Cancer Mork of Dacign, Supply, Erection & Commission of 31 SKV Cancer Statistics of M Mession of SKV Cable Statistics of 185 Statistics of Mession Statistics of 195 KW SKY SKY Statistics of M SKY Statistics of SKV Statistics of SKV Statistics of SKV Statistics of SKV Statistics of SKV Statistics of SKV SKY	0.00 0.00 0.00 0.00 0.00 0.00	20.00 20.00 8.00 27.00 25.00 20.00	20.00 20.00 8.00 52.00 25.00 20.00	0.00 0.00 0.00 25.00 0.00	20.00 20.00 8.00 27.00 0.00 20.00		0.00 0.00 0.00 25.00 0.00	20.00 20.00 8.00 27.00 0.00 20.00	

	Work of conversion of the existing overhead 11 KV line of Bicholim City, Assonora, Bordem and Bicholim IDC feeder										
11	emanating from 33/11 kV Bicholim Sub-station to underground	12.00	20.00	32.00	20.00	0.00			20.00	0.00	
	cable system in the jurisdiction of Sub Division-I(U), Bicholim- Goa.										
	Work of conversion of existing LT O/H line of 11KV Kakoda										
12	Feeder & 11 KV Town-II feeder into underground cabling system in Curchorem Constituency.	12.00	32.00	44.00	0.00	32.00			0.00	32.00	
	Work of conversion of existing 33KV SC overhead Virdi II feeder										
13	to Double Circuit line with HTLS Conductor from 220 KV Amona Sub Station, under Sub Division – I(U), Bicholim.	0.00	14.00	14.00	0.00	14.00			0.00	14.00	
	Sub Station, under Sub Division – I(U), Bicholim.	54.00	286.00	340.00	45.00	241.00			45.00	241.00	
		04.00	200.00	040.00	40.00	241.00			40.00	241.00	
	Projects tendered (To start next year) Tender No. 19(2020-21)/CSC: Tender for the Work of										
	conversion of 11KV overhead network of Torla feeder to 11KV										
1	underground system along the road side from 33/11KV Shiroda substation under Sub Division II, Div. X, Ponda in Shiroda	1.50	2.50	4.00	0.00	2.50			0.00	2.50	
	constituency										
2	Tender No. 22(2020-21)/CSC: Work of conversion of 11KV S/C OH St. Cruz feeder to UG network by laving 11KV. 3Core										
2	300sq.mm. aluminium armoured XLPE cable for a distance of 14.5 Kms along with associated equipments.	6.00	2.00	8.00	0.00	2.00			0.00	2.00	
	Tender No. 23(2020-21)/CSC: Work for conversion of 11KV SC										
3	OH Diwar feeder, Diwar and Chorao section in the jurisdiction of Sub Division-I. Division-I. Panaii.	0.00	12.00	12.00	0.00	12.00			0.00	12.00	
	Tender No. 24(2020-21)/CSC: Work of Supply, Laying, Testing	-									
4	& Commissioning of 33KV Core 400 sg.mm. XLPE U/G cable	2.00	7.00	9.00	0.00	7.00			0.00	7.00	
	from 220/33KV Amona S/S for providing alternate power supply to 33/11KV Sankhali S/S.										
-	Tender No. 25(2020-21)/CSC: Work of Supply and Laying of	1.00	4.20	0.00		1.20			0.00	4.20	
5	33KV, 3C X 400sq.mm. XLPE Aluminium cable from Sonshi to Amona S/S.	1.00	1.30	2.30	0.00	1.30			0.00	1.30	
	Tender No. 26 (2020-21)/CSC: Work of conversion of 11KV S/C										
6	O/H Merces feeder to UG network by laying 11KV, 3Core 300sq.mm. Aluminium Armoured XLPE cable for a distance of	5.00	2.00	7.00	0.00	2.00			0.00	2.00	
	13Kms along with associated equipments.										
	Tender No. 27(2020-21)/CSC: Work of conversion of existing 11KV overhead Industry feeder, 11KV cable Industry feeder and										
7	33KV Unichem feeder to underground system and providing	3.00	5.00	8.00	0.00	5.00			0.00	5.00	
	new 11KV feeder at Pilerne Industrial Estate, Pilerne under Sub Division-II, Porvorim.										
	Tender No. 29(2020-21)/CSC: Work of conversion of overhead										
8	11KV Industry-IV feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol Constituency	0.00	2.30	2.30	0.00	2.30			0.00	2.30	
	under Sub Division-III, Division-X, Ponda.										
	Tender No. 30(2020-21)/CSC: Work of conversion of overhead										
9	11KV of Shiroda feeder to 11KV underground system along the road side from 33/11KV Bethora Sub-Station in Shiroda	0.00	2.74	2.74	0.00	2.74			0.00	2.74	
	Constituency under Sub Division-II, Division-X, Ponda.										
	Tender No. 33(20-21)/CSC: Tender for the work of conversion										
10	of 11KV Industry-VIVIII feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol	0.00	5.00	5.00	0.00	5.00			0.00	5.00	
	along the road from 33/11KV Kundai Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.										
	Tender No. 37(20-21)/CSC: Tender for the work of conversion										
11	of overhead 11KV Sulcorna feeder to underground network from 33/11KVQuinamol, Rivona Sub-Station to Devrem transformer	0.00	8.00	8.00	0.00	8.00			0.00	8.00	
**	center under the jurisdiction of Sub Division-II, Division-VII,	0.00	0.00	0.00	0.00	0.00			0.00	0.00	
	Curchorem.	 						 			 
12	Tender No. 38(20-21)/CSC: Tender for the work of conversion of overhead 11KV Mollem feeder to underground network under	2.00	12.00	14.00	0.00	12 00			0.00	12 00	
	the jurisdiction of Sub Division-IV, Division-VII, Curchorem.	2.00	12.00	14.00	0.00	12.00			0.00	12.00	
	Tender No. 39(20-21)/CSC: Tender for the work of conversion	1									
13	of overhead 11KV Dhat feeder to underground network under	0.00	11.00	11.00	0.00	11.00			0.00	11.00	
	the jurisdiction of Sub Division-IV, Division-VII, Curchorem.	 1									
l	Tender No. 40(20-21)/CSC: Tender for the work of conversion of overhead 11KV Panchawadi feeder to underground network										
14	under the jurisdiction of Sub Division-IV, Division-VII,	2.00	10.00	12.00	0.00	10.00			0.00	10.00	
-	Curchorem. Tender No. 07(2021-22)/CSC: Tender for the Work of	 1									
15	conversion of existing 33KV MES single circuit line to double	3.40	0.00	3.40	0.00	0.00			0.00	0.00	
	circuit line emanating from 220/33KV Cuncolim substation to 33/11KV KRC substation under Div. IV, Margao										
	Tender No. 10(2021-22)/CSC: Work of Supply, Erection,	 1									
16	Testing and Commissioning 11KV 3Core, XLPE armoured Cable of size 300 Sq. mm. for conversion of existing overhead	10.00	8.00	18.00	0.00	8.00			0.00	8.00	
	11KV Morjim Feeder to underground system under the jurisdiction of Sub-Division-III, Agarwada, Div XVII - Mapusa.	1									
<u> </u>	Jurisdiction of Sub-Division-III, Agarwada, Div XVII - Mapusa. Tender No. 12(2021-22)/CSC: Supply, Laving, Testing and	 +									
17	Commissioning of 33KV, 3 Core, 400 Sq.mm, XLPE cable	0.00	15.00	15.00	0.00	15.00			0.00	15.00	
17	double circuits (Velim-I & Velim-II) from 220/33KV Cuncolim substation to 33/11KV Velim substation	0.00	15.00	15.00	0.00	15.00			0.00	15.00	
	Tender No. 34(20-21)/CSC: Tender for the work of conversion	 1									
1.0	of 11KV overhead network of Borim feeder to 11KV underground system along the road side from 33/11KV Shiroda Sub-Station	0.00	10.00	10.00	0.00	10.00			0.00	10.00	
10	in Shiroda Constituency under Sub Division-II, Division-X,	0.00	10.00	10.00	0.00	10.00			0.00	10.00	
I	Ponda.	 1	l	I	I	I					

19	Fender No. 35(20-21)CSC: Tender for the work of conversion of 11KV overhead network of Nirankal feeder to 11KV underground system along the road side from 33/11KV Bethora Sub-Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.	1.50	2.00	3.50		0.00	2.00				0.00	2.00		
	Total	37.40	117.84	155.24		0.00	117.84				0.00	117.84		
	REVAMPED Distriution Projects													
1	Smart Meter and AMI	0.00	70.56	70.56		59.98	10.58				59.98	10.58		
2	SCADA upgradation, cabling connection, infra develipement, mordernization	0.00	170.00	170.00		68.00	102.00				68.00	102.00		
3	Training and Placement	0.00	0.00	0.00		0.00	0.00				0.00	0.00		
	Total	0.00	240.56	240.56		127.98	112.58				127.98	112.58		
	Other Schemes													
1	Saligao 3/63 MVA 220X33 kV S/s at Saligao & Associated D/C Lines	0.00	125.00	125.00		0.00	125.00				0.00	125.00		
2	Verna 220/110/33 kV	0.00	100.00	100.00		0.00					0.00	100.00		
3	Upgradation of PONDA EHV S/s project	5.00	25.00	30.00		0.00					0.00	25.00		
4	Tuem Project	20.00	22.00	42.00		22.00					22.00	0.00		
5	Over Head to Underground Cuncholim Conocona	0.00	0.00	0.00		0.00	0.00				0.00	0.00		
6	Xeldom S/s (220/33 63 MVA T/F)	0.00	0.00	0.00		0.00	0.00				0.00	0.00		
	Total	25.00	272.00	297.00		22.00	250.00				22.00	250.00		
	Sub-Total													
	Sub-Total	1,254.29	1,349.66	2,603.95		534.31	815.35	-	-	-	534.31	815.35		
-	DEPOSIT WORKS	58.98	18.90	77.88		0.00		18.90					18.90	
	GRAND TOTAL	1,313.27	1,368.56	2,681.83	-	534.31	815.35	18.90	-	-	534.31	815.35	18.90	

### Notes:

I. In case of distribution schemes starting during the control period, information must be provided only for such schemes which are included in the approved Capital Investment Plan.
 P. Provide break up of Government and Private baree.
 Societ for eastering Nature of work :
 Bethy Schemes
 Distribution schemes
 Distribution schemes
 Distribution schemes
 Distribution schemes
 Distribution schemes
 Observation schemes
 Distribution schemes
 Observation schemes
 Comparement
 Observation schemes
 Comparement
 Comparison
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 Comparison
 C

ises capitalise	d at the End of	Year
A&G Expenses Capitalised	R&M Expenses Capitalised	Interest Expenses Capitalised

# Capital Works in Progress

					FY 20	16-17					FY 2017-18					FY 2018-19					FY 2019-20			
s.	No.	Particulars	Opening Balance	Additions	Capitalisatio n	Adjustment s	Other Entries in CWIP*	Closing Balance	Opening Balance	Additions	Capitalisatio n	Adjustment s	Closing Balance	Opening Balance	Additions	Capitalisatio n	Adjustment s	Closing Balance	Opening Balance	Additions	Capitalisatio n	Adjustment s		Opening Balance
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	1 E	ED-Goa	511.07	163.32	101.44		18.32	591.27	591.27	103.36	27.55	-66.12	600.97	600.97	158.86	42.01	11.43	729.25	729.25	211.04	127.18	22.43	835.54	835.54

\* Other entries : Material lying at site, advance to contractor/Supplier etc

(the data was required in scheme-wise. Since the data is not available in scheme-wise consolidated data is provided)

Note :

1. The above information is to be provided in consolidated form Distribution Licensee.

(₹ crore)

	FY 2020-21					FY 2021-22					FY 2022-23					FY 2023-24		
Additions	Capitalisation	Adjustments	Closing Balance	Opening Balance	Additions	Capitalisation	Adjustments	Closing Balance	Opening Balance	Additions	Capitalisation	Adjustments	Closing Balance	Opening Balance	Additions	Capitalisation	Adjustments	Closing Balance
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
165.65	51.90	-19.56	929.73	929.73	245.31	165.19		1,009.85	1,009.85	632.29	401.62		1,240.52	1,240.52	1,368.56	771.95		1,837.13

### ELECTRICITY DEPARTMENT - GOA BUSINESS PLAN FOR THE PERIOD 2022-23 1 CAPITAL EXPENDITURE PLAN AND CAPITALISA

										CAPEX		
S.No	Name of scheme	REF	FY 2019-20	FY 2020-21	FY2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total Capex of New Works	FY 2022-23	FY 2023-24	FY 2024-25
Existing Sci	hemes	-										
A1	Schedule Tribe Development Scheme (P)		5.21	26.90	17.57	36.44	6.00	-	37.63	4.80	32.83	-
A2	Infrastructure development through Electricity Duty (Plan)		155.99	89.28	130.34	129.04	39.21	-	43.00	13.00	30.00	
	Erection and Augmentation of 33/11 KV S/S line (Plan)		0.46	4.16	3.19	-	-	-	20.00		10.00	
A4	Normal Development Schemes (Plan)		2.04	2.92	2.78	-	-	-	18.00	6.00	6.00	6.00
A5	System Improvement Schemes (Plan)		18.77	22.41	25.72	28.77	-	-	17.00	5.00	6.00	6.00
A6	Construction of staff quarters and office buildings (Plan)		0.38	0.30	0.59		-	-	43.00	2.00	26.00	15.00
A7	Strengthening of 220 KV Transmission Network		-	1.39	5.01	10.74	14.00	-	8.00	1.00	7.00	-
A8	Erection of 220/110/33/11 KV Sub-Station at Verna (New)			1.18								
A9	Restructured Accelerated Power Development and Reforms Programme Part A		2.64	7.96	16.45	10.00	5.00	5.00				
A10	Underground Cabling		-	7.04	10.82	162.10	117.50	-				
A11	R-APDRP Part B / IPDS		25.08	0.01	23.26	2.00	-	-				
A12	EHV new Transmission / Sub-Station / Capacitor banks schemes		0.37	0.33	-							
B1	Smartgrid Development of existing network		-	-	-							-
B2	Sub-transmission and distribution improvement scheme		-	-	9.54	79.00	20.00	-				
	Total	Α	211.04	165.65	245.31	458.09	201.71	5.00	186.63	36.80	117.83	32.00
New Sch	emes											

Projects												
1	Estimate for the work of providing U/G cabling network for ring feeding 11KV Barazan feeder emanating from 1 x 6.3MVA Xelpem S/S under the jurisdiction of S/D-III, Sanguern, Div-VII, Curchorem in Sanguern Constituency.								27.73		15.00	12.73
2	Estimate for the work of Design, Supply, Erection, Testing and Commissioning of new Outdoor Gas insulated Hybrid Switchgears of 220KV incomer line bays KP-I and TP-II at 220/110/33KV Ponda Sub- Station.								4.72		4.72	0
4	Estimate for the work of conversion of existing 11 KV overhead lines to underground system, coming under the jurisdiction of Sub Division- III, Division XV veran of areas under Cortalim Constituency and Nuvem Constituency.								33.52		20.00	13.52
5	Estimate for the work of S.E.T.C. of 1 no. of 50MVA, 110KV/ 33KV Power transformer at 110KV/ 33KV Verna S/S.								10.50		9.00	1.5
7	Estimate for the work of conversion of existing11KV O/H network to U/G cabling network of 11KV Bhati feeder emanating from 1 x 3.15 MVA, 33/11KV Waddem S/S under the jurisdiction of S/D-III Sanguem, Div-VII, Curchorem in Sanguem Constituency.								7.44		5.00	2.44
8	Estimate for the work of conversion of existing 11KV O/H network to U/G cabling network of 11XV Sanguen feeder emanating from 1 x 6.3MVA 3311VL Vyelem /S J under the juridiction of s/D-III, DI-VII, Curchorem in Sanguem Constituency. Estimate for the work of conversion of existing 11KV overhead network to underground cabling network of 11XV Ponsanol feeder emanating from 14.5.3MVA, Relpem Sub-Station under the jurisdiction of Sub Division-IV, Sanguem, Division VI, Ucurchorem in Sanguem	В							9.81 35.00		6.00	3.81
10	Constituency, in angeoin which in the distribution angeoin Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XIPE arrowed cable of size 3006 gmm. for conversion of existing (VH Wandrem feeder emanting from 371KV Tuem (SF to U/G system under the jurisdiction of S/D-III, Agarwada, Perenem, Dix-XVII, Magus in Mandrem Constituency.								24.00	16.00	8.00	
11	Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sg.mm. for conversion of existing O/H 11KV Solidem Feeder emanating from 33/11KV Mapusa S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Perrem, Di-X-VII, Mapusa.										7.00	3.00
12	Estimate for the work of improvement of 11KV HT network of Undir & Durbhat feeder in Village Wadi Talaulim, Durbhat, Bandora, pert of Curti & part of Borim inhabited by the Scheduled Tribes population under Tribal Sub-Plan by converting 11KV HT O/H lines to U/G cable under the jurisdiction of S/D-J, by-X, Ponda								14.00	5.00	9.00	0
13	Estimate for the work of conversion of 11KV HT electrical network of Khadpabandh, Ponda-J, Bazar and part of Durbhat, Farmagudi & Curti feeders by converting 11KV HT O/H lines to U/G cable, under the jurisidiction of S/D-J, Div-X, Curti-Ponda. Total	в							23.00	21.00	15.00 113.72	8
	Idai	в	-	-	-	-	-	•	105.72	21.00	113.72	03.00
Projects	Approved by EFC Conversion of existing O/H 11KV HT network to underground (U/G) cabling for Vasco Town under the Jurisdiction of Sub Division-I(U),								47.00		25.00	22
	Vasco,											
2	Work of conversion of 0/H HT network to underground HT network of 33XV Xeldem - Xelpen feeder in order to provide uninterrupted m power supply to Salaulim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency.								37.00		20.00	17
2	of 33V Valdem - Xelpem feeder in order to provide uninterrupted m power supply DS shallim water works and Domest consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency. Work of conversion of existing overhead ACSR Racson conductor to HTLS conductor of 33 KV Nessai-1 and Nessai-11 feeder from 220/33 KV Xeldem Sub-Station to 33/11KV KR Sub-Station and Benaulim Sub- Station.								37.00 29.00		20.00	9
	of 33XV Xeldem - Xelgem feeder in order to provide uninterrupted m power supply to Salalim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency. Work of conversion of existing overfhead ACSR Racoon conductor to HTLS conductor of 33 XV Nessai-1 and Nessai-11 feeder from 220/33 V Xeldem Sub-Station to 3311XV Net Sub-Station and Benaulim Sub-											
3	of 33XV Xeldem - Xelgem feeder in order to provide uninterrupted m power supply to Salalim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency. Work of conversion of existing overfhead ACSR Racoon conductor to HTIS conductor of 33 KV Nessai-1 and Nessai-11 feeder from 220/33 V Xeldem Sub-Stato to 33/11XV KRC Sub-Station and Benaulim Sub- Station. Mork of conversion of existing overfhead ACSR Racoon conductor to HTIS conductor of 33 KV Nessai-111 and Nessai-1V feeder from 22/33 KV Xeldem Sub-Station to 33/11XV KRC Sub-Station and								29.00	25.00	20.00	9
3	of 33XV Xeldem - Xelgem feeder in order to provide uninterrupted m power supply to Salalim water works and Domestic consumers of Bhat, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency. Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 XV Nessal-1 and Nessal-11 feeder from 220/33 V Xeldem Sub-Station to 33/11XV KRC Sub-Station and Benaulim Sub- Station. Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessal-111 and Nessal-1V feeder from 220/33 VX Veleta Sub-Station to 33/11XV KRC Sub-Station and Benaulim Sub-Station. Work of supply, erection, testing and commissioning of 33/11XV, XP, 34								29.00 28.00	25.00	20.00	9
3 4 5	of 33V X Valdem - Xelpem feeder in order to provide uninterrupted m power supply to Salalim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency. Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-1 and Nessai-11 feeder from 220/33 V Xeldem Sub-Saton to 33/11 KV KCS ub-Station and Benaulim Sub- Station. Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-111 and Nessai-1V feeder from 220/33 KV Xeldem Sub-Station to 33/11 KV KCS Sub-Station and Benaulim Sub-Station. Work of supply, erection, testing and commissioning of 33/11 kV, 2x Mandrem under Sub Division! II.Rarwada, Div XVII Mapusa. Conversion of existing O/H 11 kV Ball feeder into undergound cabling system emerging from 331 kV V Control Substationunder the								29.00 28.00 52.00	25.00	20.00 8.00 27.00	20
3 4 5 6	of 3302 Valdem - Xelpem Feder in order to provide uninterrupted m power supply to Salaulm water works and Domestic consumers of Bhat, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguen Constituency. Work of conversion of existing overhead ACSR Racoon conductor to HTI S conductor of 33 KV Nessai-1 and Nessai-11 feeder from 220/33 VX Addem Sub-Sation to 33/12/KV KES ub-Station and Benalim Sub- Station. Work of conversion of existing overhead ACSR Racoon conductor to HTI S conductor of 33 KV Nessai-111 and Nessai-11 Veeder from 20/33 KV Addem Sub-Station to 33/11/KV KC Sub-Station and Benalim Sub- Station. Work of supply-exection, testing and commissioning of 33/11KV, 2x 10 MVA, Indoor type Sub-Station (Electrical and Civil Works) at Mandrem under Sub Division-III Aganvada, Div XVII Mapusa. Conversion of existing O/H 11 K Ball Feder Into undergound cabling system merging from 33/11 KV Causel Mall feder Into undergound cabling. Work of compression of O/H 11 K VBall Feder Into undergound HT network in Chinchnium, Dharmapur & Sarcora area of Velim Contituency under the jurisdiction of Subdivision-WI	с							29.00 28.00 52.00 55.00	25.00	20.00 8.00 27.00 25.00	9 20 30
3 4 5 6 7	of 330 V Xeldem - Xelgem feeder in order to provide uninterrupted m power supply to Salalim water works and Domestic consumers of Bhat, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency. Work of conversion of existing overhead ACSR Raccon conductor to HTLS conductor of 33 KV Nessai-1 and Nessai-11 feeder from 220/33 V Xeldem Sub-Station to 33/11/KV KES sub-Station and Benaulin Sub- Station. Work of conversion of existing overhead ACSR Raccon conductor to HTLS conductor of 33 KV Nessai-111 and Nessai-1V feeder from 220/31 KV Xeldem Sub-Station to 33/11/KV KES Sub-Station and Benaulin Sub-Station. Work of sub-Station. Sub-Station and Xelf Xelf Sub-Station and Benaulin Sub-Station. Work of sub-Station. Sub-Station (Electrical and Coll Works) at Mandrem under Sub Division-III Agarwada, Div XVII Mapusa. Conversion of existing (7)H 11 KV Buil Texder into undergound cabling system emerging from 33/11 LV Cuncolim. Sub-tationunder the jurisdiction of Elect. Sub-Station. Librarino. Work of conversion of Subrits. Univ. Work Wilem Contluency under the jurisdiction of Subrits. Univ. Work of Conversion of Subrits. Work of Conversion of Subrits.	c							29.00 28.00 52.00 55.00 33.00		20.00 8.00 27.00 25.00 20.00	9 20 30
3 4 5 6 7 8	of 33U Xieldem - Xelpem feeder in order to provide uninterrupted m power supply to Salahim water works and Domestic consumers of Bhati, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguem Constituency. Work of conversion of exiting overhead ACR Bacoon conductor to 10 Science and a 13 KP Netscal. Table Netscal: 15 feeder 10 mor 20/3 H1 Xieldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub- Station. Work of conversion of exiting averhead ACR Bacoon conductor to 141 Science and the 31 KP Netscal. Table Netscal: 14 feeder from 20/3 H1 Xieldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub- Station. Work of supply, erection, testing and commissioning of 33/11KV, 24 10 MXA, Indoor type Sub-Station (Electrical and CoWI Works) at Mandrem under Sub Division-III Agranda, Div XVI Mapusa. Conversion of existing ()/H 11 kV Ball feeder into undergound cabling system emerging from 33/11 kV Cuncolim Substationunder the juridiction of Flect. GMK Sub. Div/X-10, VarXI, Cuncolim. Work of conversion of O/H HT network to undergorund HT network in Chinchnium, Dhamapura & Sarzon area of Velim Continency 400 Sq. mm XIPE Cable from Cable from Ponds Sub-Station to 400 Sq. mm XIPE Cable from Cable from Ponds Sub-Station to mater the jurisdiction of Electrical and 11/2 Core. 830 Sub. Div/X-10, Maconim. Work of conversion of Cable from Ponds Sub-Stations for Managam XIPE Cable from Cable from Ponds Sub-Station to mater the jurisdiction of Electrical State. Work of conversion of Existing 11 V/ VIM overhead lines to undergorund cabling network for 11 KV Mandgo feeder, 11 KV Masting feeder, 11 KV Masting forma 31/1 LV Nangao. State Sub-Station and providing freadming fread freadming from 31/3 Core. 850 Subdivision II, Navalin feeder, emaning from Sub-State State.	c							29.00 28.00 52.00 55.00 33.00 25.00		20.00 8.00 27.00 25.00 20.00	30
3 4 5 6 7 8 9	of 33U Xieldem - Xelpem feeder in order to provide uninterrupted m power supply to Salahim water works and Domestic consumers of Bhati, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguem Constituency. Work of conversion of exiting overhead ACR Bacoon conductor to 151 Scienture of 31 Xi N Kessal 1 Hotes Histore (http: Scienture of 31 Xi N Kessal 1 Hotes (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi N Kessal 1 Hotes) (http: Scienture of 31 Xi Ni Kessal 1 Hotes) (http: Scienture of 31 Xi Ni Kessal 1 Hotes) (http: Scienture of 31 Xi Ni Kessal 1 Hotes) (http: Scienture of 31 Xi Ni Kessal 1 Hotes) (http: Scienture of 31 Xi Ni Kessal 1 Hotes) (http: Scienture of 31 Xi Ni Kessal 1 Hotes) (http: Scienture of 31 Xi Ni Kessal 1 Hotes) (http: Scienture of 20 Xi Ni Kessal 1 Ni Xi	c							29.00 28.00 52.00 33.00 25.00 65.00		20.00 8.00 27.00 25.00 20.00 30.00	9 20 30 13 35
3 4 5 6 7 8 8 9 10	of 33U Xvalem - Xelpem feeder in order to provide uninterrupted mover supply to Salalim water works and Domstic consumers of Bhat, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguen Constituency. Work of conversion of existing overhead ACSR Racoon conductor to the VIIS conductor of 33 W Ness-11 and Ness-11 Heeder from 220/33 W/ Xvalem Sala Salawa and Salawa a	c							29.00 28.00 52.00 33.00 25.00 65.00 49.00	5.00	20.00 8.00 27.00 25.00 20.00 30.00 25.00	9 20 30 13 35
3 4 5 6 7 8 8 9 10 11	of 33U Xeldem - Xelgem feeder in order to provide uninterrupted m power supply to Salahim water works and Domestic consumers of Bhati, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguen Constituency. Work of conversion of existing overhead ACSR Baccon conductor to th VIS conductor of 33 W Nessa's 11 and who from 220/33 KV Xeldem Sub-Station to 33/11KV KRC Sub-Station and Benaulin Sub- Station. Work of conversion of existing and commissioning of 33/11kV, 24 10 MXA, Indioor type Sub-Station (Electrical and Cwill Works) at Mandrem under Sub Division il Agranda, Div XVI Mapua. Conversion of existing (VI 11 kV Ball) Researl V Teeder Area Mandrem under Sub-Station (Electrical and Cwill Works) at Mandrem under Sub-Division (Electrical and Sub-Division (Electrical Work of Conversion of Existing 11 KV (HT) owerhead lines to underground cabling network for 11 KV Mandog feeder, 11 KV MS Labeler Conductor with HTS ACCC DIVEC Conductor from Ponda 22044 Conductor with HTS ACCC DIVEC Conductor from Ponda 22044 Conductor with HTS ACCC DIVEC Conductor from Ponda 22045 Conductor with HTS ACC	c							23.00 28.00 55.00 33.00 25.00 65.00 49.00 32.00	5.00	20.00 8.00 27.00 25.00 20.00 30.00 25.00 25.00	9 20 30 13 35 24 20

Projects	tendered (To start next year)											
1	Tender No. 19(2020-21)/CSC: Tender for the Work of conversion of LIXV overhead network of Toria feeder to 11XV underground system along the road side from 33/11KV Shiroda substation under Sub Division II, Div. X, Ponda in Shiroda constituency								4.00	1.5	2.5	
2	Tender No. 22(2020-21)/CSC: Work of conversion of 11KV S/C OH St. Cruz feeder to UG network by laying 11KV, 3Core 300sq.mm. aluminium amoured XUPE cable for a distance of 14.5 Kms along with associated equipments.								8.00	6	2	
4	Tender No. 24(2020-21)/CSC: Work of Supply, Laying, Testing & Commissioning of 33KV Core 400 sq.mm. XLPE U/G cable from 220/33KV Amona S/S for providing alternate power supply to 33/11KV Sankhali S/S.								9.00	2	7	
5	Tender No. 25(2020-21)/CSC: Work of Supply and Laying of 33KV, 3C X 400sq.mm. XLPE Aluminium cable from Sonshi to Amona S/S.								2.30	1	1.3	
6	Tender No. 26 (2020-21)/CSC: Work of conversion of 11KV S/C O/H Merces Feeder to UG network by laying 11KV, 3Core 300sq.mm. Aluminium Arwoured X/PE cable for a distance of 13Kms along with associated equipments.								7.00	5	2	
7	Tender No. 27(2020-21)/CSC: Work of conversion of existing 11KV overhead Industry feeder, 11KV cable Industry feeder and 33KV Unichem feeder to underground system and providing new 11KV feeder at Plierne Industrial Estate, Plierne under Sub Division-II, Porvorim.								8.00	3	5	
8	Tender No. 29(2020-21)/CSC: Work of conversion of overhead 11KV industry-IV feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol Constituency under Sub Division- III, Division-X, Ponda.								2.30		2.3	
9	Tender No. 30(2020-21)/CSC: Work of conversion of overhead 11KV of Shiroda feeder to 11KV underground system along the road side from 33/11KV Bethora Sub-Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.								2.74		2.74	
10	Tender No. 33(20-21)/CSC: Tender for the work of conversion of 11KV Industry-I/I/III (edder to 11KV underground system along the road from 33(11KV Kundal Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.	D							5.00		5	
11	Tender No. 37(20-21)/CSC: Tender for the work of conversion of overhead 11KV Sulcorna feeder to underground network from 33/LIKVQuimon0, Rivona Sub-Station to Devent transformer center under the jurisdiction of Sub Division-II, Division-VII, Curchorem.								12.00		8	4
12	Tender No. 38(20-21)/CSC: Tender for the work of conversion of overhead 11KV Mollem feeder to underground network under the jurisdiction of Sub Division-IV, Division-VII, Curchorem.								14.00	2	12	
13	Tender No. 39(20-21)/CSC: Tender for the work of conversion of overhead 11KV Dhat feeder to underground network under the jurisdiction of Sub Division-IV, Division-VII, Curchorem.								11.00		11	
14	Tender No. 40(20-21)/CSC: Tender for the work of conversion of overhead 11KV Panchawadi feeder to underground network under the jurisdiction of Sub Division-IV, Division-VII, Curchorem.								12.00	2	10	
15	Tender No. 07(2021-22)/CSC: Tender for the Work of conversion of existing 33KV MES single circuit line to double circuit line emanating from 220/33KV Cuncolim substation to 33/11KV KRC substation under Div. IV, Margao								3.40	3.4		
16	Tender No. 10(2021-22)/CSC: Work of Supply, Erection, Testing and Commissioning 11XV 3Core, XIPE armoured Cable of size 300 Sq. mm. for conversion of existing overhead 11KV Morjim Feeder to underground system under the jurisdiction of Sub-Division-III, Agarwada, Div XVII - Mapusa.								18.00	10	8	
17	Tender No. 12(2021-22)/CSC: Supply, Laying, Testing and Commissioning of 33KV, 3 Core, 400 Sq.mm. XLPE cable double circuits (Velm-1 & Velim-II) from 220/33KV Cuncolim substation to 33/11KV Velim substation								26.00		15	11
18	Tender No. 34(20-21)/CSC: Tender for the work of conversion of 11KV overhead network of Borim feeder to 11KV underground system along the road side from 33/11kV Shirda Sub-Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.								10.00		10.00	
19	Tender No. 35(20-21)/CSC: Tender for the work of conversion of 11KV overhead network of Nirankal feeder to 11KV underground system along the road side from 32/11KV Bethora Sub-Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.								3.50	1.5	2	
	Total	D	-	-	-	-	-		177.24	37.40	117.84	22.00
REVAMPEE 1	Distribution Projects Smart Meter and AMI		1	1		1			80.00		70.56	100.8
2	SCADA upgradation, cabling connection, infra develipement, mordernization	E							750.00		170	73.43
3	Training and Placement Total Total	E							100.00 930.00		240.56	40 214.23
Otherfol		Ľ.							330.00	-	240.36	214.23
Other Sche	mes Saligao 3/63 MVA 220X33 kV S/s at Saligao & Associated D/C Lines								274.20		125	200
2	Verna 220/110/33 kV								200.00		100	200
3	Upgradation of PONDA EHV S/s project Tuem Project	F							29.20 45.00	5 20	25 22	20
5	Over Head to Underground Cuncholim Conocona Xeldom S/s (220/33 63 MVA T/F)	]							-			
-	Sub-Total	F G=A+B+C	211.04	165.65	245.31	458.09	201.71	5.00	548.40 2,561.99	25.00 174.20	272.00 1,147.95	420.00 943.23
									2,301.39	1/4.20	1,147.95	943.23
	DEPOSIT WORKS	н	0	0	36.08	22.9		0	-			
L	GRAND TOTAL	I=G+H	211.04	165.65	281.39	480.99	220.61	5.00	2,561.99	174.20	1,147.95	943.23

# TO 2024-25

										CAPITALISA	TION	
Total Capex of Spill + New Works	FY 2022-23	FY 2023-24	FY 2024-25	FY 2019-20	FY 2020-21	FY2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2022-23	FY 2023-24	FY 2024-25
80.07	41.24	38.83		3.16	10.50		60.90			4.80	32.83	-
211.25	142.04	69.21	-	68.94	14.68	59.45	103.74	20.20	-	-	43.00	-
20.00	5.00	10.00	5.00	1.32	0.70		-	-	-	5.00	10.00	5.00
18.00	6.00	6.00	6.00	9.63	39.44	43.33				6.00	6.00	6.00
45.77	33.77	6.00	6.00	15.00	6.00	12.84	26.30	-	-	5.00	6.00	6.00
43.00	2.00	26.00	15.00	0.37		-	-	-	-	2.00	5.00	21.00
32.74	11.74	21.00	-	-	3.35	0.22	10.74	14.00	-	1.00	7.00	-
-	-	-	-	-								
20.00	10.00	5.00	5.00	2.64								
279.60	162.10	117.50	-	0.24	4.57	2.63	54.54	229.50	-			
2.00	2.00	-	-	25.08		38.50	18.00	-	-			
-	-	-	-	0.37								
-	-	-	-									
99.00	79.00	20.00	-	-	-		89.00	20.00	-			
851.43	494.89	319.54	37.00	127.14	79.39	165.19	363.42	295.80	-	23.80	109.83	38.00

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47.00        25.00       22.00	8.00	15.00								8.00	15.00	-	23.00
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	24 24 52 33 65 45	25								17.00 9.00 20.00 - 30.00 13.00 - 35.00 24.00	20.00 20.00 27.00 25.00 20.00 30.00 25.00	25.00	37.00 29.00 28.00 52.00 33.00 25.00 65.00 49.00
530.00 54.00 286.00 190.00 153.00 377.00	21 21 55 33	25								17.00 9.00 20.00 - 30.00 13.00 - 35.00 24.00 -	20.00 20.00 27.00 25.00 20.00 30.00 25.00 25.00		37.00 29.00 28.00 52.00 33.00 25.00 65.00 49.00 32.00
	22	25								17.00 9.00 - 30.00 13.00 - 35.00 24.00 - -	20.00 20.00 27.00 25.00 20.00 20.00 30.00 25.00 20.00 20.00 30.00	- - 25.00 - - 5.00 - - - - - - - - - - - - - - - - - 	37.00 29.00 28.00 52.00 33.00 25.00 65.00 49.00 32.00 44.00

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1         1	9.00	2.00	7.00	-								9	
1         1													
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140         2.00         12.00													
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1200 $2.00$ $1000$ $1.0$ $1.00$ <													
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18.00         10.00         8.00  .													
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3.50       1.50       2.00  <													
3.50       1.50       2.00  <													
177.28         77.24         177.84         177.95         155.91         155.91         156.92         138.20         777.95         146.23           171.90         155.91         155.91         156.92         156.92         156.92         156.92         156.92	10.00	-	10.00	-								10	
177.28         77.24         177.84         177.95         155.91         155.91         156.92         138.20         777.95         146.23           171.90         155.91         155.91         156.92         156.92         156.92         156.92         156.92													
177.28         77.24         177.84         177.95         155.91         155.91         156.92         138.20         777.95         146.23           171.90         155.91         155.91         156.92         156.92         156.92         156.92         156.92													
171.36         -         70.56         100.80         -         -         70.56         100         100         -         70.56         100         100         -         70.56         100         100         -         70.56         100         100         -         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.57         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100.56         70.56         100.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56	3.50	1.50	2.00	-								3.5	
171.36         -         70.56         100.80         -         -         70.56         100         100         -         70.56         100         100         -         70.56         100         100         -         70.56         100         100         -         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.57         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100         70.56         100.56         70.56         100.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56         70.56													
243.43        170.00       73.43	177.24	37.40	117.84	22.00	-	-	-	-	-	-	14.40	132.84	30.00
243.43        170.00       73.43					·	ı	·	[]	1	[]	1		
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454.79         -         240.56         214.23         -         -         -         -         -         -         -         240.56         214.24           325.00         -         125.00         200.00         -												1/0	40
300.00         .         100.00         200.00         .					-	-	-	-	-	-	-	240.56	214.23
300.00         .         100.00         200.00         .			н	[]	1	ı	1	l 	1	l 	1	l 	
50.00         55.00         20.00 <th< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>325</td></th<>		-											325
42.00         22.00         22.00         -         -         -         -         -         42.0         -         -         -         42.0         -         42.0         -												20	300 30
1         1	42.00	20.00	22.00	-								42	30
2,390.18         652.29         1,349.66         948.23         127.14         79.39         165.19         363.42         295.80          38.20         771.95         1,462.43           41.80         22.90         18.50         -         0         0         5.28         21.27         50.94         0         -         4         -         <	-	-	-	-									
41.80         22.90         18.90         -         0         5.28         21.27         50.94         0					127.14	79,30	165.19	363.42	295.80	-	- 38.20		655.00 1.462.94
				540.25							55.20	,,1,35	2,402.34
2,971.98 655.19 1,368.56 948.23 127.14 79.39 170.47 384.69 346.74 - 38.20 771.95 1,462.5				-									
	2,971.98	655.19	1,368.56	948.23	127.14	79.39	170.47	384.69	346.74	-	38.20	771.95	1,462.94

# Commissioning / Capitalisation Plan - Master (Information to be provided for all heads either spilling into the

									Projec	ct Details		
S.No	Name of Scheme	Nature of Project Select appropriate code from below)	Year of Start		apex approved			Capitalisation Up to FY 2020-21				
				Debt	Equity	Grants	Total	Debt	Equity	Grants	Total	
A1	Schedule Tribe Development Scheme (P) Machinery and Equipments (Plan) Motor Vehicles				21.5		21.50 0.00		13.66 0		13.66 0.00	
A2	Infrastructure development through Electricity Duty (Plan)				0.00	416.68	416.68		0.00	83.62	83.62	
A3	Erection and Augmentation of 33/11 KV S/S line (Plan)				1.37		1.37		2.02	0.00	2.02	
A4	Normal Development Schemes (Plan)				29.62		29.62		49.07	0.00	49.07	
A5 A6	System Improvement Schemes (Plan) Construction of staff quarters and office buildings (Plan)				0 3.24		0.00		21.00 0.37	0.00	21.00 0.37	
	Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim				0		0.00		0.00	0.00	0.00	
	Erection of 220 KV line from Xeldem to Cuncolim						0.00		0.00	0.00	0.00	
A7	Strengthening of 220 KV Transmission Network				0		0.00		3.35	0.00	3.35	
	Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem						0.00		0.00	0.00	0.00	
	Accelerated Power Development Reforms Programme Erection of 2nd 100 MVA transfomer at Xeldem 220/110 KV						0.00		0.00	0.00	0.00	
	S/S						0.00		0.00	0.00	0.00	
A8	Erection of 220/110/33/11 KV Sub-Station at Verna (New) Erection of 220 KV line from Ponda-Verna-Xeldem				76		76.00 0.00		0.00	0.00	0.00	
	Erection of 220/110/33/11 KV Sub-Station at Soccorro								0.00	0.00	0.00	
							0.00					
	Erection of 220 KV D/C line from Colvale to Soccorro Erection of 110 KV D/C line from Soccorro to Kadamba			-		-	0.00		0.00	0.00	0.00	
				-		-						
	APDRP(State Schemes) Restructured Accelerated Power Development and Reforms						0.00		0.00	0.00	0.00	
A9	Programme Part A				0		0.00		2.64	0.00	2.64	
	Research training and human research development						0.00		0.00	0.00	0.00	
A10	Underground Cabling (R-APDRP) during Eleventh Plan period				92.3		92.30 0.00		4.81 0.00	0.00	4.81 0.00	
A11	R-APDRP Part B / IPDS				186	279	465.00		10.03	15.05	25.08	
A12	EHV new Transmission / Sub-Station / Capacitor banks schemes				25		25.00		0.37	0.00	0.37	
B1	Smartgrid Development of existing network				0		0.00		0.00	0.00	0.00	
B2	Sub-transmission and distribution improvement scheme				0		0.00		0.00	0.00	0.00	
							0.00		0.00	0.00	0.00	
	33/11 KV Gas Insulated Sub-Stations Underground Cabling of Anjuna Feeder (World Bank						0.00		0.00	0.00	0.00	
	Funding)						0.00		0.00	0.00	0.00	
	Additional Central Assistance to Tribal Sub-Scheme						0.00		0.00	0.00	0.00	
	Public Lighting Scheme Total				435.03	695.68	1130.71		107.86	98.67	206.53	
	New Schemes Projects with Administrative approval										+	
1	Estimate for the work of providing U/G cabling network for ring feeding 11KV Barazan feeder emanating from 1 x 6.3MVA Xelpem S/S under the jurisdiction of S/D-III, Sanguem, Div-VII, Curchorem in Sanguem Constituency.											
2	Estimate for the work of Design, Supply, Erection, Testing and Commissioning of new Outdoor Gas Insulated Hybrid Switchgears of 220KV Incomer line bays KP-I and TP-II at 220/110/33KV Ponda Sub-Station.											
3	Estimate for conversion of HT O/H lines to U/G network feeder & part of 11KV Xeldem feeder & Rivoma feeder in order to provide un-interrupted power supply to consumers connected of Bansai feeder under Curchorem Constiuency.											
4	Estimate for the work of conversion of existing 11 KV overhead lines to underground system, coming under the jurisdiction of Sub Division-III. Division XIV Verna of areas under Cortalim Constituency and Nuvem Constituency.											
5	Estimate for the work of S.E.T.C. of 1 no. of 50MVA, 110KV/ 33KV Power transformer at 110KV/ 33KV Verna S/S.											

Belands for excitational generation of the ABM Association         Image: Construction of the ABM Association of the ABM Associa								
a methods to UCy cables protections of 11W Data feeder           a methods to UCy cables previous of 11W Cargoure feeder           a methods to UCy cables previous of 11W Cargoure feeder           a methods to UCy cables previous of 11W Cargoure feeder           a methods to UCy cables previous of 11W Cargoure feeder           a methods to UCy cables previous of 11W Cargoure feeder           a methods to UCy cables previous of 11W Cargoure feeder           a methods to UCy cables previous of 11W Cargoure feeder           b methods to UCy cables previous of 11W Cargoure feeder           a methods to UCy cables previous of 11W Cargoure feeder           b methods to UCy cables previous of 11W Cargoure feeder           b methods to UCy cables previous of 11W Cargoure feeder           c methods to methods and cargoure cables of 11W Cargoure feeder           c methods to methods and cargoure cables of 11W Cargoure feeder           c methods to methods and cargoure cables of 11W Cargoure feeder           c methods to methods of 11W Cargoure feeder           c methods to methods and cargoure cables of 11W Cargoure feeder           c methods to methods of 11W Cargoure feeder           c methods in the cargoure feeder	6	Conductor to HTLS Conductor of 33KV double circuit line						
•         Include to UP calling structure of 11MV Struggers Mediar           •         Implementation of 5 cold, 12-W-10, Cuckenow In Sergers           •         Example to Fear and convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of convestion of stating 11W           •         Structure of the solution of co	7	network to U/G cabling network of 11KV Bhati feeder emanating from 1 x 3.15 MVA, 33/11KV Waddem S/S under the jurisdiction of S/D-III Sanguem, Div-VII, Curchorem in Sanguem Constituency.						
overhead relation to undergound caking relation of 110V         Posterial is 30AA. Adjust allow allows allow allows allow allows allows allow allows all	8	network to U/G cabling network of 11KV Sanguem feeder emanating from 1 x 6.3MVA, 33/11KV Xelpem S/S under the jurisdiction of S/D-III, Div-VII, Curchorem in Sanguem						
commissioning of 11V, 3000 KXDE amounted called of 130 Bill ACT banks. Personal System Under Data Syst	9	overhead network to underground cabling network of 11KV Ponsamol feeder emanating from 1x6.3MVA, Xelpem Sub- Station under the jurisdiction of Sub Division-III, Sanguem, Division-VII, Curchorem in Sanguem Constituency.						
Estimate for the work of supply, excelon, relating & commission of selling (0)H 11KV excelsed and table of the work of monoweak of selling (0) H 11KV excelsed and the selling (0) H 11KV e	10	commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Mandrem feeder emanating from 33/11KV Tuem S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem,						
of Undir & Durbha feeder in Village Wadi Talaulin,           12         Durbha, Bandon, perf of Uuit & part of Bonin habble by the Schedule Tribes population under the public of Conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of conversion of TIKV HT electrical public for the work of the the jurisdiction of SiD-I, Durk, K, Curl Ponda.         Image: Conversion of TIKV HT electrical public for the the jurisdiction of SiD-I, Durk, K, Curl Ponda.         Image: Conversion of TIKV HT electrical public for the the jurisdiction of SiD-I, Durk, K, Curl Ponda.         Image: Conversion of TIKV HT electrical public for the the jurisdiction of SiD-I, Durk, K, Curl Ponda.         Image: Conversion of Co	11	commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Sodiem feeder emanating from 33/11KV Mapusa S/S to U/G System under the jurisdiction of S/D-III, Agarwada,						
network of Kinapabanch, Ponda-I, Bazar and part of 13         Durbhar, Famaguid & Curl feders by covering 11XV HT OH lines to U/G cable, under the jurisdiction of SD-I, Div- X, Curl-Ponda.	12	of Undir & Durbhat feeder in Village Wadi Talaulim, Durbhat, Bandora, pert of Curit & part of Borim inhabited by the Scheduled Tribes population under Tribal Sub-Plan by converting 11KV HT O/H lines to U/G cable under the jurisdiction of S/D-I, Div-X, Ponda						
Projects Approved by EFC         Image: Conversion of existing O/H 11KV HT network to           1         underground (U/E) cabing for Vasco Town under the Jurisdiction of Sub Division-I(U), Vasco,         Image: Conversion of Sub Division-I(U), Vasco,           2         Work of conversion of OH HT network to underground HT network to adapted m power supply to Salaulim water works and Donneatic consumers of Bhalt, Uguem, Kalay         Image: Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Constituency, Conduct of 31X VN lessal-1 and Nessai-111 feeder from 220(33 KV Xeldem Sub-Station to 33/11KV KKC Sub-Station and Benaulim Sub-Station, Conductor of 31X VN lessal-1 and Nessai-111 and Nessai-Vitex, Conductor of 31X VN lessal-111 and Nessai-Vitex, Conductor of 31X NV lessal-111 and Nessai-Vitex, Conductor of 31X NV lessal-111 and Nessai-Vitex, Conductor of 31X NV lessal-111 and Nessai-Vitex, Vitex,	13	network of Khadpabandh, Ponda-I, Bazar and part of Durbhat, Farmagudi & Curti feeders by converting 11KV HT O/H lines to U/G cable, under the jurisidiction of S/D-I, Div- X, Curti-Ponda.						
Conversion of existing O/H 11KV HT network to         1       underground (UIC) cabing for Vasco Town under the Jurisdiction of Sub Division-IU(), Vasco.         Work of conversion of O/H HT network to underground HT network of 33KV Xeldem -Xelpem feeder in order to works and Domestic consumers of Bhail, Uguem, Kalay VP. areas and Sanguem Municipal areas in Sanguem Constituency.       Image: Constituency in Conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 31KV Nessai-1 and Nessai- 111 feeder from 220(33 KV Xeldem Sub Station to 3311KV KRC Sub-Station and Benaulim Sub-Station to 3311KV KRC Sub-Station and Benaulim Sub-Station to 3311KV K		Total						
1       Underground (UG) cabing for Vasco Town under the Jurisdiction of Sub Unison-I(U). Vasco,         2       Work of conversion of O/H HT network to underground HT provide uninterrupted m power supply to Salaulin water works and Domestic consumers of Bhall, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguem Constituency.       Image: Construction of Shall, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguem Constituency.         3       Image: Consumers of Diskli, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguem Constituency.       Image: Consumers of Shall, Uguen, Kalay V.P. areas and Sanguen Municipal areas in Sanguem Constituency.         4       Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-111 and Nessai-IV feeder from 220/33 KV Xeldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.         5       Mork of supply rection, festing and commissioning of 33/11KV KRC Sub-Station (Electrical and Civil Works) at Mandrem under Sub-Station (Electrical and Civil Works) at Mandrem under Sub Division-III Agarwada, Dix VII Mapusa.         6       Conversion of existing OHT 11 KV Ball feeder into Underground existing System merging from 33/11 KV Cuncolim Substationunder the jurisdiction of Elect. CAM Sub-Div/L, Ucucolim.         6       Work of conversion of OHT The Work buickeen of Underground existing DHT 11 KV Ball feeder into Underground existing Dherment of Elect. CAM Sub-Div/L, Ucucolim.       Mork of conversion of OHT The Work buickeen of Underground existing DHT The Work buickeen of Electrical and Civil Work in Conversion of OHT The Work buickeen of Electrical and Civil Work in Conve		Projects Approved by EFC						
2       network of 33KV Xeldem - Xelpem feeder in order to provide uniterrupted m power supply to Salualium water works and Domestic consumers of Bhali, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency.       Image: Constituency in the initial initinitial initinitial initial initial initinitial initial initial in	1	Jurisdiction of Sub Division-I(U), Vasco,						
3       infector for Units Conductor of 33 KV Nessai-1 and Nessai-1 and Nessai-1 fielder form 2003 KV Xeldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.         4       Work of conversion of existing overhead ACSR Raccon conductor to HTLS conductor of 33 KV Nessai-111 and Nessai-V fielder from 220/33 KV Xeldem Sub-Station.         5       Work of conversion and Benaulim Sub-Station.         6       Work of supply, erection, testing and commissioning of 33/11 KV KRC Sub-Station (Electrical and Civil Works) at Mandrem under Sub Distaion-III Agarwada, Div XVII Mapusa.         6       undergound cabling system emerging from 33/11 KV CurveSitem of Elect. 0&M Sub. Div/IV, Div-XVI, Cuncolim.         Work of conversion of Conversion of Conversion of Pixel Curve and Civil Works) at Mandrem under Sub Division-III Agarwada, Div XVII Mapusa.         6       Undergound cabling system emerging from 33/11 KV CurveSitem.         7       Work of conversion of Civil KV Sub undergorund HT         8       Work of conversion of Civil HT network to Undergorund HT         9       Work of conversion of Civil HT network to Undergorund HT         9       Work of conversion of Civil HT network to Undergorund HT         9       Work of conversion of Civil HT network to Undergorund HT         9       Work of conversion of Civil HT network to Undergorund HT	2	network of 33KV Xeldem - Xelpern feeder in order to provide uninterrupted m power supply to Salaulim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem						
4       conductor to HTLS conductor of 33 KV Netessai-111 and Nessai-Vi feed rfrom 220/33 KV Xeldem Sub-Station to 33/11 KV KRC Sub-Station and Benaulim Sub-Station.          5       additional state of the state o	3	conductor to HTLS conductor of 33 KV Nessai-1 and Nessai- 11 feeder from 220/33 KV Xeldem Sub-Station to 33/11KV						
5     33/11 KV, Zx 10 MVA, Indoor type Sub-Station (Electrical Agarwada, Div XVII Mapusa.       Conversion of existing OH 11 kV Balli feeder into undergound cabling system emerging from 33/11 kV Cuncoling Substationunder the jurisdiction of Elect. O&M Sub- Div-VV, DV-XVI, Cuncoline       Work of conversion of O/H HT network to undergorund HT work to Conversion of O/H HT network to undergorund HT	4	conductor to HTLS conductor of 33 KV Nessai-111 and Nessai-IV feeder from 220/33 KV Xeldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.						
6         Undergound cabling system emerging from 33/11 kV           6         Curocimis Substationuder the jurisdiction of Elect. 0&M           8         Sub. Div-IV, Div-XVI, Cuncolim.           Work of conversion of O/H HT network to undergorund HT           endergound is of Chinesent's Boorgroup area of the second seco	5	33/11kV, 2x 10 MVA, Indoor type Sub-Station (Electrical and Civil Works) at Mandrem under Sub Division-III Agarwada, Div XVII Mapusa.						
natural in Chinabinium Dharmonur & Parzara area of	6	undergound cabling system emerging from 33/11 kV Cuncolim Substationunder the jurisdiction of Elect. O&M						
7 Veltwork in Contractinguit, Starzbia area of Veltm Contituency under the jurisdiction of Subdivision-II Chinchinim, Division-XVI Margao, in South Goa District.	7	network in Chinchinium, Dharmapur & Sarzora area of Velim Contituency under the jurisdiction of Subdivision-II						
Worth of Decign, Supply, Erection & Commissiong of 33 kV, 2x3 Core, 400 Sq.mm XLPE Cable from Ponda         2x3 Core, 400 Sq.mm XLPE Cable from Cable from Ponda           8         Sub-Station to Banastarini for a distance of 145 Kms and 1x3 Core 185 Sq.mm XLPE Cable for a distance of 1.95 kms for providing reliable supply to kundaim, Marcel area and Industries of Kundaim Industrial Estate.         Image: Common State C	8	2x3 Core, 400 Sq.mm XLPE Cable from Cable from Ponda Sub-Station to Banastarim for a distance of 185 kms and 1x3 Core 185 Sq.mm XLPE Cable for a distance of 1.95 kms for providing reliable supply to kundaim, Marcel area						

9	Work of conversion of Existing 11 KV (HT) overhead lines to underground cabling network for 11 KV Mandop feeder, 11 KV MES feeder, 11 KV Navelim feeder, emanating from 33/11 KRC Substation and provision for additional 11 KV Navelim Express feeder under Subdivision III, Navelim, Division IV, Margao Goa under Infrastructure Development Fund.						
10	Work of upgrading of 220 KV PXR line by replacement of existing ACSR Drake Conductor with HTLS ACCC DRAKE Conductor from Ponda 220KV Ponda Sub-Station to 220KV Xeldem Sub-Station and replacement of polymer suspension insulator of 220KV AP-II Circuit from Ponda S/S to Kardi point.						
11	Work of conversion of the existing overhead 11 KV line of Bicholim City, Assonora, Bordem and Bicholim IDC feeder emanating from 33/11 kV Bicholim Sub-station to underground cable system in the jurisdiction of Sub Division- I(U), Bicholm-Gaa.						
12	Work of conversion of existing LT O/H line of 11KV Kakoda Feeder & 11 KV Town-II feeder into underground cabling system in Curchorem Constituency.						
13	Work of conversion of existing 33KV SC overhead Virdi II feeder to Double Circuit line with HTLS Conductor from 220 KV Amona Sub Station, under Sub Division – I(U), Bicholim.						
	Total						
	Projects tendered (To start next year)						
1	Tender No. 19(2020-21)/CSC: Tender for the Work of conversion of 11KV overhead network of Torla feeder to 11KV underground system along the road side from 33/11KV Shiroda substation under Sub Division II, Div. X, Ponda in Shiroda constituency						
2	Tender No. 22(2020-21)/CSC: Work of conversion of 11KV S/C DH St. Cruz feeder to UG network by laying 11KV, 3Core 300s,mm. aluminium armoured XLPE cable for a distance of 14.5 Kms along with associated equipments.						
3	Tender No. 23(2020-21)/CSC: Work for conversion of 11KV SC OH Diwar feeder, Diwar and Chorao section in the jurisdiction of Sub Division-I, Division-I, Panaji.						
4	Tender No. 24(2020-21)/CSC: Work of Supply, Laying, Testing & Commissioning of 33KV Core 400 sq.mm. XLPE U/G cable from 220/33KV Amona /S/ for providing alternate power supply to 33/11KV Sankhali S/S.						
5	Tender No. 25(2020-21)/CSC: Work of Supply and Laying of 33KV, 3C X 400sq.mm. XLPE Aluminium cable from Sonshi to Amona S/S.						
6	Tender No. 26 (2020-21)/CSC: Work of conversion of 11KV S/C O/H Merces feeder to UG network by laying 11KV, 3Core 300s, mm. Aluminium Armoured XLPE cable for a distance of 13Kms along with associated equipments.						
7	Tender No. 27(2020-21)/CSC: Work of conversion of existing 11KV overhead industry feeder, 11KV cable Industry feeder and 33KV Unichem feeder to underground system and providing new 11KV feeder at Pileme Industrial Estate, Pileme under Sub Division-II, Porvorim.						
8	Tender No. 29(2020-21)/CSC: Work of conversion of overhead 11KV Industry-IV feeder to 11KV underground system along the road from 33/11KV Kundia Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.						
9	Tender No. 30(2020-21)/CSC: Work of conversion of overhead 11KV of Shiroda feeder to 11KV underground system along the road side from 33/11KV Bethora Sub- Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.						
10	Tender No. 33(20-21)/CSC: Tender for the work of conversion of 11KV Industry-II/IIII feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.						
11	Tender No. 37(20-21)/CSC: Tender for the work of conversion of overhead 11KV Sulcorna feeder to underground network from 33/11KVQuinamol, Rivona Sub- Station to Devrem transformer center under the jurisdiction of Sub Division-II, Division-VII, Curchorem.						
12	Tender No. 38(20-21)/CSC: Tender for the work of conversion of overhead 11KV Mollem feeder to underground network under the jurisdiction of Sub Division- IV, Division-VII, Curchorem.						

	Tender No. 39(20-21)/CSC: Tender for the work of									
13	conversion of overhead 11KV Dhat feeder to underground									
13	network under the jurisdiction of Sub Division-IV, Division-									
	VII, Curchorem.									
	Tender No. 40(20-21)/CSC: Tender for the work of									
14	conversion of overhead 11KV Panchawadi feeder to									
	underground network under the jurisdiction of Sub Division-									
	IV, Division-VII, Curchorem.									
	Tender No. 07(2021-22)/CSC: Tender for the Work of									
15	conversion of existing 33KV MES single circuit line to double circuit line emanating from 220/33KV Cuncolim									
15	substation to 33/11KV KRC substation under Div. IV,									
	Margao									
	Tender No. 10(2021-22)/CSC: Work of Supply, Erection,									
	Testing and Commissioning 11KV 3Core, XLPE armoured									
	Cable of size 300 Sq. mm. for conversion of existing									
16	overhead 11KV Morjim Feeder to underground system									
	under the jurisdiction of Sub-Division-III, Agarwada, Div XVII									
	- Mapusa.									
	Tender No. 12(2021-22)/CSC: Supply, Laying, Testing and									
1	Commissioning of 33KV, 3 Core, 400 Sq.mm. XLPE cable		1							
17	double circuits (Velim-I & Velim-II) from 220/33KV Cuncolim		1							
	substation to 33/11KV Velim substation									
	Tender No. 34(20-21)/CSC: Tender for the work of									
10	conversion of 11KV overhead network of Borim feeder to 11KV underground system along the road side from									
18	33/11KV Shiroda Sub-Station in Shiroda Constituency									
	under Sub Division-II, Division-X, Ponda.									
	Tender No. 35(20-21)/CSC: Tender for the work of									
	conversion of 11KV overhead network of Nirankal feeder to									
19	11KV underground system along the road side from									
	33/11KV Bethora Sub-Station in Shiroda Constituency									
	under Sub Division-II, Division-X, Ponda.									
	Total									
1	REVAMPED Distriution Projects Smart Meter and AMI									
	SCADA upgradation, cabling connection, infra									
2	develipement, mordernization									
3	Training and Placement									
5	Total									
	Other Schemes									
1	Saligao 3/63 MVA 220X33 kV S/s at Saligao & Associated					-				
	D/C Lines									
2	Verna 220/110/33 kV									
3	Upgradation of PONDA EHV S/s project									
4	Tuem Project									
5	Over Head to Underground Cuncholim Conocona Xeldom S/s (220/33 63 MVA T/F)									
6	Total									
			t							
	Sub-Total			-	-	-		-	-	-
						-		-	-	-
	Sub-Total		t	435.03	695.68	1,130.71		107.86	98.67	206.53
				400.00	055.08	1,130.71		107.80	50.07	200.33
	DEPOSIT WORKS									
			t							
	GRAND TOTAL		+	435.03	695.68	1,130.71		107.86	98.67	206.53
	GRAND TOTAL			 435.03	032.08	1,150./1		107.86	30.67	200.53
L			L					1		

 Notes:

 1. All schemes should necessarily be in the same serial order.

 2. Support with appropriate paper work i.e. Detailed Project Reports and other documents, as necessary.

 3. Codes for selecting Nature of work.

 a. EHV Schemes

 b. Distribution schemes

 (ii) System augmentation

 (iii) Schemes for distribution loss reduction

 c. detering schemes

 d. Capacitor schemes

 e. SCADA / DSM etc schemes

 f. Miscellaneous schemes

#### ne period starting from previous year to the end year of control period)

Name of Scheme	Nature of Project (Select appropriate code from below)	Year of Start	Capi	talisation incu	rred in FY 202	21-22		FY 2	022-23	
			Debt	Equity	Grants	Total	Debt	Equity	Grants	Total
Schedule Tribe Development Scheme (P) Machinery and Equipments (Plan) Motor Vehicles				8.12		8.12 0.00		65.7 0		65.7 0.00
Infrastructure development through Electricity Duty (Plan)				0.00 0.00	59.45	<b>59.45</b>		0.00	103.74	103.74
Erection and Augmentation of 33/11 KV S/S line (Plan)				0.00	0.00	0.00		5.00	0.00	5.00
Normal Development Schemes (Plan) System Improvement Schemes (Plan)				43.33 12.84	0.00	43.33 12.84		6.00 31.30	0.00	6.00 31.30
Construction of staff quarters and office buildings (Plan)				0.00	0.00	0.00		2.00	0.00	2.00
Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 220 KV line from Xeldem to Cuncolim Strengthening of 220 KV Transmission Network				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem				0.00	0.00	0.00		0.00	0.00	0.00
Accelerated Power Development Reforms Programme				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 2nd 100 MVA transfomer at Xeldem 220/110 KV S/S				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 220/110/33/11 KV Sub-Station at Verna (New)				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 220 KV line from Ponda-Verna-Xeldem				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 220/110/33/11 KV Sub-Station at Soccorro				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 220 KV D/C line from Colvale to Soccorro				0.00	0.00	0.00		0.00	0.00	0.00
Erection of 110 KV D/C line from Soccorro to Kadamba APDRP(State Schemes)				0.00	0.00	0.00		0.00	0.00	0.00
Restructured Accelerated Power Development and Reforms Programme Part A				0.00	0.00	0.00		0.00	0.00	0.00
Research training and human research development				0.00	0.00	0.00		0.00	0.00	0.00
Underground Cabling				2.63	0.00	2.63		54.54	0.00	54.54
(R-APDRP) during Eleventh Plan period R-APDRP Part B / IPDS				0.00 15.40	0.00 23.10	0.00 38.50		0.00 7.20	0.00 10.80	0.00 18.00
EHV new Transmission / Sub-Station / Capacitor banks schemes				0.00	0.00	0.00		0.00	0.00	0.00
Smartgrid Development of existing network				0.00	0.00	0.00		0.00	0.00	0.00
Sub-transmission and distribution improvement scheme				0.00	0.00	0.00		89.00 0.00	0.00	89.00
33/11 KV Gas Insulated Sub-Stations				0.00	0.00	0.00		0.00	0.00	0.00
Underground Cabling of Anjuna Feeder (World Bank Funding)				0.00	0.00	0.00		0.00	0.00	0.00
Additional Central Assistance to Tribal Sub-Scheme Public Lighting Scheme				0.00	0.00	0.00		0.00 0.20	0.00	0.00 0.20
Total				82.64	82.55	165.19		272.68	114.54	387.22
New Schemes										
Projects with Administrative approval										
Estimate for the work of providing U/G cabling network for ring feeding 11KV Barazan feeder emanating from 1 x 6.3MVA Xelpem S/S under the jurisdiction of S/D-III, Sanguem, Div-VII, Curchorem in Sanguem Constituency.								0.00	0.00	0.00
Estimate for the work of Design, Supply, Erection, Testing and Commissioning of new Outdoor Gas Insulated Hybrid Switchgears of 220KV Incomer line bays KP-I and TP-II at 220/110/33KV Ponda Sub-Station.								0.00	0.00	0.00
Estimate for conversion of HT O/H lines to U/G network feeder & part of 11KV Xeldem feeder & Rivorna feeder in order to provide un-interrupted power supply to consumers connected of Bansai feeder under Curchorem Constiuency.								0.00	0.00	0.00
Estimate for the work of conversion of existing 11 KV overhead lines to underground system, coming under the jurisdiction of Sub Division-III. Division XIV Verna of areas under Cortalim Constituency and Nuvem Constituency.								0.00	0.00	0.00
Estimate for the work of S.E.T.C. of 1 no. of 50MVA, 110KV/ 33KV Power transformer at 110KV/ 33KV Verna S/S.								0.00	0.00	0.00

Form F10

Estimate for re-conductoring of existing O/H ACSR Raccon Conductor to HTLS Conductor of 33KV double circuit line from 110/33KV Kadamba S/S to 33/11KV Bambolim S/S.					0.00	0.00	0.00
Estimate for the work of conversion of existing 11KV O/H network to U/G cabling network of 11KV Bhati feeder emanating from 1 x 3.15 MVA, 33/11KV Waddem S/S under the jurisdiction of S/D-III Sanguern, Div-VII, Curchorem in Sanguern Constituency.					0.00	0.00	0.00
Estimate for the work of conversion of existing 11KV O/H network to U/G cabling network of 11KV Sanguem feeder emanating from 1 x 6.3MVA, 33/11KV Xelpem S/S under the jurisdiction of S/D-III, Div-VII, Curchorem in Sanguem Constituency.					0.00	0.00	0.00
Estimate for the work of conversion of existing 11KV overhead network to underground cabling network of 11KV Ponsamol feeder emanating from 1x6 3MVA, Xelpem Sub- Station under the jurisdiction of Sub Division-III, Sanguem, Division-VII, Curchorem in Sanguem Constituency.					0.00	0.00	0.00
Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Mandrem feeder emanating from 33/11KV Tuem S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem, Div-XVII, Mapusa in Mandrem Constituency.					0.00	0.00	0.00
Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Sodiem feeder emanating from 33/11KV Mapusa S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem, Div-XVII, Mapusa.					0.00	0.00	0.00
Estimate for the work of improvement of 11KV HT network of Undir & Durbhat Reeder in Village Wadi Talaulim, Durbhat, Bandora, pert of Curit & part of Borim inhabited by the Scheduled Tribes population under Tribal Sub-Plan by converting 11KV HT OH lines to U/G cable under the jurisdiction of S/D-I, Div-X, Ponda					0.00	0.00	0.00
Estimate for the work of conversion of 11KV HT electrical network of Khadpabandh, Ponda-I, Bazar and part of Durbhat, Farmagudi & Curti feeders by converting 11KV HT O/H lines to U/G cable, under the jurisidiction of S/D-I, Div- X, Curti-Ponda.					0.00	0.00	0.00
Total					0.00	0.00	0.00
Projects Approved by EFC							
Conversion of existing O/H 11KV HT network to underground (U/G) cabling for Vasco Town under the Jurisdiction of Sub Division-I(U), Vasco,					0.00	0.00	0.00
Work of conversion of O/H Th retwork to underground HT network of 33KV Xeldem - Xelpem feeder in order to provide uninterrupted m power supply to Salaulim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency.					0.00	0.00	0.00
Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-1 and Nessai- 11 feeder from 220/33 KV Veldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.					0.00	0.00	0.00
Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-111 and Nessai-IV Feeder from 220/33 KV Xeldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.					0.00	0.00	0.00
Work of supply, erection, testing and commissioning of 33/11kV, 2x10 WVA, Indoor type Sub-Station (Electrical and Civil Works) at Mandrem under Sub Division-III Agarwada, Div XVII Mapusa.					0.00	0.00	0.00
Conversion of existing O/H 11 kV Balli feeder into undergound cabling system emerging from 33/11 kV Cuncolim Substationunder the jurisdiction of Elect. O&M Sub. Div-IV, Div-XVI, Cuncolim.					0.00	0.00	0.00
Work of conversion of O/H HT network to undergorund HT network in Chinchinium, Dharmapur & Sarzora area of Velim Contituency under the jurisdiction of Subdivision-II Chinchinim, Division-XVI Margao, in South Goa District.					0.00	0.00	0.00
Worth of Decign, Supply, Erection & Commissiong of 33 kV, 2x3 Core, 400 Sq.mm XLPE Cable from Cable from Ponda Sub-Station to Banastarim for a distance of 185 kms and 1x3 Core 185 Sq.mm XLPE Cable for a distance of 1.95 kms for providing reliable supply to kundaim, Marcel area					0.00	0.00	0.00

Work of conversion of Existing 11 KV (HT) overhead lines to underground cabling network for 11 KV Mandop feeder, 11 KV MES feeder, 11 KV Navelim feeder, emanating from 33/11 KRC Substation and provision for additional 11 KV Navelim Express feeder under Subdivision III, Navelim, Division IV, Margao Goa under Infrastructure Development Fund.					0.00	0.00	0.00
Work of upgrading of 220 KV PXR line by replacement of existing ACSR Drake Conductor with HTLS ACCC DRAKE Conductor from Ponda 220KV Ponda Sub-Station to 220KV Xeldem Sub-Station and replacement of polymer suspension insulator of 220KV AP-II Circuit from Ponda S/S to Kardi point.					0.00	0.00	0.00
Work of conversion of the existing overhead 11 KV line of Bicholim GU, Assonora, Bordem and Bicholim IDC feeder emanating from 33/11 kV Bicholim Sub-station to underground cable system in the jurisdiction of Sub Division- I(U), Bicholim-Goa.					0.00	0.00	0.00
Work of conversion of existing LT O/H line of 11KV Kakoda Feeder & 11 KV Town-II feeder into underground cabling system in Curchorem Constituency.					0.00	0.00	0.00
Work of conversion of existing 33KV SC overhead Virdi II feeder to Double Circuit line with HTLS Conductor from 220 KV Amona Sub Station, under Sub Division – I(U), Bicholim.					0.00	0.00	0.00
Total					0.00	0.00	0.00
Projects tendered (To start next year)							
Tender No. 19(2020-21)/CSC: Tender for the Work of conversion of 11KV overhead network of Torla feeder to 11KV underground system along the road side from 33/11KV Shiroda substation under Sub Division II, Div. X, Ponda in Shiroda constituency					0.00	0.00	0.00
Tender No. 22(2020-21)/CSC: Work of conversion of 11KV S/C OH St. Cruz feeder to UG network by laying 11KV, 3Core 300s, mm. aluminium armoured XLPE cable for a distance of 14.5 Kms along with associated equipments.					0.00	6.00	6.00
Tender No. 23(2020-21)/CSC: Work for conversion of 11KV SC OH Diwar feeder, Diwar and Chorao section in the jurisdiction of Sub Division-I, Division-I, Panaji.					0.00	0.00	0.00
Tender No. 24(2020-21)/CSC: Work of Supply, Laying, Tresting & Commissioning of 33KV Core 400 sq.mm. XLPE U/G cable from 220/3XV Amona S/S for providing alternate power supply to 33/11KV Sankhali S/S.					0.00	0.00	0.00
Tender No. 25(2020-21)/CSC: Work of Supply and Laying of 33KV, 3C X 400sq.mm. XLPE Aluminium cable from Sonshi to Amona S/S.					0.00	0.00	0.00
Tender No. 26 (2020-21)/CSC: Work of conversion of 11KV S/C O/H Merces feeder to UG network by laying 11KV, 3Core 300sq.mm. Aluminium Armoured XLPE cable for a distance of 13Kms along with associated equipments.					0.00	5.00	5.00
Tender No. 27(2020-21)/CSC: Work of conversion of existing 11KV overhead Industry feeder, 11KV cable Industry feeder and 33KV Unichem feeder to underground system and providing new 11KV feeder at Pileme Industrial Estate, Pileme under Sub Division-II, Porvorim.					0.00	0.00	0.00
Tender No. 29(2020-21)/CSC: Work of conversion of overhead 11KV Industry-IV feeder to 11KV underground system along the road from 33/11KV Kundia Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.					0.00	0.00	0.00
Tender No. 30(2020-21)/CSC: Work of conversion of overhead 11KV of Shiroda feeder to 11KV underground system along the road side from 33/11KV Bethora Sub- Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.					0.00	0.00	0.00
Tender No. 33(20-21)/CSC: Tender for the work of conversion of 11KV Industry-I/I/III feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.					0.00	0.00	0.00
Tender No. 37(20-21)/CSC: Tender for the work of conversion of overhead 11KV Sulcorna feeder to underground network from 33/11KVQuinamol, Rivona Sub- Station to Devrem transformer culter under the jurisdiction of Sub Division-II, Division-VII, Curchorem.					0.00	0.00	0.00
Tender No. 38(20-21)/CSC: Tender for the work of conversion of overhead 11KV Mollem feeder to underground network unker the jurisdiction of Sub Division- IV, Division-VII, Curchorem.					0.00	0.00	0.00

Tender No. 39(20-21)/CSC: Tender for the work of									
conversion of overhead 11KV Dhat feeder to underground							0.00	0.00	0.00
network under the jurisdiction of Sub Division-IV, Division-									
VII, Curchorem. Tender No. 40(20-21)/CSC: Tender for the work of									
conversion of overhead 11KV Panchawadi feeder to									
underground network under the jurisdiction of Sub Division-							0.00	0.00	0.00
IV, Division-VII, Curchorem.									
Tender No. 07(2021-22)/CSC: Tender for the Work of									
conversion of existing 33KV MES single circuit line to									
double circuit line emanating from 220/33KV Cuncolim							3.40	0.00	3.40
substation to 33/11KV KRC substation under Div. IV,									
Margao									
Tender No. 10(2021-22)/CSC: Work of Supply, Erection,									
Testing and Commissioning 11KV 3Core, XLPE armoured									
Cable of size 300 Sq. mm. for conversion of existing overhead 11KV Morjim Feeder to underground system							0.00	0.00	0.00
under the jurisdiction of Sub-Division-III, Agarwada, Div XVII									
- Mapusa.									
Tender No. 12(2021-22)/CSC: Supply, Laying, Testing and			1						
Commissioning of 33KV, 3 Core, 400 Sq.mm. XLPE cable							0.00	0.00	0.00
double circuits (Velim-I & Velim-II) from 220/33KV Cuncolim									
substation to 33/11KV Velim substation									
Tender No. 34(20-21)/CSC: Tender for the work of									
conversion of 11KV overhead network of Borim feeder to									
11KV underground system along the road side from							0.00	0.00	0.00
33/11KV Shiroda Sub-Station in Shiroda Constituency									
under Sub Division-II, Division-X, Ponda.									
Tender No. 35(20-21)/CSC: Tender for the work of									
conversion of 11KV overhead network of Nirankal feeder to 11KV underground system along the road side from							0.00	0.00	0.00
33/11KV Bethora Sub-Station in Shiroda Constituency							0.00	0.00	0.00
under Sub Division-II, Division-X, Ponda.									
Total							3.40	11.00	14.40
REVAMPED Distriution Projects									
Smart Meter and AMI							0.00	0.00	0.00
SCADA upgradation, cabling connection, infra							0.00	0.00	0.00
develipement, mordernization									
Training and Placement							0.00	0.00	0.00
Total							0.00	0.00	0.00
Other Schemes									
Saligao 3/63 MVA 220X33 kV S/s at Saligao & Associated									
D/C Lines							0.00	0.00	0.00
Verna 220/110/33 kV							0.00	0.00	0.00
Upgradation of PONDA EHV S/s project							0.00	0.00	0.00
Tuem Project							0.00	0.00	0.00
Over Head to Underground Cuncholim Conocona							0.00	0.00	0.00
Xeldom S/s (220/33 63 MVA T/F)							0.00	0.00	0.00
Total	L	l					 0.00	0.00	0.00
	L								
Sub-Total	L			-	-	-	3.40	11.00	14.40
	L								
Sub-Total	L			82.64	82.55	165.19	276.08	125.54	401.62
		L							
DEPOSIT WORKS									
GRAND TOTAL				82.64	82.55	165.19	276.08	125.54	401.62

 Notes:

 1. All schemes should necessarily be in the same serial order.

 2. Support with appropriate paper work i.e. Detailed Project Reports and other documents, as necessary.

 3. Codes for selecting Nature of work.

 a. EHV Schemes

 b. Distribution schemes

 (i) System improvement

 (iii) Schemes for distribution loss reduction

 c. Metering schemes

 d. Capacitor schemes

 e. SCADA / DSM etc schemes

 f. Miscellaneous schemes

Name of Scheme	Nature of Project (Select appropriate code from below)	Year of Start		FY	2023-24	
			Debt	Equity	Grants	Total
Schedule Tribe Development Scheme (P)			Dest	44.83	Granta	44.83
Machinery and Equipments (Plan) Motor Vehicles				0		0.00
Infrastructure development through Electricity Duty (Plan)				0.00	63.20	63.20
Erection and Augmentation of 33/11 KV S/S line (Plan)				10.00	0.00	10.00
Normal Development Schemes (Plan) System Improvement Schemes (Plan)				6.00 6.00	0.00	6.00 6.00
Construction of staff quarters and office buildings (Plan)				5.00	0.00	5.00
Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim				0.00	0.00	0.00
Erection of 220 KV line from Xeldem to Cuncolim Strengthening of 220 KV Transmission Network				0.00 21.00	0.00	0.00 21.00
Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem				0.00	0.00	0.00
Accelerated Power Development Reforms Programme Erection of 2nd 100 MVA transfomer at Xeldem 220/110 KV				0.00	0.00	0.00
S/S				0.00	0.00	0.00
Erection of 220/110/33/11 KV Sub-Station at Verna (New)				0.00	0.00	0.00
Erection of 220 KV line from Ponda-Verna-Xeldem				0.00	0.00	0.00
Erection of 220/110/33/11 KV Sub-Station at Soccorro				0.00	0.00	0.00
Erection of 220 KV D/C line from Colvale to Soccorro				0.00	0.00	0.00
Erection of 110 KV D/C line from Soccorro to Kadamba				0.00	0.00	0.00
APDRP(State Schemes) Restructured Accelerated Power Development and Reforms				0.00	0.00	0.00
Programme Part A Research training and human research development				0.00	0.00	0.00
Underground Cabling				229.50	0.00	229.50
(R-APDRP) during Eleventh Plan period				0.00	0.00	0.00
R-APDRP Part B / IPDS EHV new Transmission / Sub-Station / Capacitor banks				0.00	0.00	0.00
schemes Smartgrid Development of existing network				0.00	0.00	0.00
Sub-transmission and distribution improvement scheme				20.00	0.00	20.00
				0.00	0.00	0.00
33/11 KV Gas Insulated Sub-Stations				0.00	0.00	0.00
Underground Cabling of Anjuna Feeder (World Bank Funding)				0.00	0.00	0.00
Additional Central Assistance to Tribal Sub-Scheme				0.00	0.00	0.00
Public Lighting Scheme Total				0.10 342.43	0.00 63.2	0.10 405.63
New Schemes						
Projects with Administrative approval Estimate for the work of providing U/G cabling network for ring feeding 11KV Barazan feeder emanating from 1 x 6.3MVA Xelpem S/S under the jurisdiction of S/D-III, Sanguem, Div-VII, Curchorem in Sanguem Constituency.				0.00	0.00	0.00
Estimate for the work of Design, Supply, Erection, Testing and Commissioning of new Outdoor Gas Insulated Hybrid Switchgears of 220KV Incomer line bays KP-I and TP-II at 220/110/33KV Ponda Sub-Station.				0.00	4.72	4.72
Estimate for conversion of HT O/H lines to U/G network feeder & part of 11KV Xeldem feeder & Rivorna feeder in order to provide un-interrupted power supply to consumers connected of Bansai feeder under Curchorem Constiuency.				0.00	0.00	0.00
Estimate for the work of conversion of existing 11 KV overhead lines to underground system, coming under the jurisdiction of Sub Division-III, Division XIV Verna of areas under Cortalim Constituency and Nuvem Constituency.				0.00	0.00	0.00
Estimate for the work of S.E.T.C. of 1 no. of 50MVA, 110KV/ 33KV Power transformer at 110KV/ 33KV Verna S/S.				9.00	0.00	9.00

Estimate for re-conductoring of existing O/H ACSR Raccon Conductor to HTLS Conductor of 33KV double circuit line from 110/33KV Kadamba S/S to 33/11KV Bambolim S/S.			0.00	0.00	0.00
Estimate for the work of conversion of existing11KV O/H network to U/G cabling network of 11KV Bhat feeder emanating from 1 x 3.15 MVA, 33/11KV Waddem S/S under the jurisdiction of S/D-III Sanguem, Div-VII, Curchorem in Sanguem Constituency.			0.00	0.00	0.00
Estimate for the work of conversion of existing 11KV O/H network to U/G cabling network of 11KV Sanguem feeder emanating from 1 x 6.3MVA, 33/11KV Xelpem S/S under the jurisdiction of S/D-III, Div-VII, Curchorem in Sanguem Constituency.			0.00	0.00	0.00
Estimate for the work of conversion of existing 11KV overhead network to underground cabling network of 11KV Ponsamol feeder emanating from 1x6.3MVA, Xelpem Sub- Station under the jurisdiction of Sub Division-III, Sanguem, Division-VII, Curchorem in Sanguem Constituency.			0.00	0.00	0.00
Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Mandrem feeder emanating from 33/11KV Tuem S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem, Div-XVII, Mapusa in Mandrem Constituency.			24.00	0.00	24.00
Estimate for the work of supply, erection, testing & commissioning of 11KV, 3Core XLPE armoured cable of size 300sq.mm. for conversion of existing O/H 11KV Sodiem feeder emanating from 33/11KV Mapusa S/S to U/G System under the jurisdiction of S/D-III, Agarwada, Pernem, Div-XVII, Mapusa.			7.00	0.00	7.00
Estimate for the work of improvement of 11KV HT network of Undir & Durbhat feeder in Village Wadi Talaulim, Durbhat, Bandora, pert of Curit & part of Borim inhabited by the Scheduled Tribes population under Tribal Sub-Plan by converting 11KV HT OH lines to U/G cable under the jurisdiction of S/D-I, Div-X, Ponda			14.00	0.00	14.00
Estimate for the work of conversion of 11KV HT electrical network of Khadpabandh, Ponda-I, Bazar and part of Durbhat, Farmagudi & Curli feeders by converting 11KV HT O/H lines to U/G cable, under the jurisidiction of S/D-I, Div- X, Curti-Ponda.			15.00	0.00	15.00
Total			69.00	4.72	73.72
Projects Approved by EFC					
Conversion of existing O/H 11KV HT network to underground (U/G) cabling for Vasco Town under the Jurisdiction of Sub Division-I(U), Vasco,			0.00	0.00	0.00
Work of conversion of O/H HT network to underground HT network of 33KV Xeldem - Xelpem feeder in order to provide uninterrupted m power supply to Salaulim water works and Domestic consumers of Bhati, Uguem, Kalay V.P. areas and Sanguem Municipal areas in Sanguem Constituency.			0.00	0.00	0.00
Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-1 and Nessai 11 feeder from 220/33 KV Veldem Sub-Station to 33/11 KV KRC Sub-Station and Benaulim Sub-Station.			0.00	0.00	0.00
Work of conversion of existing overhead ACSR Racoon conductor to HTLS conductor of 33 KV Nessai-111 and Nessai-IV feeder from 220/33 KV Xeldem Sub-Station to 33/11KV KRC Sub-Station and Benaulim Sub-Station.			0.00	0.00	0.00
Work of supply, erection, testing and commissioning of 33/11kV, 2x 10 MVA, Indoor type Sub-Station (Electrical and Civil Works) at Mandrem under Sub Division-III Agarwada, Div XVII Mapusa.			0.00	52.00	52.00
Conversion of existing O/H 11 kV Balli feeder into undergound cabling system emerging from 33/11 kV Cuncolim Substationunder the jurisdiction of Elect. O&M Sub. Div-IV, Div-XVI, Cuncolim.			0.00	0.00	0.00
Work of conversion of O/H HT network to undergorund HT network in Chinchinium, Dharmapur & Sarzora area of Velim Contituency under the jurisdiction of Subdivision-II Chinchinim, Division-XVI Margao, in South Goa District.			0.00	0.00	0.00
Worth of Decign, Supply, Erection & Commissiong of 33 kV, 2x3 Core, 400 Sq.mm XLPE Cable from Cable from Ponda Sub-Station to Banastarim for a distance of 185 kms and 1x3 Core 185 Sq.mm XLPE Cable for a distance of 1.95 kms for providing reliable supply to kundaim, Marcel area and Industries of Kundaim Industrial Estate.			0.00	25.00	25.00

Work of conversion of Existing 11 KV (HT) overhead lines to underground cabling network for 11 KV Mandop feeder, 11 KV MES feeder, 11 KV Navelim feeder, emanating from 33/11 KRC Substation and provision for additional 11 KV Navelim Express feeder under Subdivision III, Navelim, Division IV, Margao Goa under Infrastructure Development Fund.			0.00	0.00	0.00
Work of upgrading of 220 KV PXR line by replacement of existing ACSR Drake Conductor with HTLS ACCC DRAKE Conductor from Ponda 220KV Ponda Sub-Station to 220KV Xeldem Sub-Station and replacement of polymer suspension insulator of 220KV AP-II Circuit from Ponda S/S to Kardi point.			0.00	0.00	0.00
Work of conversion of the existing overhead 11 KV line of Bicholim City, Assonora, Bordern and Bicholim IDC feeder emanating from 33/11 kV Bicholim Sub-station to underground cable system in the jurisdiction of Sub Division- I(U), Bicholim-Goa.			32.00	0.00	32.00
Work of conversion of existing LT O/H line of 11KV Kakoda Feeder & 11 KV Town-II feeder into underground cabling system in Curchorem Constituency.			0.00	44.00	44.00
Work of conversion of existing 33KV SC overhead Virdi II feeder to Double Circuit line with HTLS Conductor from 220 KV Amona Sub Station, under Sub Division – I(U), Bicholim.			0.00	0.00	0.00
Total			32.00	121.00	153.00
Projects tendered (To start next year)	 				
Tender No. 19(2020-21)/CSC: Tender for the Work of conversion of 11KV overhead network of Torla feeder to 11KV underground system along the road side from 33/11KV Shiroda substation under Sub Division II, Div. X, Ponda in Shiroda constituency			0.00	4.00	4.00
Tender No. 22(2020-21)/CSC: Work of conversion of 11KV S/C OH St. Cruz feeder to UG network by laying 11KV, 3Core 300sq.mm. aluminium armoured XLPE cable for a distance of 14.5 Kms along with associated equipments.			0.00	2.00	2.00
Tender No. 23(2020-21)/CSC: Work for conversion of 11KV SC OH Diwar feeder, Diwar and Chorao section in the jurisdiction of Sub Division-I, Division-I, Panaji.			0.00	12.00	12.00
Tender No. 24(2020-21)/CSC: Work of Supply, Laying, Testing & Commissioning of 33KV Core 400 sq.mm. XLPE U/G cable from 220/33KV Amona S/S for providing alternate power supply to 33/11KV Sankhali S/S.			0.00	9.00	9.00
Tender No. 25(2020-21)/CSC: Work of Supply and Laying of 33KV, 3C X 400sq.mm. XLPE Aluminium cable from Sonshi to Amona S/S.			0.00	2.30	2.30
Tender No. 26 (2020-21)/CSC: Work of conversion of 11KV S/C O/H Merces feeder to UG network by laying 11KV, 3Core 300s, mm. Aluminium Armoured XLPE cable for a distance of 13Kms along with associated equipments.			0.00	2.00	2.00
Tender No. 27(2020-21)/CSC: Work of conversion of existing 11KV overhead Industry feeder, 11KV cable Industry feeder and 33KV Unichem feeder to underground system and providing new 11KV feeder at Pileme Industrial Estate, Pileme under Sub Division-II, Porvorim.			0.00	8.00	8.00
Tender No. 29(2020-21)/CSC: Work of conversion of overhead 11KV Industry-IV feeder to 11KV underground system along the road from 33/11KV Kundia Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.			0.00	2.30	2.30
Tender No. 30(2020-21)/CSC: Work of conversion of overhead 11KV of Shiroda feeder to 11KV underground system along the road side from 33/11KV Bethora Sub- Station in Shiroda Constituency under Sub Division-II, Division-X, Ponda.			0.00	2.74	2.74
Tender No. 33(20-21)/CSC: Tender for the work of conversion of 11KV Industry-I/IIIII feeder to 11KV underground system along the road from 33/11KV Kundai Sub-Station in Priol Constituency under Sub Division-III, Division-X, Ponda.			0.00	5.00	5.00
Tender No. 37(20-21)/CSC: Tender for the work of conversion of overhead 11KV Sulcorna feeder to underground network from 33/11KVQuinamol, Rivona Sub- Station to Devrem transformer center under the jurisdiction of Sub DivisionII, Division-VII, Curchorem.			0.00	0.00	0.00
Tender No. 38(20-21)/CSC: Tender for the work of conversion of overhead 11KV Mollem feeder to underground network under the jurisdiction of Sub Division- IV, Division-VII, Curchorem.			0.00	14.00	14.00

			I			
Tender No. 39(20-21)/CSC: Tender for the work of						
conversion of overhead 11KV Dhat feeder to underground				0.00	11.00	11.00
network under the jurisdiction of Sub Division-IV, Division-						
VII, Curchorem.						
Tender No. 40(20-21)/CSC: Tender for the work of						
conversion of overhead 11KV Panchawadi feeder to				0.00	12.00	12.00
underground network under the jurisdiction of Sub Division-						
IV, Division-VII, Curchorem.						
Tender No. 07(2021-22)/CSC: Tender for the Work of						
conversion of existing 33KV MES single circuit line to						
double circuit line emanating from 220/33KV Cuncolim				0.00	0.00	0.00
substation to 33/11KV KRC substation under Div. IV,						
Margao						
Tender No. 10(2021-22)/CSC: Work of Supply, Erection,						
Testing and Commissioning 11KV 3Core, XLPE armoured						
Cable of size 300 Sq. mm. for conversion of existing				0.00	18.00	18.00
overhead 11KV Morjim Feeder to underground system				0.00	10.00	10.00
under the jurisdiction of Sub-Division-III, Agarwada, Div XVII						
- Mapusa.						
Tender No. 12(2021-22)/CSC: Supply, Laying, Testing and						
Commissioning of 33KV, 3 Core, 400 Sq.mm. XLPE cable double circuits (Velim-I & Velim-II) from 220/33KV Cuncolim				0.00	15.00	15.00
substation to 33/11KV Velim substation						
Tender No. 34(20-21)/CSC: Tender for the work of						
conversion of 11KV overhead network of Borim feeder to						
11KV underground system along the road side from				0.00	10.00	10.00
33/11KV Shiroda Sub-Station in Shiroda Constituency						
under Sub Division-II, Division-X, Ponda.						
Tender No. 35(20-21)/CSC: Tender for the work of						
conversion of 11KV overhead network of Nirankal feeder to						
11KV underground system along the road side from				0.00	3.50	3.50
33/11KV Bethora Sub-Station in Shiroda Constituency				0.00	0.00	0.00
under Sub Division-II, Division-X, Ponda.						
Total				0.00	132.84	132.84
10141				0.00	102.01	102.04
REVAMPED Distriution Projects						
Smart Meter and AMI				59.98	10.58	70.56
SCADA upgradation, cabling connection, infra					100.00	170.00
develipement, mordernization				68.00	102.00	170.00
Training and Placement				0.00	0.00	0.00
Total				127.98	112.58	240.56
Other Schemes						
Saligao 3/63 MVA 220X33 kV S/s at Saligao & Associated				0.00	0.00	0.00
D/C Lines						
Verna 220/110/33 kV				0.00	0.00	0.00
Upgradation of PONDA EHV S/s project				20.00	0.00	20.00
Tuem Project				42.00	0.00	42.00
Over Head to Underground Cuncholim Conocona				0.00	0.00	0.00
Xeldom S/s (220/33 63 MVA T/F)				0.00	0.00	0.00
Total				62.00	0.00	62.00
-						
Sub-Total				290.98	371.14	662.12
Sub-Total				633.41	434.34	1,067.75
				055.41	454.54	1,007.75
DEPOSIT WORKS					1	
DEPOSIT WORKS						
DEPOSIT WORKS GRAND TOTAL				633.41	434.34	1,067.75

 Notes:

 1. All schemes should necessarily be in the same serial order.

 2. Support with appropriate paper work i.e. Detailed Project Reports and other documents, as necessary.

 3. Codes for selecting Nature of work.

 a. EHV Schemes

 b. Distribution schemes

 (i) System improvement

 (iii) Schemes for distribution loss reduction

 c. Metering schemes

 d. Capacitor schemes

 e. SCADA / DSM etc schemes

 f. Miscellaneous schemes

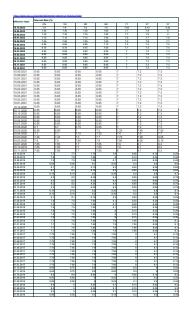
S.No			Done	FY 2022-23 Amount of	Amount of	
	Consumer Category	No of Consumers	Consumption (MU)	subsidy due from GOP (Rs.	subsidy Paid by GOP (Rs.	Balance Subsidy (Rs.
1		oonsumers	(into)	Crore)	Crore)	Crore)
1	Domestic 11 kV Voltage Level					
	Tariff HTD/Domestic	4	0.38	-0.01	-0.01	0.00
	Tariff-HTTS/Temporary Supply (HT Domestic)	0	0.00		0.00	0.00
	LT Voltage Level					
	Tariff LTD/Domestic and Non-Commercial	563341	1338.53	28.39	28.39	0.00
	0-100 units 101-200 units	216137	484.47 315.46	7.06	7.06	0.00
	201 to 300 units	93463	181.19	4.13	4.13	0.00
	301 to 400 units Above 400 units	44941 54560	106.12 251.29	2.93	2.93 8.05	0.00
	Above 400 units	54500			8.05	0.00
	Tariff LTD/Low Income Group	903	0.90	0.00	0.00	0.00
	Tariff-LT/Temporary Domestic	1755	1.03	-0.04	-0.04	0.00
	0-100 Units 101 to 200 Units	1755	0.46	-0.04	-0.04	0.00
	201 to 300 Units	0	0.00	0.00	0.00	0.00
	301 to 400 Units Above 400 Units	0	0.00	0.00	0.00	0.00
-						
	Sub-Total	566004	1340.84	28.34	28.34	0.00
2	Commerical					
	33 kV & 11 kV Voltage Level Tariff HT-Commercial	315	166.40	-34.65	-34.65	0.00
		515	100.40	-04.00	-54.00	0.00
	LT Voltage Level					
	LT Voltage Level Tariff-LTC/Commercial	108068	496.95	-16.55	-16.55	0.00
	0-20 KW/Commercial Consumers					
	1-100 Units 101-200 units	60769 15206	75.94 46.92	-0.35	-0.35 0.03	0.00
	201-400 Units	13173	58.34	1.51	1.51	0.00
	Above 400 units >20-90Kw Commercial Consumers	15593	182.79	60.64	60.64	0.00
	1-100 Units	397	3.77	-2.31	-2.31	0.00
	101-200 units 201-400 Units	111 210	3.59	-1.84	-1.84	0.00
	Above 400 units	2608	118.78	-70.38	-70.38	0.00
	>90 KW Commercial consumer 0 - 100 units	0	0.00	0.00	0.00	0.00
	101 - 200 units	0	0.00	0.00	0.00	0.00
	201-400 units Above 400 units	0	0.00	0.00	0.00	0.00
	Tariff-LT/Temporary Commercial 0-20 KW/Commercial Consumers	3248	2.94	7.41	7.41	0.00
	0-100 Units	3248	2.94	7.41	7.41	0.0
	101 - 200 Units 201 - 400 Units	0	0.00	0.00	0.00	0.0
	Above 400 Units	0	0.00	0.00	0.00	0.0
	>20-90Kw and above Commercial Consumers	0	0.00	0.00	0.00	0.0
	0 - 100 units 101 - 200 units	0	0.00	0.00	0.00	0.00
	201-400 units	0	0.00	0.00	0.00	0.00
	Above 400 units	0	0.00	0.00	0.00	0.00
	Sub-Total	111647	672.44	-50.11	-50.11	0.00
3	Public Lighting					
	LT Voltage Level					
	Tariff-LTPL/Public Lighting Unmetered LTPL	6284	47.56	-3.25	-3.25	0.00
4						
4	Agricultural Pumpsets					
	HT Voltage Level (33 kV & 11 kV) HT-Agriculture					
	Tariff-HTAG/Agriculture (Pump		6.32			
		43			-0.21	0.0
	Sets/Irrigation) (A)	43	14.47	-0.21	-0.21	
	Sets/Irrigation) (A) (B)	43	14.47	-0.21	-0.21	
	(B) LT Voltage Level		14.47			
	(B) LT Voltage Level LT-Agriculture Tariff-LTAG/Agriculture (Pump	3		-1.02	-1.02	0.0
	(B) LT Voltage Level LT-Agriculture Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	12742	18.50	-1.02	-1.02	0.0
	(8) LT Voltage Level Tariff-LTAC/Agriculture (Pump Sets/Irrigation) (A) Tariff-LTAG/Agriculture Allied (8)	3 12742 295		-1.02 -0.64 -0.18	-1.02 -0.64 -0.18	0.0
	(B) LT Voltage Level LT-Agriculture Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	12742	18.50	-1.02	-1.02 -0.64	0.0
5	(B) LT Voltage Level Toriff-LTAG/Apriculture Toriff-LTAG/Apriculture (Pump SetLyringation) (A) Toriff-LTAG/Apriculture Ailed (B) Sub-Total Smail Power	3 12742 295	18.50	-1.02 -0.64 -0.18	-1.02 -0.64 -0.18	0.0
5	(8) LT Voltage Level Tariff-176/Apriculture Sets/ingation (A) Tariff-176/Apriculture Allied (B) Sub-Total Small Power LT Voltage Level	3 12742 295 13084	18.50 1.44 40.73	-1.02 -0.64 -0.18 -2.05	-1.02 -0.64 -0.18 -2.05	0.0
5	(B). LT Voltage Level Tariff-176(Apriculture Vime Tariff-176(Apriculture Vime Sets/Inigation) (A) Tariff-176(Apriculture Alled (B) Sub-Total Smail Power LT Voltage Level LT Voltage Level UT Voltage Job Units O-500 Units	3 12742 295 13084 5851 4032	18.50 1.44 40.73 91.06 17.11	-1.02 -0.64 -0.18	-1.02 -0.64 -0.18 -2.05 -6.19 -1.09	0.0
5	(B) IT Voltage Level Tariff-176/Apriculture (Pump Tariff-176/Apriculture Alimer Sets/Inrigation) (A) Tariff-17A6/Apriculture Alimer (B) Sub-Total Small Power IT Voltage Level IT-Industry 0-500 Units Above 500 Units	3 12742 295 13084 5851 4032 1820	18.50 1.44 40.73 91.06 17.11 73.95	-1.02 -0.64 -0.18 -2.05 	-1.02 -0.64 -0.18 -2.05 -2.05 -1.09 -5.10	0.00
5	(B). LT Voltage Level Tariff-17A(Spriculture Tariff-17A(Spriculture Nime) Sets/Ingriculture Nime Sets/Ingriculture Nime (B) Tariff-17A(Spriculture Nime (B) Sub-Total Smail Power LT Voltage Level LT-Sndustry 0-500 Units	3 12742 295 13084 5851 4032	18.50 1.44 40.73 91.06 17.11	-1.02 -0.64 -0.18 -2.05 -6.19 -1.09	-1.02 -0.64 -0.18 -2.05 -6.19 -1.09	0.00
5	(B) IT Voltage Level Tariff-176/Apriculture (Pump Tariff-176/Apriculture Alimer Sets/Inrigation) (A) Tariff-17A6/Apriculture Alimer (B) Sub-Total Small Power IT Voltage Level IT-Industry 0-500 Units Above 500 Units	3 12742 295 13084 5851 4032 1820	18.50 1.44 40.73 91.06 17.11 73.95	-1.02 -0.64 -0.18 -2.05 	-1.02 -0.64 -0.18 -2.05 -2.05 -1.09 -5.10	0.00 0.00 0.00 0.00 
5	(B) IT Voltage Level IT-Agriculture Tariff-17AC/Agriculture Alline Setty/ingotion (A) Tariff-17AG/Agriculture Allied (B) Sub-Total IT Voltage Level LT-Industry 0-300 units Tariff-LTP/Maed (Hotel Industries) Sub-Total	3 12742 295 13084 5851 4032 1820 119	18.50 1.44 40.73 91.08 17.11 73.95 4.04	-1.02 -0.84 -0.18 -2.05 -2.05 	-1.02 -0.64 -0.18 -2.05 -6.19 -6.19 -5.10 0.19	0.00 0.00 0.00 0.00 
5	(B) IT Voltage Level IT Activities Tartf-176(Apriculture Nime SetsUningotion) (A) Tartf-176(Apriculture Nime Sub-Total Small Power IT Voltage Level IT-Industry G-500 Units Tartff-17P(Mixed (Hotel Industries) Sub-Total Sub-Total Medium Supply 111V, Large Supply 33 kV & B kik Supply 110 V	3 12742 295 13084 5851 4032 1820 119	18.50 1.44 40.73 91.08 17.11 73.95 4.04	-1.02 -0.84 -0.18 -2.05 -2.05 	-1.02 -0.64 -0.18 -2.05 -6.19 -6.19 -5.10 0.19	0.00 0.00 0.00 0.00 
	(8). LT Voltage Level Tariff-17A(Arginiculture Rime Tariff-17A(Arginiculture Rime Sets/Inigration) (A) Tariff-17A(Arginiculture Allined (8) Sub-Total Small Power LT Voltage Level LT Voltage Level LT Voltage Level Sub-Total Medium Supply 11kV, Large Supply 33 kV 8.8uk Supply 11kV, Large Supply 33 kV 38 JV / 11 kV allo V Voltage Level	3 12742 295 13084 5851 4032 1820 119	18.50 1.44 40.73 91.06 17.11 73.95 4.04 95.10	-1.02 -0.84 -0.18 -2.05 -2.05 	-1.02 -0.64 -0.18 -2.05 -2.05 -1.09 -1.09 -5.10 0.19 -0.10 -0.19 -	0.00 0.00 0.00 -4.0 79.0 3.88 101.11
	(8). LT Voltage Level Tariff-17A(Arginiculture Rime) Sets/frigitulture Rime Sets/frigitulture Rime Sets/frigitulture Rime Sub-Total Small Power LT Voltage Level LT-Industry -0-500 Units Above 500 Units Tariff-LTP/Mixed (Hotel Industrie) Sub-Total Medium Supply 11kV, Large Supply 33 kV & 8.0ki Supply 11kV, Large Supply 31 kV & 8.0ki Supply 11kV, Large Supply 31 kV & 8.0ki Supply 11kV, Large Supply 31 kV & 8.0ki Supply 11kV, Large Supply 31 kV & 8.0ki Supply 11kV, Large Supply 31 kV & 8.0ki Supply 11kV, Large Supply	3 12742 295 13084 4032 1820 119 199 199 807 807 807	18.50 1.44 40.73 91.06 91.06 95.10 95.10 95.10 95.11 1448.28	-1.02 -0.64 -0.18 -2.05 	-1.02 -0.64 -0.18 -2.05 -1.09 -6.10 -0.19 -0.19 -0.19 -0.148 -0.148	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	(B) IT Voltage Level IT Activation of the second se	3 12742 285 13084 5851 13084 4032 1820 1189 5971 5971 807 807 807 807 807	18.50 1.44 40.73 91.06 17.11 73.95 4.04 95.10 95.10 1095.31 1448.28 247.03	-1.02 -0.64 -0.18 -0.19 -0.109 -0.109 -0.109 -0.109 -6.00 -0.19 -0.188 -0.188 -0.188 -0.188 -0.188 -0.188 -0.184 -0.194 -	-1.02 -0.64 -0.18 -0.18 -0.109 -0.109 -0.109 -0.109 -0.199 -0.199 -0.148 -0.1148 -0.1488 -0.148 -0.1488 -0.1488 -0.1488 -0.1488 -0.1488	0.00 0.00 0.00 4.0 79.0 3.80 101.11 101.11
	(B) IT Voltage Level IT Activation of the second se	3 12742 285 13084 4032 1820 1820 1820 1820 1820 1820 1820 182	18.50 1.44 40.73 91.06 17.11 73.95 4.04 95.10 95.10 95.10 1095.31 1448.28 247.03 500.17	-1.02 -0.84 -0.18 -2.05 -4.109 -4.109 -6.90 -6.90 -6.90 -6.90 -6.91.48 -0.47 -7.32	-1.02 -0.64 -0.18 -2.05 -2.05 -4.19 -1.09 -5.10 0.19 -6.00 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.49 -9.	0.00 0.00 0.00 0.00 0.00 75.0 75.0 3.88 101.11 101.11 101.11 0.00 0.00 0.00
	(8). LT Voltage Level Tariff-17A(/Apriculture Vimp Sets/ingiculture (Nimp Sets/ingiculture (Nimp Sets/ingiculture (Nimp Sets/ingiculture (Nime) Sub-Total Small Power LT Voltage Level LT-Industry -0-500 Units Above 500 Units Tariff-LTP/Mixed (Hotel Industrie) & Sub-Total Medium Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 8.uik Supply 11kV, Large Supply 33 kV & 11kV H.T.Industrial (Ferro Mettallongical) Steel	3 12742 285 13084 5851 13084 4032 1820 1189 5971 5971 807 807 807 807 807	18.50 1.44 40.73 91.06 17.11 73.95 4.04 95.10 95.10 1095.31 1448.28 247.03	-1.02 -0.64 -0.18 -0.19 -0.109 -0.109 -0.109 -0.109 -6.00 -0.19 -0.188 -0.188 -0.188 -0.188 -0.188 -0.188 -0.184 -0.194 -	-1.02 -0.64 -0.18 -0.18 -0.109 -0.109 -0.109 -0.109 -0.199 -0.199 -0.148 -0.1148 -0.1488 -0.148 -0.1488 -0.1488 -0.1488 -0.1488 -0.1488	0.00 0.00 0.00 0.00 0.00 75.0 75.0 3.88 101.11 101.11 101.11 0.00 0.00 0.00
	(B) IT Voltage Level IT Activation of the second se	3 12742 285 13084 4032 1820 1820 1820 1820 1820 1820 1820 182	18.50 1.44 40.73 91.06 17.11 73.95 4.04 95.10 95.10 95.10 1095.31 1448.28 247.03 500.17	-1.02 -0.84 -0.18 -2.05 -4.109 -4.109 -6.90 -6.90 -6.90 -6.90 -6.91.48 -0.47 -7.32	-1.02 -0.64 -0.18 -2.05 -2.05 -4.19 -1.09 -5.10 0.19 -6.00 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.48 -9.1.49 -9.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
6	(8) LT Voltage Level Tariff-17AG/Agriculture Sets/ingriculture [Aller] Sets/ingriculture Aller] Sub-Total Sub-Total Control Co	3 12742 295 13084 4032 1820 1199 9 9 9 9 9 9 9 9 9 9 9 7 807 807 807 6 6 2 3 807 807 807 807 807 807 807 807 807 807	18.50 1.44 40.73 91.06 17.11 73.955 4.04 95.10 95.10 1995.31 1468.22 247.03 500.17 31.87	-1.02 -0.84 -0.18 -2.05 -4.109 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -7.32 -6.27	-1.02 -0.64 -0.16 -2.06 -2.06 -4.109 -1.00 -6.00 -6.00 -6.00 -6.00 -6.05 -6.05 -6.15 -6.77	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	(8) LT Voltage Level Tariff-17AG/Apriculture Sets/ingriculture [Num] Sets/ingriculture Allied [8] Tariff-17AG/Apriculture Allied [8] Sub-Total Small Power LT Voltage Level LT Voltage Level LT Voltage Level LT Voltage Level LT Notage Supply 314V (Jarge Supply 32) Medium Supply 314V (Jarge Supply 33) AV Ja Bok Supply 1314V (Jarge Supply 33) AV Ja V / J1 V A 110 V Voltage Supply 33) AV McLaudurial (Ferror Metallangical) Steel Medium Supply 1314V (Jarge Supply 33) AV H.T.Jacdurial (Ferror Metallangical) Steel McLaudurial (Ferror Metallangical) Steel McLaudurial (Ferror Metallangical) Steel McLaudurial (Supply 13) AV JIBW	3 12742 295 13084 4032 1820 1199 9 9 9 9 9 9 9 9 9 9 9 7 807 807 807 6 6 2 3 807 807 807 807 807 807 807 807 807 807	18.50 1.44 40.73 91.06 17.11 73.955 4.04 95.10 95.10 1995.31 1468.22 247.03 500.17 31.87	-1.02 -0.84 -0.18 -2.05 -4.109 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -7.32 -6.27	-1.02 -0.64 -0.16 -2.06 -2.06 -4.109 -1.00 -6.00 -6.00 -6.00 -6.00 -6.05 -6.05 -6.15 -6.77	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
6	(8).  LT Voltage Level  Tariff-17A(Arginiculture Rime) Sets/inginiculture (Rime) Sets/inginiculture (Rime) Sub-Total  Sub-Total  LT Voltage Level  LT Voltage Level  LT Voltage Level  Adver 500 Units Adver 5	3 112742 285 13084 4032 1820 1820 1820 1820 1820 801 801 801 801 801 801 801 801 801 80	18.50 1.44 40.73 91.06 91.06 95.10 95.10 95.10 95.10 1096.31 1446.28 247.03 50.17 31.87 31.87 31.87	-1.02 -0.64 -0.18 -2.05 -1.00 -5.10 -5.10 -5.10 -5.10 -5.10 -6.00 -7.12 -6.00 -7.12 -6.00 -7.12 -7.72 -7.12	-1.02 -0.64 -0.18 -2.05 -1.00 -5.10 -5.10 -5.10 -5.10 -5.10 -5.10 -5.10 -5.10 -7.10 -7.12 -7.72 -7.12	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
6	(8) LT Voltage Level Tariff-17AG/Apriculture Sets/ingriculture Nimed Sets/ingriculture Nimed Sub-Total Sub-Total Sub-Total Voltage Level LT Voltage	3 12742 295 13084 4032 1820 1199 9 9 9 9 9 9 9 9 9 9 9 7 807 807 807 6 6 2 3 807 807 807 807 807 807 807 807 807 807	18.50 1.44 40.73 91.06 17.11 73.955 4.04 95.10 95.10 1995.31 1468.22 247.03 500.17 31.87	-1.02 -0.84 -0.18 -2.05 -4.109 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -6.00 -7.32 -6.27	-1.02 -0.64 -0.16 -2.06 -2.06 -4.109 -1.00 -6.00 -6.00 -6.00 -6.00 -6.05 -6.05 -6.15 -6.77	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
6	(8) LT Voltage Level Tariff-17AG/Apriculture Sets/ingriculture [Num] Sets/ingriculture [Num] Source [LT Arac]/Apriculture Allied [8] Tariff-17AG/Apriculture Allied [8] Source [1] LT Voltage Level LT Voltage Level LT Voltage Level Tariff-1TP/Mixed [Hotel Houtaries] Source [1] A Book Supply 131V, Large Supply 23 kV a Book Supply 131V, Large Supply 23 kV A Book Supply 131V, Large Supply 23 kV 30 kV / L1 kV 4 10 kV Voltage Level Medium Supply 131V, Large Supply 23 kV 110kV 131 kV A 10 kV Voltage Level Medium Supply 131V, Large Supply Bigle Point Supply Single Point Supply Periodentic Complexes Commercial Complexes	3 12742 295 5851 13084 4032 1820 1820 1820 807 807 807 807 807 807 807 807 807 80	18.50 1.44 40.73 91.06 17.11 73.355 4.04 95.10 9	4.102 4.102 4.19 4.19 4.109 4.100 4.0000 4.000 4.00000 4.00000 4.00000 4.00000 4.00000 4.00000 4.0000000 4.0000000000	-1.02 -0.64 -0.18 -2.05 -1.09 -6.10 0.19 -6.10 0.19 -6.00 -6.10 -0.19 -6.00 -6.10 -0.19 -0.15 -0.47 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.55 -0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
6	(8) LT Voltage Level Tariff-17A(Arginulture Nime) Sets/inginulture Nime) Sets/inginulture Nime) Sub-Total Sub-Total Voltage Level LT Voltage Level LT Voltage Level LT Voltage Level Above 500 Units Above 500 Units A	3 12742 295 13364 4022 1820 1820 1820 1820 1820 8010 8010 8	18.50 1.44 1.44 91.06 91.06 95.10 95	-1.02 -0.64 -0.18 -2.05 -0.19	-1.02 -0.64 -0.18 -2.05 -2.05 -0.19 -0.19 -0.19 -0.19 -0.19 -0.140 -0.14	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
6	(8) LT Voltage Level Tariff-17AG/Apriculture Sets/ingriculture [Num] Sets/ingriculture [Num] Source [LT Arac]/Apriculture Allied [8] Tariff-17AG/Apriculture Allied [8] Source [1] LT Voltage Level LT Voltage Level LT Voltage Level Tariff-1TP/Mixed [Hotel Houtaries] Source [1] A Book Supply 131V, Large Supply 23 kV a Book Supply 131V, Large Supply 23 kV A Book Supply 131V, Large Supply 23 kV 30 kV / L1 kV 4 10 kV Voltage Level Medium Supply 131V, Large Supply 23 kV 110kV 131 kV A 10 kV Voltage Level Medium Supply 131V, Large Supply Bigle Point Supply Single Point Supply Periodentic Complexes Commercial Complexes	3 12742 295 5851 13084 4032 1820 1820 1820 807 807 807 807 807 807 807 807 807 80	18.50 1.44 40.73 91.06 17.11 73.355 4.04 95.10 9	4.102 4.102 4.19 4.19 4.109 4.100 4.0000 4.000 4.00000 4.00000 4.00000 4.00000 4.00000 4.00000 4.0000000 4.0000000000	-1.02 -0.64 -0.18 -2.05 -1.09 -6.10 0.19 -6.10 0.19 -6.00 -6.10 -0.19 -6.00 -6.10 -0.19 -0.15 -0.47 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.55 -0	000 000 000 000 000 000 000 000 000 00
6	(8) LT Voltage Level Tariff-17AG/Apriculture Nime Sets/injeciture Nime Sets/injeciture Allined (8) Tariff-LTAG/Apriculture Allined (8) Sub-Total Sub-Total LTI-industry Above 500 units Above 500 units Tariff-LTP/Maed (Hotel Industries) Sub-Total Medium Supply 113V, Large Supply 33 kV & Bulk Supply 113V, Large Supply 33 kV/14V Bulk Supply 113V, Large Supply 33 kV/14V H.T.Industrial (Ferro Mettallurgical) Seet Medium Supply 113V, Large Supply 33 kV/14V H.T.Industrial (Ferro Mettallurgical) Seet Mething / Power Intensio) H.T. MES/Defence Establishments Sub-Total Bulk Supply 33 kV Voltage Level Supl Point Supply Balk Supply 34 kV Voltage Level Sub-Total Sub-Total Sub-Total	3 12742 295 13364 4032 1820 1820 1820 801 6 233 801 6 233 144 845 845	16.501 1.44 073 9106.0473 95105 9510 9510 9510 9510 9510 9510 951	4.102 4.102 4.19 4.19 4.09 4.100 4.100 4.100 4.0000 4.0000 4.00000 4.00000 4.00000 4.00000 4.00000000 4.000000000 4.0000000000	-1.02 -0.64 -0.18 -2.05 -1.09 -6.10 0.19 -6.10 0.19 -6.00 -6.10 -0.19 -0.15 -0.47 -7.32 -6.27 -7.27 -6.27 -7	000 000 000 000 000 000 000 000 000 00
6	(8) LT Voltage Level Tariff-17AG/Apriculture Nime Sets/injecirulure (Nime) Sets/injecirulure (Nime) Sub-Total Sub-Total Sub-Total LT Voltage Level LT Voltage Level LT Voltage Level LT August (Nove Stolmanne) Sub-Total Medium Supply 13kV, Large Supply 33 kV & Bulk Supply 10 kV 35 kV / 11 kV & 110 kV Voltage Level Medium Supply 13kV, Large Supply 33 kV & Bulk Supply 10 kV Bulk Supply H.T. MES/Defence Establaments Sub-Total Bulk Supply BB kV Voltage Level Sub-Total Bulk Supply BB kV Voltage Level Sub-Total Bulk Supply BB kV Voltage Level Sub-Total BV Voltage Level	3 12742 295 13364 40322 1820 119 5971 801 6 6 233 144 845 845 1 0 0 1 1	16.50 1.44 (17) 1.44 (17) 1.00 17,110 17,155 4.04 95 (10) 17,155 4.04 19,155 17,155 19	4.102 4.102 4.19 4.19 4.09 4.00	-1.02 -0.64 -0.18 -2.05 -1.09 -1.09 -6.10 0.19 -6.10 0.19 -6.00 -6.10 -0.19 -6.00 -6.10 -0.19 -0.15 -0.47 -0.27 -0	
6	(8).  If Voltage Level  Tariff-17A(Apriculture Nump Sets/ingiculture Nump Sets/ingiculture Nump Sets/ingiculture Nume Sub-Total  Sub-Total  Voltage Level  If Voltage Level  Kit Nature Nump Above Southiss Automation  Medium Supply 111V, Large Supply 33 kV  R Buik Supply 111V, Large Supply 33 kV  H.T.McS/Defence Establishce  H.T.McS/Defence Establishce  Buik Supply Bit Voltage Level  Sub-Total  Commercial Complexes  Sub-Total  Other Categories  Sit Voltage Level Bit Volta	3 12742 295 13364 4032 1820 1820 1820 801 6 233 801 6 233 144 845 845	16.501 1.44 073 9106.0473 95105 9510 9510 9510 9510 9510 9510 951	4.102 4.102 4.19 4.19 4.09 4.100 4.100 4.100 4.0000 4.0000 4.00000 4.00000 4.00000 4.00000 4.00000000 4.000000000 4.0000000000	-1.02 -0.64 -0.18 -2.05 -1.09 -6.10 0.19 -6.10 0.19 -6.00 -6.10 -0.19 -0.15 -0.47 -7.32 -6.27 -7.27 -6.27 -7	
6	(8).  If Voltage Level  Tariff-17A(Apriculture Nump Sets/ingiculture (Nump Sets/ingiculture Nump Sets/ingiculture Nump Sets/ingiculture Nump Sets/ingiculture Nump Supp)  Voltage Level  Voltage Level  Medium Supply 114V, Large Supp) 33 kV  R Buik Supply 116V, Large Supp)  H.T. MES/Defence Establishmets  H.T. MES/Defence Establishmets  R.T. MES/Defence R.T. R.T. MES/Defence R.T. R.T. MES/Defence R.T. R.T. R.T. R.T. R.T. R.T. R.T. R.T.	3 12742 205 13364 800 119 807 807 807 807 807 807 807 807 807 807	18.50 1.44 1.44 1.73 1.73 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	-1.02 -0.64 -0.18 -2.05 -6.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.000 -0.00	-1.02 -0.64 -0.18 -2.05 -2.05 -3.10 -0.19	
6	(8) LT Voltage Level Tariff-17AG/Agriculture Tariff-17AG/Agriculture Allined Setty. Trianget of the setty of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set is set of the set set set set is set of the set set set set set set set set set se	3 12742 295 133084 40322 18200 1199 5971 801 6 6 233 144 845 845 1 1 0 0 1 1	16.50 1.44 40.72 91.06.04 95.10	4.102 4.102 4.19 4.19 4.09 4.00	-1.02 -0.64 -0.18 -2.05 -0.109 -1.09 -5.10 0.199 -6.10 0.199 -6.10 0.199 -6.00 -0.199 -0.199 -0.199 -0.199 -0.99 -0.99 -0.000 -0.0000 -0.00000 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000 -0.000	

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Particulars	Type of Loan	Gross Loan -	ADD DV245	Lass: Hapayin	Cibering manan	Average to a	n (e i sate ce sa	erest interest of	11280 010	Geeligen - A	DO DVIMIS	Less: Repaynen	Coung samos	Average sam	Rate of siders	at interest on la	an Gross Loan -	Abd Dynell	Less: Repays	rus crosing many	a Average sam	(e seate ce sizare)	at interest on its	ian Grides Loar	Add: Drawis	Less:	Cloung	Gerage loan	Hara or 105	erest on GHS	HELCON - AD	a orawis	Late: Cice	ng Average	Kate o	r szeresz a	on Gross	Add: Li	tee: closes	g Average	Kate of	JEANAGE GIOD	ADD DV24	a Lease	closing Aver	rage Hate of	interest on
Paticular	(whether "PS" of	Opening (*	during the ye	ar of Loan durin	g of ican	crore)	on loan	(%) (f cror	<li>e) Og</li>	pening (f dur	ing the year	of Loan during	of icen	crore)	os loas (*	<li>(e crore)</li>	Opening (*	during the ye	of Loan durk	g of ican	crore)	osicas (%	(f crore)	- Opening	during the	Repayment of	Italiance of icen	(f crore) in	tenest on loan	(f Opi	ening (f du	using the Repo	symect of Balan	a of (f cro	(e) interact	on loan	Loan -	Drawls Rep.	symen Balance	v of Joan (f	interest /	on icen Loan	s- during the	Repayment of	Balance of Joan	taesatri 9) n	isan
	-WC-)	crore)	(# crore)	the year	(f (f crore)					Crore)	(if crore)		t (t crore)				Crore)	(if crore)	the year	(f (f crore)				(E crore)	year .	Loan during	(I crore)		lican c	crore)	crore) yea	r (f Loa	s during los		ioan -	(%) (# crore	) Opening d	uring the t of	Loan loan	. crore)	onlican /	(Crore) Openin	ing year	(f Loan during	ioan cro	are) os loas	(e crore)
				crore)								crore)							crore)						(e crore)	the year			(74)				e year (? cr	ew)			(erona)	year duri	agithe (if cros	4)	(04)	(e cron	re) crore)	the year	(if crore)	04	( L
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1	2																							2	•	5		,		*	12	11	12 1	3	15	5	17		20	27	22	22 24	25	28	22 2	22	20
Normative Loan		252.81	i 1	\$22 55	21 212	45 23	2.05	3.85%	22.25	212.85	11.71	55.5	4 168.7	2 19	79 12.4	25 25	<b>\$5</b> 168.	2 21	8.02	.60 125	67 181	29 9.5	25. 1	137 12.0	24.14	543	213.57	294.32	8.79%	17.88	213.57	\$3.95	0.00	247.37 2	40.47 8	.00%	3.24 247.32	183.25	59.52 43		4 8.00%	26.76 401	6.71 286	22 77.25	719.75 56	80.73 £.00%	44.05
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o of Weighted Average Rate of Interest on Actual Loans

Hotes: 1: VSF releases to Project Specific Lean. "WC" releas to Working Capital Lean. 2: Catulation should only be done for phropial not overdue. One-due principal, penal interest etc. shall not be considered. 3: Inplace of Lean J. Lean 2 etc. markins the same of Handing apercy.





## Working Capital Requirements

or Whee	ling Business			
			Contro	l Period
S. No.	Particulars	Ref. Form No.	Proje	ctions
			FY 2022-23	FY 2023-24
A)	O&M Expenses for Wire Business			
i)	R&M Expenses		49.16	49.16
ii)	A&G Expenes		16.87	17.87
iii)	Employee Cost		163.48	174.21
iv)	Total O&M Expenses		229.52	241.23
v)	O&M Expenses for wire business for 1 month		19.13	20.10
В	Maintenance Spares (@ 40% of R&M Expenses)		1.64	1.64
С	Receivables equivalent to two (2) month of the expected revenue from charges for use of Distribution Wires at the prevailing tariffs.	Fixed Charges	47.34	56.86
D	Less: Amount, if any, held as security deposits from Distribution System Users		9.96	12.64
Е	Total Working Capital (A (v)+B+C-D)		58.15	65.96
F	Rate of Interest **		9.00%	9.00%
G	Interest on Working Capital		5.23	5.94

	FY 20	21-22	FY 202	22-23	FY 2023-24			
	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		
Revenue			284.07	1879.69	341.14	1909.46		

\*\*The Interest rate for this purpose shall be the rate as specified in Regulations

For Retail	Supply Business			
			Contro	l Period
S. No.	Particulars	Ref. Form No.	Proje	ctions
			FY 2022-23	FY 2023-24
A)	O&M Expenses for Retail Supply Business			
i)	R&M Expenses		5.46	5.46
ii)	A&G Expenes		16.87	17.87
iii)	Employee Cost		245.23	261.31
iv)	Total O&M Expenses		267.56	284.64
v)	O&M Expenses for retail supply business for 1 month		22.30	23.72
В	Maintenance Spares (@40% of R&M Expenses for Retail Supply Business)		0.18	0.18
С	Receivables equivalent to 2 months of average of total revenue from sale of energy,	Energy	360.63	275 40
	approved by Commission in the ARR	Charges	300.03	375.10
D	Less: Consumer Security Deposit		89.63	113.72
E	Less: One month of power procurement cost		185.85	167.83
F	Total Working Capital (A (v) + B + C - D -E)		107.62	117.46
	·			
G	Rate of Interest **		9.00%	9.00%
Н	Interest on Working Capital		9.69	10.57

\*\*The Interest rate for this purpose shall be the rate as specified in MYT Regulation

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

					Contribution					FY 2017-18					Contribution				FY 201
		Rate of Dep	Rate of Dep		from Subsidies/ Grants/	Value of Asset		Fixed As	sets. excluding	Consumer Con	tribution /Grant	s/Subsidies			from Subsidies/ Grants/	Value of Asset	Fixe	d Assets, exclu	ding Consume
6	Rate of	for addition	for addition	Amount (₹	Beneficiaries'	eligible for						I	Amount (₹	Beneficiaries'	eligible for	TING	a Assets, excit	ung consumer	
No Particulars	Depreciation (%)	FY 19-20 onwards	FY 22-23 onwards	crore) (A)	Contribution / Consumers Contribution (B)	depreciation (C=A-B)	At the start of the Year (GFA)	At the start of the Year (GFA without ED Fund)	Addition during the Year (D=C)	Deduction	Total Depreciable base	At the end of the Year	Depreciation	crore) (A)	Contribution / Consumers Contribution (B)	depreciation (C=A-B)	At the start of the Year	Addition during the Year (D=C)	Deduction
1 Land			0.00%		0.00							5.31	0.00		0.00		5.31	0.00	
2 Building	3.34%	1.80%	1.80%		0.00							10.40	0.35		0.00		10.40	0.00	0.02
3 R.C.C. Tank	5.28%	1.80%	1.80%		0.00			0.75				0.75	0.04		0.00		0.75	0.00	0.01
4 Plant & Machinery	5.28%	3.60%	3.60%	0.25		0.20		85.07				85.26	4.50	0.00	0.00		85.26	0.00	0.00 0.53 0.23
5 Transformer above 100KVA	5.28%	3.60%	3.60%	1.92		1.52		102.67				103.64	5.46	7.12	4.29		103.64	2.84	0.53
6 Transformer below 100KVA	5.28%	3.60%	3.60%	2.41		1.90		62.36				64.07	3.34	0.64	0.39		64.07	0.25	0.23
7 Static Machine Tools	5.28%	6.00%	6.00%		0.00			2.00				2.00			0.00		2.00	0.00	0.16
8 Self Propelled vehicles	9.50%	18.00%	18.00%	0.01								2.90	0.28	0.02	0.01		2.90	0.01	0.12
9 Switch gear & S/S Equipment	5.28%	3.60%	3.60%	0.92	0.19	0.72		59.70				57.55	3.17	0.98	0.59		57.55	0.39	
10 Meters	5.28%	9.00%	9.00%		0.00	0.00	73.54	62.02	0.00	2.27		59.75	3.27		0.00	0.00	59.75	0.00	0.26
11 Office furniture	6.33%	1.80%	6.00%	0.03	0.01	0.03	1.27	1.07	0.03	0.02		1.07	0.07	0.10	0.06	0.04	1.07	0.04	0.02
12 Office Equipments	6.33%	6.00%	6.00%		0.00	0.00	1.77	1.50				1.50	0.09	0.04	0.02	0.02	1.50	0.02	
13 LT & HT Overhead Lines	5.28%	3.60%	3.60%	10.30	2.17	8.13	357.09	301.12	8.13	0.76		308.49	16.11	19	11.41	7.54	308.49	7.54	0.54
14 Lightning Arrestors																			
a Pole Type	5.28%	6.00%	6.00%	0.05	0.01	0.04	8.23	6.94	0.04	0.15		6.83	0.37		0.00	0.00	6.83	0.00	2.19
b Station Type																			
15 Batteries	5.28%	18.00%	18.00%		0.00			0.39		0.08		0.31	0.02	0.08	0.05		0.31	0.03	0.01
16 Street light fixtures	5.28%	6.00%	6.00%	8.99	1.90	7.10	40.80	34.41		0.62		40.88	2.00	2.03	1.22	0.81	40.88	0.81	0.03
17 Service lines	5.28%	3.60%	3.60%		0.00	0.00		14.52				14.26	0.77		0.00	0.00	14.26	0.00	0.37
18 Under Ground Lines	5.28%	2.57%	2.57%		0.00			158.75				158.75	8.38		0.00		158.75	0.00	
19 Sub stations	5.28%	3.60%	3.60%		0.00	0.00		14.34				14.34	0.76		0.00	0.00	14.34	0.00	
20 Testing Equipments	6.33%	6.00%	6.00%	2.13	0.45	1.68						15.98	0.96	9.13			15.98	3.63	
21 IT Equipments	6.33%	6.00%	15.00%		0.00	0.00	70.93	59.82	0.00			59.82	3.79		0.00	0.00	59.82	0.00	
22 Distribution acceseries	5.28%	3.60%	3.60%	0.54	0.11	0.42	30.57	25.78	0.42			26.20	1.37	2.92	1.76	1.16	26.20	1.16	
23 Others Contingency																			
TOTAL				27.55	5.81	21.74	1216.92	1026.18	21.74	7.85	0.00	1040.06	55.21	42.01	25.29	16.72	1040.06	16.72	4.49
Total as per Audited Account (for True up year																			
only)					1		1				1								

#### Form F15

### Fixed Assets & Provision for Depreciation

		Fixed As	ssets & Provisi	ion for Depre	clation																		
	Fixed Assets and Depreciation For True Up year a												(₹ crore)									(₹ crore)	
	8-1	9			1	Contribution		1		FY 201	9-20				Contribution	ion l			F۱	2020-21			
					1	from								1	from Subsidies/								
	r Co	ontribution /C	Grants/Subsidies		1		Value of Asset	Fixed A	Assets, exclud	ing Consumer	Contribution	Grants/Subsid	lies	1	Grants/	Value of Asset	Fixed .	Assets, exc	luding Cons	umer Contribut	tion /Grants/Sub	sidies	
S.					Amount (₹	Grants/	eligible for							Amount (₹	Beneficiaries'	eligible for		[					Amount (₹ crore)
No	Particulars	Total			crore) (A)	Beneficiaries'	depreciation		Addition		Total			crore) (A)	Contribution /	depreciation	At the	Addition		Total	1		(A)
	De	epreciable	At the end of the	Depreciation	, (- ,	Contribution /	(C=A-B)	At the start of	during the	Deduction	Depreciable	At the end of	Depreciati		Consumers	(C=A-B)	start of	during	Deduction	Depreciable	At the end of	Depreciati	
		base	Year			Consumers	(0 / 2)	the Year	Year (D=C)		base	the Year	on		Contribution		the Year	the Year		base	the Year	on	
						Contribution									(B)			(D=C)			1		
1	Land		5.31	0.00	0.00		0.00	5.31	0.00	0.00		5.31	0.00	0.00	0.00	0.00	5.31		0.00		5.31	0.00	0.00
2	Buildina		10.38	0.35	0.03	0.02	0.01	10.38	0.01	0.01		10.38	0.19	0.10	0.03	0.06	10.38	0.06	0.03		10.41	0.19	5.95
3	R.C.C. Tank		0.74	0.04	0.00		0.00		0.00	0.00		0.74	0.01		0.00		0.74	0.00			0.74	0.01	
4	Plant & Machinery		85.26	4.50				85.26				85.26	3.07		0.00						85.26	3.07	
5	Transformer above 100KVA		105.94	5.55			4.06			0.10		109.91	3.89						1.40		112.74	4.03	
	Transformer below 100KVA		64.09	3.39			1.27	64.09		0		65.15	2.33						0.76		64.56	2.35	
	Static Machine Tools		1.84	0.11								1.84			0.00				0.00		1.84	0.11	
	Self Propelled vehicles		2.78	0.28								2.75	0.50		0.00				0.10		2.65	0.50	
	Switch gear & S/S Equipment		57.94	3.05				57.94		0.43		57.81	2.09						2.31		56.87	2.11	
	Meters		59.49	3.15			0.00			0.33		59.16	5.35		0.00	0.00	59.16	0.00	0.20		58.95	5.32	
	Office furniture		1.09	0.07			0.00	1.09		0.02		1.07	0.02		0.00				0.01		1.06	0.02	
	Office Equipments		1.51	0.10				1.51		0.00		1.53							0.00		1.53	0.09	
	LT & HT Overhead Lines		315.50	16.49	96.98	65.36	31.62	315.50	31.62	0.06		347.06	11.93	38.51	12.93	25.59	347.06	25.59	0.68		371.96	12.95	7.01
	Lightning Arrestors																				L		
а	Pole Type		4.64	0.36	0.08	0.06	0.03	4.64	0.03	0.01		4.66	0.28	0.02	0.01	0.01	4.66	0.01	0.01		4.66	0.28	
b	Station Type																						0.11
	Batteries		0.33	0.02			0.02			0.01		0.34	0.06						0.01		0.34	0.06	
	Street light fixtures		41.67	2.18			0.96	41.67		0.26			2.53						0.12			2.56	
	Service lines		13.89 158.75	0.75				13.89 158.75				12.68	0.50		0.00				0.00		12.68 158.75	0.46	
	Under Ground Lines Sub stations		158.75	8.38								158.75	4.08		0.00				0.00		158.75	4.08	
			14.34	1.13								21.71	1.24								24.14	0.52	
	Testing Equipments IT Equipments		59.82	3.79				59.82		0.00		59.88	3.59						0.00		24.14	3.59	
	Distribution acceseries		27.36	1.41				27.36		0.00		28.38	1.00						0.00		28.52	1.02	
	Others Contingency		21.30	1.41	5.10	2.09	1.01	27.30	1.01	0.00		20.30	1.00	0.21	0.07	0.14	20.30	0.14	0.00		20.32	1.02	39.37
	TOTAL	0.00	1052.30	55.84	127.18	85.72	41.46	1052.30	41.46	2.68	0.00	1091.08	43.38	51.90	17.42	34.48	1091.08	34.48	5.63	0.00	1119.93	44.70	
	Total as per Audited Account (for True up year	0.00	1002.00	00.04	121110	00.12	41.40	1002.00	41.40	2.00	0.00	1001.00	40.00	01.00		01.10		01.10	0.00	0.00			100.10
	only)				1			1										1			1		
													1										

#### Fixed Assets and Depreciation For True Up year a

### Fixed Assets & Provision for Depreciation

		Contribution				FY 20	21-22			1			1							Control Period	
		from Subsidies/									Contribution from				FY 2022	-23		1	1	Contribution from	
		Grants/	Value of	Fixed As	ssets, exclud	lina Consume	er Contributi	on /Grants/S	ubsidies	1	Subsidies/ Grants/	Value of Asset	Fixed Assets	excluding C	consumer (	Contributio	on /Grants/S	ubsidies		Subsidies/ Grants/	
S. No	Particulars	Beneficiaries' Contribution / Consumers Contribution (B)	Asset eligible for depreciation (C=A-B)	At the start of the Year	Addition	Deduction	Total	At the end of the Year		Amount (₹ crore) (A)	Beneficiaries' Contribution / Consumers Contribution (B)	eligible for depreciation (C=A-B)	At the start of the Year	Addition during the Year (D=C)			At the end	Depreciati on	Amount (₹ crore) (A)	Beneficiaries' Contribution / Consumers Contribution (B)	Value of Asset eligible for depreciation (C=A-B)
	Land	0.00						5.31	0.00			1.24					6.56	0.00	4.81	2.27	2.55
2	Building	3.18	2.77	10.41	1 2.77	7		13.18	0.21	4.49		3.09	13.18	3.09			16.27	0.27	11.94	5.62	
3	R.C.C. Tank	0.00	0.00	0.74	1 0.00	0		0.74	0.01	0.25		0.17					0.91	0.01	0.67	0.31	0.35
	Plant & Machinery	0.49		85.26				85.69	3.08	29.20		20.08					105.76	3.45	77.64	36.53	41.11
5	Transformer above 100KVA	11.45	9.96	112.74	1 9.96	0		122.70	4.24	41.82		28.75		28.75			151.45	4.93	111.18	52.31	58.87
6	Transformer below 100KVA	0.78		64.56				65.24	2.34	22.23		15.28					80.53	2.62	59.11	27.81	31.30
7	Static Machine Tools	0.00		1.84				1.84	0.11	0.63		0.43					2.27	0.12	1.66	0.78	0.88
8	Self Propelled vehicles	0.00		2.65				2.65	0.48	0.90		0.62					3.27	0.53	2.40	1.13	
9	Switch gear & S/S Equipment	22.29	19.40	56.87	7 19.40	0		76.27	2.40	25.99	8.13	17.87	76.27	17.87			94.14	3.07	69.11	32.51	36.59
10	Meters	3.02	2.63	58.95	5 2.63	3		61.58	5.42	20.99	6.56	14.43	61.58	14.43			76.01	6.19	55.80	26.25	29.55
11	Office furniture	0.00	0.00	1.06	6 0.00	)		1.06	0.02	0.36	0.11	0.25	1.06	0.25			1.31	0.07	0.96	0.45	0.51
12	Office Equipments	0.00	0.00	1.53	3 0.00	)		1.53	0.09	0.52	0.16	0.36	1.53	0.36			1.89	0.10	1.39	0.65	0.74
13	LT & HT Overhead Lines	3.75	3.26	371.96	3.26	6		375.22	13.45	127.88	39.97	87.91	375.22	87.91			463.13	15.09	339.99	159.95	180.03
14	Lightning Arrestors																				
а	Pole Type	0.04	0.04	4.66	6 0.04	1		4.70	0.28	1.60	0.50	1.10	4.70	1.10			5.80	0.31	4.25	2.00	2.25
b	Station Type																				
15	Batteries	0.45	0.40					0.74	0.10	0.25	0.08	0.17	0.74				0.91	0.15	0.67	0.31	0.35
16	Street light fixtures	0.13	0.11	42.70	0.11	1		42.82	2.57	14.59	4.56	10.03	42.82	10.03			52.85	2.87	38.80	18.25	
17	Service lines	0.26	0.23	12.68	3 0.23	3		12.91	0.46	4.40	1.38	3.03	12.91	3.03			15.94	0.52	11.70	5.51	6.20
	Under Ground Lines	20.27						176.39	4.31	60.12		41.32		41.32			217.71	5.06	159.82	75.19	84.63
19	Sub stations	0.00		14.34				14.34	0.52			3.36					17.70	0.58	12.99	6.11	6.88
	Testing Equipments	0.00						24.14	1.45			5.66					29.80	1.62	21.88	10.29	11.58
	IT Equipments	1.10		59.88				60.84	3.62	20.73		14.25		14.25			75.09	10.19	55.12	25.93	29.19
	Distribution acceseries	0.00	0.00	28.52	2 0.00	)		28.52	1.03	9.72	3.04	6.68	28.52	6.68			35.20	1.15	25.84	12.16	13.68
	Others Contingency																				
	TOTAL	88.33	58.49	1119.93	58.49	0.00	0.00	1178.42	46.17	401.62	125.54	276.08	1178.42	276.08	0.00	0.00	1454.50	58.92	1067.75	502.34	565.41
	Total as per Audited Account (for True up year only)																1454.50				

		FY 2023-24 Fixed Assets, excluding Consumer Contribution /Grants/Subsidies											
S. No	Particulars	Fixed A At the start of the Year	Addition during the Year (D=C)	ng Consume	Total	At the end of the Year	Subsidies Depreciation						
1	Land	6.56	2.55			9.11	0.0						
2	Building	16.27	6.32			22.60	0.3						
3	R.C.C. Tank	0.91	0.35			1.27	0.0						
4	Plant & Machinery	105.76	41.11			146.88	4.5						
5	Transformer above 100KVA	151.45	58.87			210.32	6.5						
6	Transformer below 100KVA	80.53	31.30			111.83	3.4						
7	Static Machine Tools	2.27	0.88			3.15	0.1						
8	Self Propelled vehicles	3.27	1.27			4.55	0.7						
9	Switch gear & S/S Equipment	94.14	36.59			130.73	4.0						
10	Meters	76.01	29.55			105.56	8.1						
11	Office furniture	1.31	0.51			1.83	0.0						
12	Office Equipments	1.89	0.74			2.63	0.1						
13	LT & HT Overhead Lines	463.13	180.03			643.17	19.9						
14	Lightning Arrestors												
а	Pole Type	5.80	2.25			8.05	0.4						
b	Station Type												
15	Batteries	0.91	0.35			1.26	0.2						
16	Street light fixtures	52.85	20.54			73.39	3.7						
17	Service lines	15.94	6.20			22.14	0.6						
18	Under Ground Lines	217.71	84.63			302.34	6.6						
19	Sub stations	17.70	6.88			24.58	0.7						
20	Testing Equipments	29.80	11.58			41.39	2.1						
	IT Equipments	75.09	29.19			104.28	13.4						
22	Distribution acceseries	35.20	13.68			48.88	1.5						
23	Others Contingency												
	TOTAL	1454.50	565.41	0.00	0.00	2019.91	77.7						

S. No	Particulars
1	Land
2	Building
3	R.C.C. Tank
4	Plant & Machinery
5	Transformer above 100KVA
6	Transformer below 100KVA
7	Static Machine Tools
8	Self Propelled vehicles
9	Switch gear & S/S Equipment
10	Meters
11	Office furniture
12	Office Equipments
13	LT & HT Overhead Lines
14	Lightning Arrestors
а	Pole Typ
b	Station Typ
15	Batteries
16	Street light fixtures
17	Service lines
18	Under Ground Lines
19	Sub stations
20	Testing Equipments
21	IT Equipments
22	Distribution acceseries
23	Others Contingency
	TOTAL
	Total as per Audited Account (for True up year only)

S. No	Particulars
1	Land
2	Building
3	R.C.C. Tank
4	Plant & Machinery
5	Transformer above 100KVA
6	Transformer below 100KVA
7	Static Machine Tools
8	Self Propelled vehicles
9	Switch gear & S/S Equipment
10	Meters
11	Office furniture
12	Office Equipments
13	LT & HT Overhead Lines
14	Lightning Arrestors
а	Pole Typ
b	Station Typ
15	Batteries
16	Street light fixtures
17	Service lines
18	Under Ground Lines
19	Sub stations
20	Testing Equipments
21	IT Equipments
22	Distribution acceseries
23	Others Contingency
	TOTAL
	Total as per Audited Account (for True up year only)

S. No	Particulars
1	Land
2	Building
3	R.C.C. Tank
4	Plant & Machinery
5	Transformer above 100KVA
6	Transformer below 100KVA
7	Static Machine Tools
8	Self Propelled vehicles
9	Switch gear & S/S Equipment
10	Meters
11	Office furniture
12	Office Equipments
13	LT & HT Overhead Lines
14	Lightning Arrestors
а	Pole Typ
b	Station Typ
15	Batteries
16	Street light fixtures
17	Service lines
18	Under Ground Lines
19	Sub stations
20	Testing Equipments
21	IT Equipments
22	Distribution acceseries
23	Others Contingency
	TOTAL
	Total as per Audited Account (for True up year only)

S. No	Particulars
	Land
	Building
3	R.C.C. Tank
	Plant & Machinery
	Transformer above 100KVA
	Transformer below 100KVA
	Static Machine Tools
	Self Propelled vehicles
9	Switch gear & S/S Equipment
10	Meters
11	Office furniture
	Office Equipments
	LT & HT Overhead Lines
14	Lightning Arrestors
а	Pole Type
b	Station Type
	Batteries
	Street light fixtures
	Service lines
	Under Ground Lines
	Sub stations
	Testing Equipments
	IT Equipments
	Distribution acceseries
	Others Contingency
	TOTAL
	Total as per Audited Account (for True up year
	only)

## (Rs. Crore)

Additions to Gross Fixe	d Assets for Normativ	/e Loan, Equity & D	Depreciation Purpose	

Sr. No.	Sr. No. Particulars	Audited	Provisional Actual	Provisional Actual	Provisional Actual	Provisional Actual	Provisional Actual
		FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
1	2	3	4	5	6	7	8
1	Additions to GFA	101.44	27.55	42.01	127.18	51.90	165.19
2	Less: 60% (FY 2017-18 & FY 2018-19) and 75% (FY 2019-20 to FY 2021-22) Grant Component of APDRP Part-B / IPDS scheme	19.79	0.24	6.81	16.78	2.74	28.88
3	Less: Revamped Scheme (15% Grant Prepaid Meter; 100% for DBM, billing modules etc; 60% for SCADA)						
4	Less: Schemes out of ED Fund	29.91	5.57	18.48	68.94	14.68	59.45
5	Net Additions to GFA	51.74	21.74	16.72	41.46	34.48	76.86
6	Decapitalisation of Assets				2.68	5.63	-
7	Net capital base considered for the Loan and ROE				38.78	28.85	76.86

## Return on Equity

					(₹ crore)	
		FY 2020-21	FY 2021-22	Control Period		
S. No	Particulars	Actual	Estimated	Proje	ction	
				FY 2022-23	FY 2023-24	
1	Opening Balance of Equity	314.37	323.03	346.08	428.91	
2	Net Additions during the Year	8.65	23.06	82.82	169.62	
3	Closing Balance of Equity	323.03	346.08	428.91	598.53	
4	Average Equity	318.70	334.55	387.50	513.72	
5	Average Equity (Wires Business)	286.83	301.10	348.75	462.35	
6	Average Equity (Retail Supply Business)	31.87	33.46	38.75	51.37	
7	Rate of Return on Equity for Wire Business %	15.50%	15.50%	15.50%	15.50%	
8	RoE Wire Business	44.46	46.67	54.06	71.66	
9	Rate of Return on Equity for Retail Supply Business %	16.00%	16.00%	16.00%	16.00%	
10	RoE on Retail Supply business	5.10	5.35	6.20	8.22	
11	RoE (Wire and Retail Supply business)	49.56	52.02	60.26	79.88	

# **Operations and Maintenance Expenses Summary**

		(FY 2022-23)				
Sr. No.	Particulars	Tariff Order	Provisonal	Deviation		
		(a)	(b)	(c) = (b) - (a)		
1	O&M Expenses					
1.1	Employee Expenses	344.56	408.71	64.15		
1.2	R&M Expenses	55.33	54.62	-0.71		
1.3	A&G Expenses	55.33	33.74	-21.59		
2	O&M Expense capitalise	d				
3	Total Operation & Maintenance Expenses (net of capitalisation)	455.22	497.08	41.86		

	(Rs. Crore)
Projections	
(FY 2023-24)	Remarks
Projected	
435.52	
54.62	
35.73	
525.87	

### Form F17(A)

		Approved O&M Expenses				3-Year Average	MYT Contro	ol Period
Sr. No.	Particulars	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22		FY 2022-23	FY 2023-24
		(a)	(b)	(c)		(d) = [(a)+(b)+(c)]/3	Projected	Projected
1	Employee Expenses	270.41	294.08	300.81	311.98	302.29	333.14	378.27
2	A&G Expenses	10.81	27.10	28.24	31.02	28.79	31.72	35.57
3	R & M Expenses	45.60	42.55	73.65	86.58	67.59	54.51	82.44
4	Total O&M Expenses	326.82	363.73	402.7	429.58	398.67	419.37	496.29

			Actual O&M Expenses			3-Year Average	MYT Control Period		
	Sr. No. Particulars	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	5-Teal Average	FY 2022-23	FY 2023-24	
Sr. No.		(a)	(b)	(c)		(d) = [(a)+(b)+(c)]/3	(e)	Projected	
1	Employee Expenses	325.73	340.39	332.21	353.55	342.05	383.55	435.52	
2	A&G Expenses	27.42	26.91	26.20	39.79	30.97	31.87	35.73	
3	R & M Expenses	26.32	32.98	12.48	60.77	35.41	30.59	45.06	
4	Total O&M Expenses	379.47	400.28	370.89	454.10	408.42	446.01	516.31	

O&Mn = (R&Mn + EMPn + A&Gn) x (1 - Xn) + Terminal Liabilities Where, R&Mn = K x GFAn-1 x (WPlinflation) EMPn = (EMPn-1) x (1+Gn) x (CPlinflation) A&Gn = (A&Gn-1) x (CPlinflation) 'K' is a constant (expressed in %).

CPI inflation – is the average increase in Consumer Price Index (CPI) for immediately preceding WPI inflation – is the average increase in the Wholesale Price Index (CPI) for immediately prece EMPn – Employee expenses of the Distribution Licensee for the nth Year;

A&Gn – Administrative and General expenses of the Distribution Licensee for the nth Year; R&Mn – Repair and Maintenance expenses of the Distribution Licensee for the nth Year;

GFAn-1 – Gross Fixed Asset of the transmission Licensee for the n-1th Year;

Xn is an efficiency factor for nth Year. Value of Xn shall be determined by the Commission in t Gn is a growth factor for the nth Year. Value of Gn shall be determined by the Commission for

$P_{1}^{2}$	• • • •	FY 2022-23	
R&Mn = K x GFAn-1 x (1+WPIinflation)			FY 2023-24
Particulars	FY 2022-23	FY 2023-24	FY 2024-25
WPI Inflation	8.13%	8.13%	8.13%
К	4.87%	4.87%	4.87%
GFAn-1	1443.85	1566.39	1968.01
R&Mn	75.99	82.44	103.58
EMPn = (EMPn-1) x (1+Gn) x (1+CPlinflation)			
Particulars	FY 2022-23	FY 2023-24	FY 2024-25
EMPn-1	333.14	354.99	378.27
Gn	0.63%	0.63%	0.63%
CPI Inflation	5.89%	5.89%	5.89%
EMPn	354.99	378.27	403.09
A&Gn = (A&Gn-1) x (1+CPIinflation)			
Particulars	FY 2022-23	FY 2023-24	FY 2024-25
A&Gn-1	31.72	33.59	35.57
CPI Inflation	5.89%	5.89%	5.89%
A&Gn	33.59	35.57	37.67
Escalation rate working	FY 11-12	FY 12-13	FY 13-14
WPI based on Office of Economic Advisor, Gol	100.00	106.90	112.46
YoY	100.00	6.90%	5.20%
5 years average		0.5070	5.2070
3 years average			
Particulars	FY 11-12	FY 12-13	FY 13-14
CPI based on Industrial Workers, All India	194.83	215.17	236.00
ΥοΥ		10.44%	9.68%
5 years average			
3 years average			

Method 1: Projecting upto Base Year FY 2022-23 using Approved data of Past Years

			Audited
Particulars	2011-12	2012-13	2013-14
Number of employees	6210	6200	4,910
Number of consumers ('000)			
Number of employees per '000 consumers			
Past Employee Cost (Rs. Crs)			
Projected Employee Cost (Rs. Crs)	155.04	154.63	170
Employee Expense per Employee (Rs Cr)	0.02	0.02	0.03
GN			
Last 3 yrs audited CAGR	18%		
Last 3 yrs CAGR (considering FY 16-17 since FY			
17-18 has 7th Pay commission impact)	-2.50%		
Last 5 yrs CAGR (considering FY 17-18)	-100.00%		
Last 3 yrs CAGR	-100.00%		
Last 5 yrs CAGR (considering FY 16-17 since FY			
17-18 has 7th Pay commission impact)	5%		

Audited Figures			Rs. Crs
Particulars	FY 2018-19	FY 2019-20	FY 2020-21
Employee exp	270.41	294.08	300.81
R&M exp	45.60	42.55	73.65
A&G exp	10.81	27.10	28.24
CPI Inflation	4.98%		
Employee Expenses			
FY 2020-21	317.34		
FY 2021-22	333.14		
FY 2022-23 (Base Year)	333.14		
A&G Expenses			
FY 2020-21	30.22		
FY 2021-22	31.72		
FY 2022-23 (Base Year)	31.72		
	-		
R&M Expenses	FY 2018-19	FY 2019-20	FY 2020-21
R&M exp	45.60	42.55	73.65
Opening GFA	1,236.61	1,274.13	1,398.63
K factor	3.69%	3.34%	5.27%
Avg of K factor	4.87%		•

three (3) Years before the base Year; eding three (3) Years before the base Year;

the Multi Year Tariff Order based on Licensee's filing, benchmarking, approved cost by r each Year in the Multi Year Tariff Order for meeting the additional manpower requir

FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
113.88	109.72	111.62	114.88	119.79	121.80	123.38
1.26%	-3.65%	1.73%	2.92%	4.28%	1.68%	1.29%
					1.39%	2.38%
				2.98%	2.96%	2.42%

FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
250.83	265.00	275.92	284.42	299.92	322.50	338.69
6.29%	5.65%	4.12%	3.08%	5.45%	7.53%	5.02%
					5.17%	5.04%
				4.22%	5.35%	6.00%

		Actual	Actual			
2014-15	2015-16	2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
5845	6011	6775	6202	6705	7197	7579
599	585	579	619	619		
	10					
206	238.5	217	351		328	
0.04	0.04	0.03	0.06	-	0.05	-
				8.11%	7.34%	5.31%

FY 2019-20

FY 2021-22	Average
311.98	302.29
86.58	67.59
31.02	28.79

FY 2021-22	
86.58	
1443.8536	
6.00%	

the Commission in past and any other factor the Commission feels appropriate;
 ement based on Licensee's filings, benchmarking, approved cost by the Commission in past and any other factor t

FY 21-22		FY 22-23
	139.41	153.50
	13.00%	10.11%
	4.63%	6.07%
	5.32%	8.13%

FY 21-22	FY 21-22	
	356.06	373.10
	5.13%	4.79%
	5.24%	5.58%
	5.89%	4.98%

FY 2021-22		FY 2022-23
	5883	5920

0.00%	0.63%

hat the Commission feels appropriate:

O&Mn = (R&Mn + EMPn + A&Gn) x (1 - Xn) + Terminal Liabilities Where, R&Mn = K x GFAn-1 x (WPlinflation) EMPn = (EMPn-1) x (1+Gn) x (CPlinflation) A&Gn = (A&Gn-1) x (CPlinflation) 'K' is a constant (expressed in %).

CPI inflation – is the average increase in Consumer Price Index (CPI) for immediately preceding WPI inflation – is the average increase in the Wholesale Price Index (CPI) for immediately prece EMPn – Employee expenses of the Distribution Licensee for the nth Year;

A&Gn – Administrative and General expenses of the Distribution Licensee for the nth Year; R&Mn – Repair and Maintenance expenses of the Distribution Licensee for the nth Year;

GFAn-1 – Gross Fixed Asset of the transmission Licensee for the n-1th Year;

Xn is an efficiency factor for nth Year. Value of Xn shall be determined by the Commission in t Gn is a growth factor for the nth Year. Value of Gn shall be determined by the Commission for

R&Mn = K x GFAn-1 x (1+WPlinflation)	FY 2021-22	FY 2022-23	FY 2023-24
Particulars	FY 2022-23	FY 2023-24	FY 2024-25
WPI Inflation	5.32%	5.32%	5.32%
К	2.73%	2.73%	2.73%
GFAn-1	1443.85	1566.39	1968.01
R&Mn	41.54	45.06	56.61
EMPn = (EMPn-1) x (1+Gn) x (1+CPlinflation)			
Particulars	FY 2022-23	FY 2023-24	FY 2024-25
EMPn-1	383.55	408.71	435.52
Gn	0.63%	0.63%	0.63%
CPI Inflation	5.89%	5.89%	5.89%
EMPn	408.71	435.52	464.08
A&Gn = (A&Gn-1) x (1+CPIinflation)			
Particulars	FY 2022-23	FY 2023-24	FY 2024-25
A&Gn-1	31.87	33.74	35.73
CPI Inflation	5.89%	5.89%	5.89%
A&Gn	33.74	35.73	37.84
Escalation rate working	FY 11-12	FY 12-13	FY 13-14
WPI based on Office of Economic Advisor, Gol	100.00	106.90	112.46
ҮоҮ		6.90%	5.20%
5 years average			
3 years average			
Particulars	FY 11-12	FY 12-13	FY 13-14
CPI based on Industrial Workers, All India	194.83	215.17	236.00
ҮоҮ		10.44%	9.68%
5 years average			
3 years average			

Method 1: Projecting upto Base Year FY 2021-22 using provisional Accounts

			Audited
Particulars	2011-12	2012-13	2013-14
Number of employees	6210	6200	4,910
Number of consumers ('000)			
Number of employees per '000 consumers			
Past Employee Cost (Rs. Crs)			
Projected Employee Cost (Rs. Crs)	155.04	154.63	170
Employee Expense per Employee (Rs Cr)	0.02	0.02	0.03
GN			
Last 3 yrs audited CAGR	18%		
Last 3 yrs CAGR (considering FY 16-17 since FY			
17-18 has 7th Pay commission impact)	-2.50%		
Last 5 yrs CAGR (considering FY 17-18)	-100.00%		
Last 3 yrs CAGR	-100.00%		
Last 5 yrs CAGR (considering FY 16-17 since FY			
17-18 has 7th Pay commission impact)	5%		

Audited Figures			Rs. Crs
Particulars	FY 2018-19	FY 2019-20	FY 2020-21
Employee exp	325.73	340.39	332.21
R&M exp	27.42	26.91	26.20
A&G exp	26.32	32.98	12.48
CPI Inflation	5.89%		
Employee Expenses			
FY 2020-21	362.21		
FY 2021-22	383.55		
FY 2022-23 (Base Year)	383.55		
A&G Expenses			
FY 2020-21	30.09		
FY 2021-22	31.87		
FY 2022-23 (Base Year)	31.87		
R&M Expenses	FY 2018-19	FY 2019-20	FY 2020-21
R&M exp	27.42	26.91	26.20
Opening GFA	1,236.61	1,274.13	1,398.63
K factor	2.22%	2.11%	1.87%
Avg of K factor (as per JERC Approved)	2.73%		

three (3) Years before the base Year; eding three (3) Years before the base Year;

the Multi Year Tariff Order based on Licensee's filing, benchmarking, approved cost by r each Year in the Multi Year Tariff Order for meeting the additional manpower requir

FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
113.88	109.72	111.62	114.88	119.79	121.80	123.38
1.26%	-3.65%	1.73%	2.92%	4.28%	1.68%	1.29%
					1.39%	2.38%
				2.98%	2.96%	2.42%

FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
250.83	265.00	275.92	284.42	299.92	322.50	338.69
6.29%	5.65%	4.12%	3.08%	5.45%	7.53%	5.02%
					5.17%	5.04%
				4.22%	5.35%	6.00%

		Actual	Actual			
2014-15	2015-16	2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
5845	6011	6775	6202	6705	7197	7579
599	585	579	619	619		
	10					
206	238.5	217	351		328	
0.04	0.04	0.03	0.06	-	0.05	-
				8.11%	7.34%	5.31%

FY 2019-20		
FY 2021-22	Average	
353.55	342.05	
60.77	37.96	
39.79	28.42	

FY 2021-22		
60.77		
1,443.85		
4.21%		

the Commission in past and any other factor the Commission feels appropriate;
 ement based on Licensee's filings, benchmarking, approved cost by the Commission in past and any other factor t

## Method 2: Projecting the based on the approved figures of FY 2021-22

Particulars	FY 2022-23
WPI Inflation	5.32%
К	2.73%
GFAn-1	1443.85
R&Mn	41.54

Particulars	FY 2022-23
EMPn-1 (approved in FY 2021-22)	311.98
Gn	0.63%
CPI Inflation	5.89%
EMPn	332.44

Particulars	FY 2022-23
A&Gn-1 (As approved in FY 2021-22)	31.02
CPI Inflation	5.89%
A&Gn	32.85

FY 21-22	FY 22-23	FY 23-24
139.41	153.50	153.50
13.00%	10.11%	0.00%
4.63%	6.07%	5.21%
5.32%	5.32%	5.32%

FY 21-22	FY 22-23	FY 23-24
356.06	373.10	373.10
5.13%	4.79%	0.00%
5.24%	5.58%	4.49%
5.89%	5.89%	5.89%

FY 2021-22	FY 2022-23
5883	5920

0.00%	0.63%

hat the Commission feels appropriate:

### Form F18(A)

### Employee Expenses

						(₹ Lakhs)	
				Control Pe	eriod	, ,	
	S.No	Particulars	Actual (H1)	Projection	Estimated	Projections	
				FY 2022-23 H2			
Α		Employee Cost (Other than covered in 'C'&'D')					
	1	Salaries	159.83	120.00	279.83	298.18	
	2	Dearness Allowance (DA)	18.13	13.62	31.75	33.83	
	3	Other Allowances+ HRA	32.38	24.31	56.69	60.41	
	4	Interim Relief / Wage Revision					
	5	Overtime					
	6	Bonus					
	7	Generation Incentive					
	8	Any Other Item (specify)					
		Sub Total					
В		Other Costs					
	1	Medical Expenses Reimbursement	2.89	2.17	5.05	5.38	
	2	Travelling Allowance(Conveyance Allowance)	7.56	5.68	13.23	14.10	
	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					
С	1	Apprentice and Other Training Expenses					
D		Contribution to Terminal Benefits					
	1	Earned Leave Encashment					
	2	Provident Fund Contribution(NPS)	12.65	9.50	22.15	23.61	
	3	Provision for PF Fund					
	4	Pension					
	5	Gratuity					
	6	Ex-gratia					
	7	Any Other Item (specify)					
		Sub Total					
Е		Grand Total (A+B+C+D)	233.44	175.27	408.71	435.52	
F		Employee Expenses Capitalized					
G		Net Employee Expenses (E)-(F)	233.44	175.27	408.71	435.52	

### Form F18(B)

### Employee Strength

		FY 2021-22		Control Period				
	. Particulars	Actuals		Estin	Estimated			
				FY 20	22-23	FY 20	023-24	
S.No.		Working Strength At The Beginning Of The Year	Sanctioned Strength At The Beginning Of The Year	•	Sanctioned Strength At The Beginning Of The Year	Working Strength At The Beginning Of The Year	Sanctioned Strength At The Beginning Of The Year	
	Technical							
1	Class I	10	36	7	36	15	36	
2	Class II	164	193	158	193	185	193	
3	Class III	4616	5621	4647	5621	4931	5621	
4	Class IV							
	Non - Technical							
1	Class I	3	3	3	3	3	3	
2	Class II	2	3	2	3	2	3	
3	Class III	1088	1433	1103	1433	1145	1433	
4	Class IV							
	Total	5883	7289	5920	7289	6281	7289	

### Form F20

		Control Period							
S.No.	Particulars	Actual (H1)(upto Sept,22)	Projection	Estimated (H2)	Projections				
			FY 2022-23		FY 2023-24				
1	Plant and Machinery	22.40	16.80	39.20	39.20				
	- 220 kV Sub-Station								
	- 110 kV Sub-Station								
	- 33kV Sub-Station								
	- 11kV Sub-Station								
	<ul> <li>Switchgear and cable connections</li> </ul>								
	- Others	0.09	0.07	0.16					
2	Building	1.45	1.09	2.53	2.53				
3	Civil Works								
4	Hydraulic Works								
5	Lines, Cables, Networks etc.								
	- 220 kV Sub-Station								
	- 110 kV Sub-Station								
	- 33kV Lines								
	- 11kV Lines								
	- LT Lines								
	- Others								
6	Vehicles	7.25	5.44	12.68	12.68				
7	Furniture and Fixtures								
8	Office Equipments								
9	Station Supplies								
10	Metering Equipments								
11	Any Other Item	0.02	0.02	0.04					
Α	Gross R&M Expenses	31.21	23.41	54.62	54.62				
В	R&M Expenses Capitalised								
12	Net R&M Expenses	31.21	23.41	54.62	54.62				

## Repair & Maintenance Expenditure

Form F19

### Administration & General Expenses

			Administration & Genera				(₹ cr)
					Control Per	iod	
					FY 2023-24		
S.I	S.No Particulars		Actual(H1)(upto Sept.22)	Projection H2	Estimated	Projected	
	1	Lease/ Rent		0.46	0.65	1.11	1.17
	2	Insurance					
	3	Revenue Stamp Expenses Acco	unt				
	4	Telephone, Postage, Telegram 8	Telex Charges				
		Incentive & Award to Employees	/Outsiders				
		Consultancy Charges					
	7	Technical Fees					
٨	8	Other Professional Charges		0.45	0.63	1.08	1.15
-	9	Conveyance and Travelling Expe	enses	0.19	0.27	0.46	0.48
	10	License and Registration Fees					
	11	Vehicle Expenses (Other Than Trucks and Delivery Vans)	Vehicles Running Expenses Petrol and Oil Hiring of Vehicles				
	40	Security / Service Charges Paid					
	12	Security / Service Charges Paid Sub Total 'A' (1 to 12)	1.10	1.55	2.65	2.80	
	1	Fee and Subscription for Books a	and Deviadicals	1.10	1.55	2.65	2.00
		Printing and Stationery Expenses					
	2	Advertisement Expenses (Other than Purchase Related)					
Other Charges	3	Exhibition & Demo.		0.12	0.17	0.29	0.33
arg	4	Contributions/Donations to Outside Institutes / Associations					
5	5	Electricity Charges of Offices					
P	6	Water Charges					
÷	7	Entertainment Charges					
ы Ш	8	Miscellaneous Expenses (specify	r details)				
-		Office expenses		10.55	14.84		26.89
		Other Charges		2.09	2.94		5.33
		minor works		0.16	0.23		0.41
_	<u> </u>	Sub-Total 'B' (1 To 8)		12.92	18.18	31.10	32.95
<u>c</u>		Legal Fee/Charges					
D	-	Auditor's Fee					
		Freight on Capital Equipments	<b>F</b>				
σ		Purchase Related Advertisement					
ate	3	Vehicle Running Expenses Truck					
ss (gl	4	Vehicle Hiring Expenses Truck /	Delivery van				
Material Related Expenses	5	Other Freight Transit Insurance					
je je	7	Octroi					
шă	8	Incidental Stores Expenses		1			
≥ 	9	Fabrication Charges					
ш	3	minor works					
	-	Sub Total 'E' (1 To 9)	1	0.00	0.00	0.00	0.00
F	-	Direction And Supervision Cha	arges	0.00	5.00	0.00	5.00
	-	Annual license fee and tariff					
G	i.	JEF					
		Grand Total (A To G)	Total Charges	14.02	19.72	33.74	35.73
н		Total Charges Chargeable To	Capital Works (-)				
	••	. eta. enarges enargeable 10	Revenue Expenses	1		1	

# Income from Investments and Non-Tariff Income

					(₹ crore)		
S. No.	Particulars	Projection					
3. NO.	Faiticulars	FY 2022-23	FY 2022-23	FY 2022-23	FY 2023-24		
		Actual (H1)	Projection (H2)	Estimated	Estimated		
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	3.89	17.7	21.59	22.01		
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						
15	and Bank Balances						
14	Prior Period Income						
	Income from Open Access Charges (Application fee,						
15	Cross Subsidy Surcharge, Additional Surcharge,						
15	Transmission and/or Wheeling Charges, Scheduling						
	Charges etc.						
16	Sale Proceeds of dead stock, waste paper etc	2.53	5.24	7.77	7.92		
16	Any other Income not included above						
	Total	6.42	22.94	29.36	29.93		
	Note <sup>.</sup>						

Note:

\*Net revenue from late payment surcharge (late payment surcharge less financing cost of late payment surcharge)

	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
NTI As Approved	6.79	24.4	25.34	26.32	26.32
		259.35%	3.85%	3.87%	0.00%
				1.93	3%

### Form F21

# Consumer Security Deposit

(₹ crore)

	Category		)21-22 tual	FY 2022-23 (April 2022 to Sep 2022) Estimated		
S. No.		Security Deposit Collected(Rs.)	Security Deposit Refunded(Rs.)	Security Deposit Collected(Rs.)	Security Deposit Refunded(Rs .)	
Α	PERMANENT SUPPLY					
1	Domestic					
-	11 kV Voltage Level					
	Tariff HTD/Domestic	0	0	0	0	
			-			
	LT Voltage Level					
	Tariff LTD/Domestic and Non-Commercial	-76698588.2	-116583.17	-54759949	-124180.19	
	Tariff LTD/Low Income Group	-100		-6582	-23	
	Sub-Total	-76698688.2	-116583.17	-54766531	-124203.19	
2	Commerical					
	33 kV Voltage Level					
	Tariff HT-Commercial	0	0	0	0	
	11 kV Voltage Level					
	Tariff HT-Commercial	-275000	0	-1980000	0	
	LT Voltage Level					
	Tariff-LTC/Commercial	-59726191	-17758	-44764718.65	-63835	

Form F22

	Sub-Total	-60001191	-17758	-46744718.65	-63835
•	Dublic Liebaire				
3	Public Lighting           LT Voltage Level				
	Tariff-LTPL/Public Lighting	-186005	0	-91992	0
		100000		01002	0
4	Agricultural Pumpsets				
	HT Voltage Level (33 kV)				
	HT-Agriculture				
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	0	0	0	0
	Tariff-HTAG/Agriculture (Allied Activities) (B)	0	0	0	0
	HT Voltage Level (11 kV)				
	HT-Agriculture				
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	0	0	0	0
	Tariff-HTAG/Agriculture (Allied Activities) (B)	0	0	0	0
	LT Voltage Level				
	LT-Agriculture				
	Tariff-LTAG/Agriculture (Pump				
	Sets/Irrigation) (A)	-1859466	0	-924957	-4750
	Tariff-LTAG/Agriculture Allied (B)	-303106	0	-56277	0
		0400770		004004	
	Sub-Total	-2162572	0	-981234	-4750
5	Small Power				
	LT Voltage Level				
	LTI-Industry	-5782018	0	-2720011	-1700

6 11	Sub-Total Medium Supply 1 kV Voltage Level Tariff HTI/Industrial (Connected at 11 kV) H.T. MES/Defence Establishments	- <b>5803976</b> -4115000	0	-2833474	-3437
	Medium Supply 1 kV Voltage Level Tariff HTI/Industrial (Connected at 11 kV)	-4115000		-2833474	-3437
	1 kV Voltage Level Tariff HTI/Industrial (Connected at 11 kV)				
	1 kV Voltage Level Tariff HTI/Industrial (Connected at 11 kV)		0		
	Tariff HTI/Industrial (Connected at 11 kV)		0		
			0		
	H.T. MES/Defence Establishments	-	0	-4413000	0
		0	0	0	0
┝───┼─	Sub-Total	-4115000	0	-4413000	0
7	Large Supply				
33	3 kV Voltage Level				
	Tariff HTI/Industrial (Connected at 33 kV)	-4502050	0	-800000	0
	H.T.Industrial (Ferro Mettallurgical/ Steel Melting/				
	Power Intensive)	-15100	0	0	0
	Sub-Total	-4517150	0	-800000	0
8	Bulk Supply				
	10 kV Voltage Level				
	Tariff HTI/Industrial (Connected at 110 kV)	0	0	0	0
11	1 kV Voltage Level				
	Single Point Supply				
	Residential Complexes	0	0	0	0
	Commercial Complexes	0	0	0	0
┝───┼─	Industrial Complexes	0	0	0	0
	Sub-Total	0	0	0	0
$\vdash$		0	0	0	0

9	Other Categories				
	33 kV Voltage Level				
	Electric Vehicle Charging Station	0	0	0	0
	11 kV Voltage Level				
	Tariff-LT Hoarding and SignBoard	-342298	0	-13858	0
	Electric Vehicle Charging Station	0	0	0	0
	Grand Total	-342298	0	-13858	0

В	TEMPORARY SUPPLY				
1	Domestic				
	11 kV Voltage Level				
	Tariff-HTTS/Temporary Supply (HT Domestic)	0	0	0	0
	LT Voltage Level				
	Tariff-LT/Temporary Domestic	-6402584	-176478	-4266796	-175152.67
	Sub-Total	-6402584	-176478	-4266796	-175152.67
2	Commerical				
	11 kV Voltage Level				
	Tariff-HTTS/Temporary Supply (HT Commercial)	-123049	0	0	0
		120040		0	0
	LT Voltage Level				
	Tariff-LT/Temporary Commercial	-42925764.12	-4640802.99	-18497394	-3171820
	Sub-Total	-43048813.12	-4640802.99	-18497394	-3171820
	Grand Total	-203278277.3	-4951622.16	-133408997.7	-3543197.86

### Information regarding Security Deposits from Consumers

						(Rs. Crs)
Sr. No.	Particulars	Actual	Actual	Actual	Projection	Estimated
		FY 2020-21	FY 2021-22	FY 2022-23 (H1)	FY 2022-23 (H2)	FY 2022-23
1	1	2		3	4	5
1	Opening Security Deposit	45.87	51.21	86.60	99.59	86.60
2	Add: Deposits during the Year	13.04	43.31	13.34	13.34	26.68
3	Less: Deposits refunded	7.70	7.92	0.35	0.35	0.71
4	Closing Security Deposit	51.21	86.60	99.59	112.58	112.58
5	Bank Rate	4.65%	4.25%	4.25%	4.25%	4.25%
6	Interest on Security Deposit *	2.26	2.93	3.96	4.51	4.23

### Provisions of Interest on Security Deposits from Consumers

Sr. Actual Actual Actual Projection Estimated Particulars No. FY 2022-23 (H1) FY 2020-21 FY 2021-22 FY 2022-23 (H2) FY 2022-23 2 1 3 4 5 6 1 Opening Security Deposit 45.87 51.21 86.60 99.59 86.60 Add: Deposits during the Year 2 13.04 43.31 13.34 13.34 26.68 3 Less: Deposits refunded 7.70 7.92 0.35 0.35 0.71 4 Less: Deposits in form of BG/FDR -----5 **Closing Security Deposit** 99.59 112.58 51.21 86.60 112.58 6 4.65% Bank Rate 4.25% 4.25% 4.25% 4.25% 2.93 7 Interest on Security Deposit \* 2.26 3.96 4.51 4.23 Cumulative Interest on Security Depsit including 8 24.13 27.06 28.09 32.59 31.29 Past Years Interest on Security Deposit Paid 9 20.42 5.50 5.36 10 Balance Interest on Security Deposit to be Paid 3.71 1.13 2.16 6.67 0.00 during control Period

Rs.Crs

#### Revenue from Current Tariff in ensuing year

					Revenue for F	Y 2022-23 at th	ie Tariff Ap	proved	n FY 2022-23 with	sales in (kVAh	i) i.e. kVAh Bill	ing (Project	ion for Octo	ber 2022 to March	2023 (H2)									
					Component	s of tariff				Relevant sales	& load/dema	nd data for			Full year rev	enue (Rs. C	(rore)			Ratio of Average			1.	
SI. No.	Category	No. of consumers	Fixed Charges (specify	Fixed	Demand Charges	Demand	Energy Charges	_		sanctioned	Contract	Sales in	pf Considere	Revenue from	Revenue	Revenue	Revenue		Average	Average Billing Rate to Average Cost of	FY 2022-23 (H)	) Total	Revenue	Subsidy Provided b
SI. NO.	Category	No. or consumers	part name and unit)	Charge	(specify part name and unit)	Charge	(specify part	Charge	Fuel surcharge per unit, if any	Load in kW	Demand in KVA/MVA	MU	d	Fixed Charges	Demand	Energy	from fuel surcharge	Total	Billing Rate (Rs/kWh)	Cost of Supply @ Rs/kWh	Revenue	Revenue	Order Fy 2022-23	the Governmen
							name and unit)								Charges	Charges				Rs/kWh (%)			2022-23	
1	Domestic																			(-4			-	1
	11 KV Voltage Level Tariff HTD/Domestic	4			Rs./kVA/Month		Rs./kWh	4.6			400	0.19		0.03		0.09		0.12	6.03		0.1	0.2	3 0.22	2 -0.0
	Tariff-HTTS/Temporary Supply (HT Domestic)	c			Rs./kVA/Month	165	Rs./kWh	6.90			0		0.90	0.00				0.00					<u> </u>	
	LT Voltage Level Tariff LTD/Domestic and Non-Commercial																							
		563341.13								1787294.33		624.45		21.45	0.00	167.74	0.00	189.19	3.03		180.1			
	0-100 units 101-200 units	154240	Rs./kW/ Month Rs./kW/ Month	20	0		Rs./kWh Rs./kWh	1.60 2.35		545533.45 393554.95		226.01		6.55		36.16 34.58		42.71 39.31			38.8 37.1	81.5	15 86.98	8 6.2
	201 to 300 units 301 to 400 units	93463 44941	Rs./kW/ Month Rs./kW/ Month	20	0		Rs./kWh Rs./kWh	2.95 3.90		308715.27 184796.40		84.53 49.51		3.70		24.94 19.31		28.64			26.7	55.4	2 57.86	6 4. 2 2.
	Above 400 units	54560	Rs./kW/ Month	20	0		Rs./kWh	4.50		354694.27		117.23		4.26		52.75		21.52			56.6	113.6	7 112.87	2 8
	Tariff LTD/Low Income Group	903	Rs./kW/ Month	20	)			0		71.00		0.42		0.00				0.00	0.02		0.0	0.0	0 0	0 0.
	Tariff-LT/Temporary Domestic	1755								2060.03		0.57		0.04		0.14		0.17	3.05		0.1	5 0.3	4 0.3	3 -0.
	0-100 Units		Rs./kW/Month	30.00			Rs./kWh	2.40		2060.03		0.57		0.04		0.14		0.17	3.05		0.1			
	101 to 200 Units 201 to 300 Units	0	Rs./kW/Month Rs./kW/Month	30.00 30.00			Rs./kWh Rs./kWh	3.53		0.00		0.00		0.00				0.00						-
	301 to 400 Units Above 400 Units	C	Rs./kW/Month Rs./kW/Month	30.00	0		Rs./kWh Rs./kWh	5.89		0.00		0.00		0.00				0.00					<b>—</b>	
				30.00			No./KWII	6.73																
	Sub-Total	566003.61								1789425.36	400.00	625.63		21.51	0.00	167.97	0.00	189.48	3.03		180.4	4 369.9	398.26	6 28.
2	Commerical 33 kV & 11 kV Voltage Level																						$\pm$	<u> </u>
	Tariff HT-Commercial	315			Rs./kVA/Month	250	Rs./kWh	5.29			118643.852	92.16	0.98	17.80		49.50		67.30	7.30		64.0	9 131.3	96.74	4 -34
	33 kV Voltage Level Tariff HT-Commercial																					-	<b>—</b>	1
		l																					+	1
	11 kV Voltage Level Tariff HT-Commercial	0																					1	+
	Tariff-HTTS/Temporary Supply (HT Commercial)	16			Rs./kVA/Month	375	Rs./kWh	7.88			7082.74528	3.39	0.98	1.59		2.73		4.32	12.76		4.1	2 8.4	4 2.11	1 -6.
	IT Voltage Level																							
	Tariff-LTC/Commercial 0-20 KW/Commercial Consumers	108,065.20								404,212.69		259.28		11.16		125.32		136.48	5.26		129.9	7 266.4	IS 249.9	9 -16.5
	1-100 Units		Rs./kW/Month	40			Rs./kWh	3.55		110455.55		39.62		2.65		14.07		16.72			15.9	32.6	i3 32.28	8 -0.
	101-200 units 201-400 Units	13173	Rs./kW/Month Rs./kW/Month	40	0		Rs./kWh Rs./kWh	4.39		35555.95 42109.34	1	24.48 30.44		0.85		10.65 14.76		11.50			10.9	22.4	9 32.3	3 1.
	Above 400 units >20-90Kw Commercial Consumers 1-100 Units		Rs./kW/Month	40			Rs./kWh	5.25		94742.29		95.37		2.27		50.07		52.34			49.8	102.1	9 162.83	
	1-100 Units 101-200 units	397	Rs./kW/Month Rs./kW/Month	60 60	0		Rs./kWh Rs./kWh	3.55		13490.95 3514.95		1.96		0.49		0.70		1.18			1.1	2.3	1	-2.
	201-400 Units Above 400 units	210	Rs./kW/Month Rs./kW/Month Rs./kW/Month	60 60	0		Rs./kWh Rs./kWh Rs./kWh	4.89		3514.95 6709.39 97634.27		1.87 3.56 61.97		0.24		1.73		1.97			1.8	3.8	IS	-3.
	Tariff-LT/Temporary Commercial	C		0.			KS./KWII	5.43																
	0-20 KW/Commercial Consumers	3248								5466.23		1.62		0.18		0.00		0.18	1.14		0.1			7 7.
	0-100 Units 101 - 200 Units	3248	Rs./kW/Month Rs./kW/Month	60			Rs./kWh Rs./kWh	5.33		5137.65				0.18				0.18			0.1	8 0.3	16 7.77	7 7.
	201 - 400 Units	C	Rs./kW/Month	60	0		Rs./kWh	7.28		0.00				0.00				0.00						0.
	Above 400 Units >20-90Kw and above Commercial Consumers	C	Rs./kW/Month	60			Rs./kWh	7.88		0.00				0.00				0.00					+	0.
	0 - 100 units 101 - 200 units	0	Rs./kW/Month Rs./kW/Month	90 90			Rs./kWh Rs./kWh	5.33		0.00				0.00				0.00					1	0.
	201-400 units Above 400 units		Rs./kW/Month Rs./kW/Month	90			Rs./kWh Rs./kWh	7.28		0.00				0.00				0.00					+	0.
				~			14.4 KW11	7.00											5.84				1	
	Sub-Total	111644.98								409678.91	125726.60	356.45		30.73		177.55		208.29	5.84		198.3	5 406.6	356.52	2 -50.
3	Public Lighting LT Voltage Level																						+	
	Tariff-LTPL/Public Lighting Unmetered LTPL	6284	Rs./kW/Month	70			Rs./kWh	5.65		9767.49		17.60		0.41		9.94		10.35	5.88		9.8	5 20.2	1 16.96	6 -3.
	Assistational Rumanate																						1	
	HT Voltage Level (33 kV & 11 kV)																					1	+	1
	HT-Agriculture Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	43			Rs./HP/Month		Rs./kWh	1.60			12785.47	3.43		0.31		0.55		0.86	2.51		0.8			
	Tariff-HTAG/Agriculture (Allied Activities) (B)	3			Rs./HP/Month	70	Rs./kWh	1.95			3037.58	7.85	0.99	0.13		1.54		1.67	2.13		1.5	3.2	16 2.24	4 -1.
	HT Voltage Level (33 kV) HT-Agriculture																						+	-
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)																						1	1
	Tariff-HTAG/Agriculture (Allied Activities) (B)							-															+	+
	HT Voltage Level (11 kV) HT-Agriculture																						<del> </del>	
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A) Tariff-HTAG/Agriculture (Allied Activities) (B)	0																				-	<b>—</b>	1
																							+	1
	LT Voltage Level LT-Agriculture																						+	1
	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	12742	Rs./HP/Month	18			Rs./kWh	1.50		61719.91		10.34		0.67		1.55		2.22	2.14		2.1	4.3	13 3.69	
	Tariff-LTAG/Agriculture Allied (B)	295	Rs./HP/Month	25			Rs./kWh	1.75		3130.16		0.80		0.05		0.14		0.19	2.33		0.1	8 0.3		
	Sub-Total	13083.59			-					64850.08	15823.06	22.44		1.15		3.79		4.94	2.20		4.7	9.6	i4 7.59	9 -2
5	Small Power																						1	1
	LT Voltage Level LTI-Industry	5851.43								189972.11		47.15		5		18		22.69	4.81		21.6			2 -6
	0-500 Units Above 500 units	4032	Rs./HP/Month Rs./HP/Month	40			Rs./kWh Rs./kWh	3.40		87667.14		8.86		2.10		3.01 15.12		5.12 17.58			4.8	7 9.9 4 34.3	29.22	9 -1 2 -5
	Tariff-LTP/Mixed (Hotel Industries)	119	Rs./kW/Month	50			Rs./kWh	5.29		2434.57		2.11		0.07		1.11		1.18	5.60		1.1	2 2.3	2.49	9 0
	Sub-Total	5970.78			-					192406.68	0.00	49.25		4.63		19.24		23.87			22.7	4 46.6	40.61	1 -6
	Medium Supply 11kV, Large Supply 33 kV & Bulk																					1	+	1
6	Supply 110 kV 33 kV / 11 kV & 110 kV Voltage Level Tariff HTI/Industrial																					+	+	
	Tariff HTI/Industrial	807			1						583061	868		87		417		504.06	5.80		480.0	984.0	892.58	3 -91

Form F23

irm F23													Revenue fro	m Current T	avitt in enri	ulosuor								
1	33 kV/11kV	80		1	Rs./kVA/Month	250	Bs./kWh	4.80		501064.048	741.90	1.00			356.80	and lear	431.96	5.82		411.35	843.31	751.36	-91.95	1
	110kV	00		-	Rs./kVA/Month		Bs./kWh	4.70		81996.5475		0.99			59.79		72.09	5.70		68.65	140.75	141.22	0.47	1
H.T.Industrial (Ferro	Mettallurgical/Steel Melting/ Power Intensive)	z	8		Rs./kVA/Month		Rs./kWh	4.80		111982.675		0.95	16.80		129.12		145.92	5.70		138.96	284.88	292.2	7.32	I.
HT	MES/Defence Establishments	1			Rs./kVA/Month	200	Bs./kWh	4 90		8799.37025	5 15.75	0.81	1.06		9.54		10.60	6.73		10.09	20.70	15.43	-5.27	i i
	,																				-			i i
	Sub-Total	844.8	**							703842.64	1140.41		105.31		555.27		660.58	5.79		629.05	1289.63	1200.21	-89.42	j.
																								4
	lium Supply																							4
11 kV Voltage Level																								4
	ndustrial (Connected at 11 kV)																							4
H.T.Industrial (Ferro	Mettallurgical/Steel Melting/																							i.
	Power Intensive)										I													i i
H.T.	MES/Defence Establishments										1													i i
											1													i i
	Sub-Total																							i i
		1									1													i.
7 Lar	rge Supply																							i i
33 kV Voltage Level																								i i
	ndustrial (Connected at 33 kV)																							i i
	Mettallurgical/Steel Melting/																							i i
in the second president of the second s	Power Intensive)																							i i
U.T.	MES/Defence Establishments						-																	i i
	Sub-Total		,				-																	i i
	505-1001						-																	i i
8 Bu																								i i
8 110 kV Voltage Level	Ik Supply																							1
																								i i
Tariff HTI/in	dustrial (Connected at 110 kV)																							i i
																								1
33 kV Voltage Level																								4
	Single Point Supply		L							2,500	3.78		0.33	0.00	1.85	0.00	2.18	5.78		2.08	4.26	3.67	-0.59	i i
	Residential Complexes				Rs./kVA/Month		Rs./kWh	3.55			I						0.00							4
	Commercial Complexes				Rs./kVA/Month		Rs./kWh	4.80		2500	3.78	0.98	0.33		1.85		2.18	5.78		2.08	4.26	3.67	-0.59	4
1	Industrial Complexes		1	1	Rs./kVA/Month	220	Rs./kWh	4.40	1	1	1						0.00							i i
																								i i
	Sub-Total	1.00								2500.00	3.78		0.33	0.00	1.85	0.00	2.18	5.78		2.08	4.26	3.67	-0.59	i i
											1													i.
9 Othe	r Categories																							i.
33 kV Voltage Level																								i i
Ele	ectric Vehicle Charging Station			1																				i i
11 kV Voltage Level				1																				i i
	iff-LT Hoarding and SignBoard	67	Rs./kVA/Month	70		1	Rs./kWh	10.00	555.17	1	0.17		0.02		0.17		0.20	11.35		0.19	0.38	0.20	-0.18	i i
	ectric Vehicle Charging Station	21							535.11		0.47	-	0.04		0.47		0.10	11.00	 		0.50	0.10	-0.10	i.
En	standing standing	1		1	1	1	+		1	1	1													i i
	Grand Total	703900	1	1	1	1	+		2466683.69	848292.29	2215 72		164.10	0.00	935.79	0.00	1099.89	4.95		1047.40	2147.29	2024.02	-123.27	0.484
	Grand Total	/03300	1	1					*************	WWW222.27	4442./3	1	104.10	0.00	12.12	0.00	4073.03	4.20		1047.40	2147.29	1014.02	-11.6.6/	. u.48

#### Revenue from Current Tariff in ensuing year

					Compor	nents of tariff				Relevant sales	& load/dema	nd data for			Full year	revenue (F	is. Crore)			Ratio o
il. No.	Category	No. of consumers	Fixed Charges (specify part name and unit)	Fixed Charge	Demand Charges (specify part name and unit)	Demand Charge	Energy Charges (specify part name and unit)	Energy Charge	Fuel surcharge per unit, if any	sanctioned Load in kW	Contract Demand in KVA/MVA	Sales in MU	pf Conside red	Revenue from Fixed Charges	Revenue from Demand Charges	Revenue from Energy Charges	Revenue from fuel surcharge	Total	Average Billing Rate (Rs/kWh)	Avera Billing F to Aver Cost ( Supply Rs/ (%)
1	Domestic 11 kV Voltage Level																			
		4			Rs./kVA/Month		Rs./kWh	4.6			400	0.39	0.96	0.05		0.19		0.24	6.16	
	Tariff-HTTS/Temporary Supply (HT Domestic)	0			Rs./kVA/Month	165	Rs./kWh	6.90			0	0.00		0.00				0.00		
	LT Voltage Level																			
	Tariff LTD/Domestic and Non- Commercial	563341.13								1881661.05		1385.41		45.16	0.00	372.16	0.00	417.32	3.01	
	0-100 units 101-200 units	216137	Rs./kW/ Month	20			Rs./kWh	1.60		574336.87 414334.12		501.44		13.78		80.23		94.01 86.67	1.87	
	201 to 300 units	93463	Rs./kW/ Month Rs./kW/ Month	20			Rs./kWh Rs./kWh	2.35		325015.01		326.50 187.54		9.94 7.80		76.73 55.32		63.12	2.65	
	301 to 400 units Above 400 units	44941 54560	Rs./kW/ Month Rs./kW/ Month	20			Rs./kWh Rs./kWh	3.90 4.50		194553.40 373421.65		109.83 260.09		4.67 8.96		42.83 117.04		47.50 126.00	4.33	
	Tariff LTD/Low Income Group		Rs./kW/ Month	20				0		71.00		0.93		0.00				0.00	0.02	
	Tariff-LT/Temporary Domestic	1755								2060.03		1.05		0.07		0.25		0.33		
	0-100 Units	1755	Rs./kW/Month	30.00			Rs./kWh	2.40		2060.03		1.05		0.07		0.25		0.33		
	101 to 200 Units 201 to 300 Units	0	Rs./kW/Month Rs./kW/Month	30.00			Rs./kWh Rs./kWh	3.53 4.43		0.00		0.00		0.00				0.00		
	301 to 400 Units Above 400 Units	0	Rs./kW/Month Rs./kW/Month	30.00			Rs./kWh Rs./kWh	5.85 6.75		0.00		0.00		0.00				0.00		
	Sub-Total	566003.61								1883792.08	400.00	1387.78		45.29	0.00	372.60	0.00	417.89	3.01	
	Sub-Total	500003.01								1863/92.08	400.00	1367.78		43.23	0.00	372.00	0.00	417.87	3.01	
2	Commerical 33 kV & 11 kV Voltage Level																			
	Tariff HT-Commercial	315		-	Rs./kVA/Month	250	Rs./kWh	5.25			131089.25	170.89	0.99	39.33		90.82		130.15	7.62	
	33 kV Voltage Level Tariff HT-Commercial	n																		
	11 kV Voltage Level Tariff HT-Commercial	0																		
	Tariff-HTTS/Temporary Supply (HT Commercial)	16			Rs./kVA/Month	375.00	Rs./kWh	7.88			7082.75	6.33	0.90	0.00		5.54		5.54		
	LT Voltage Level																			
	Tariff-LTC/Commercial	108,055.20								426,255.98		511.86		23.53		247,40		270.93	5.29	
	0-20 KW/Commercial Consumers 1-100 Units	60769	Rs./kW/ Month	40			Rs./kWh	3.55		116479		78.22		5.59		27.77		33.36		
	101-200 units 201-400 Units	15206	Rs./kW/ Month Rs./kW/ Month	40			Rs./kWh Rs./kWh	4.35		37495 44406		48.33 60.09		1.80		21.02 29.14		22.82 31.27		
	Above 400 units >20-90Kw Commercial Consumers	15593	Rs./kW/ Month	40			Rs./kWh	5.25		99909		188.27		4.80		98.84		103.64		
	1-100 Units 101-200 units	397	Rs./kW/Month	60			Rs./kWh	3.55		14227		3.88		1.02		1.38		2.40		
	201-400 Units	210	Rs./kW/Month Rs./kW/Month Rs./kW/Month	60			Rs./kWh Rs./kWh Rs./kWh	4.85		3707 7075 102959		3.70 7.04 122.34		0.27 0.51 7.41		1.61 3.41 64.23		1.88 3.92 71.64		
	Above 400 units >90 KW Commercial consumer	2608	Rs./KW/Month	60			KS./KWN	5.25		102959		0.00				64.23				
	0 - 100 units 101 - 200 units	0								0		0.00		0.00				0.00		
	201-400 units Above 400 units	0								0		0.00		0.00				0.00		
	Tariff-LT/Temporary Commercial	0 3248								5466		3.03		0.39		0.00		0.39	1.28	
	0-20 KW/Commercial Consumers	0								0		3.03				0.00			1.20	
	0-100 Units 101 - 200 Units	Ö	Rs./kW/ Month Rs./kW/ Month	60 60			Rs./kWh Rs./kWh	5.33 6.53		5395				0.39				0.39		
	201 - 400 Units Above 400 Units	0	Rs./kW/ Month Rs./kW/ Month	60 60			Rs./kWh Rs./kWh	7.28		0				0.00		-		0.00		
>20-908	w and above Commercial Consumers	0	Rs./kW/Month	90			Rs /kWh	5 3 3		0				0.00				0.00		
	101 - 200 units	0	Rs./kW/Month Rs./kW/Month	90 90			Rs./kWh Rs./kWh	6.53		0				0.00				0.00		
	201-400 units Above 400 units		Rs./kW/Month	90			Rs./kWh	7.88		0				0.00				0.00		
	Sub-Total	111660.98								431722.21	138172.00	692.11		63.25		343.76		407.01	5.88	
3	Public Lighting																			
	LT Voltage Level	6784	Rs./kW/Month				Rs./kWh			10050 51										
	Tariff-LTPL/Public Lighting Unmetered LTPL	6284		70				5.65		10060.51		50.09		0.85		28.30		29.14	5.82	
	Agricultural Pumpsets																			
4	HT Voltage Level (33 kV & 11 kV)																			
	HT-Agriculture Tariff-HTAG/Agriculture (Pump	43			Rs./HP/Month	40	Rs./kWh	1.60			13408.00	6.51	0.81	0.64		1.29		1.93	2.97	
	Sets/Irrigation) (A) Tariff-HTAG/Agriculture (Allied	43						1.00												
	Activities) (B)	3			Rs./HP/Month	70	Rs./kWh	1.95			3185.49	14.90	1.00	0.27		2.90		3.17	2.13	
	HT Voltage Level (33 kV)																			
	HT-Agriculture Tariff-HTAG/Agriculture (Pump			-																t
	Sets/Irrigation) (A) Tariff-HTAG/Aariculture (Allied							-												<u> </u>
	Activities) (B)																			<u> </u>
	HT Voltage Level (11 kV)																			
	HT-Agriculture Tariff-HTAG/Agriculture (Pump	0			-			-												1
	Sets/Irrigation) (A) Tariff-HTAG/Agriculture (Allied Activities) (B)	0		-																
		0																		<u> </u>
	LT Voltage Level LT-Agriculture																			
	Tonff-LTAG/Agriculture (Pump	13125	Rs./HP/Month	18			Rs./kWh	1.50		63571.51		19.05		1.37		2.86		4.23	2.22	
	Sets/Irrigation) (A) Tariff-LTAG/Agriculture Allied (B)		Rs./HP/Month	25			Rs./kWh	1.75		3224.07		1.48		0.10		0.26		0.36	2.40	
	Sub-Total	13474.72		_			-			66795.58	16593.48	41.95	_	2.38		7.31		9.69	2.31	
	Small Power																			
	LT Voltage Level																			
	LTI-Industry	6026.97								195671.27		94		9.39		36.08		45.47	4.85	1

Add         Add <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>R</th> <th>evenue from</th> <th>Current Ta</th> <th></th> <th>uing year</th> <th></th> <th></th> <th></th>												R	evenue from	Current Ta		uing year			
Image: state interpretation of the state interpretatinterest of the state interpretating interpretating interpretation		1874	Rs./HP/Month	40			Rs./kWh	3.95	105374.12		76.17		5.06		30.09		35.14		
Image: state         Image: state<	Tariff-LTP/Mixed (Hotel Industries)	172	Rr /WW/Month	50			Rr (MMb	5.25	2567.24		4.16		0.15		2 10		2.24	5.67	
Image: state			Ki, Ki (Monta)	~			147,64411	5.25	2,507.54		4.10		0.13		1.19		1.04	5.04	
Image: state																			
Model         Model <t< td=""><td>Sub-Total</td><td>6150.17</td><td></td><td></td><td></td><td></td><td></td><td></td><td>198238.61</td><td>0.00</td><td>97.96</td><td></td><td>9.55</td><td></td><td>38.26</td><td></td><td>47.81</td><td></td><td></td></t<>	Sub-Total	6150.17							198238.61	0.00	97.96		9.55		38.26		47.81		
Max         Max <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																			
Max         Max <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																			
Note:         Note:         No.	Medium Supply 11kV, Large Supply																		
Improvement         Improvement	33 kV & Bulk Supply 110 kV																		
BAY/34         BAY         BAY         AB         Control         BAY         AB         Control         BAY         Control         Contro         Control         Contro         Contro         Contro         Contro         Contro         Contro         Contro         Contro        <																			
intro    intro   <																			
Normalizational formational statements         Normalizational statements <td></td> <td>826</td> <td></td>		826																	
Settime         <		ь			RS/KVA/Month	250	KS./KWh	4.70		85300.64	253.34	1.00	25.59		119.30		144.89	5.72	
NAME     NAME					D. 01/0 (34-14)	210	D. 0.140	4.00		110 100 07	543.04	1.00	24.05		347.30		202.45	r ra	
Image: state of the s	Sceenweiung/ Power Incensive/	24			KS./KVA/MORDI	250	KS./KWII	4.60		110495.07	512.94	1.00	34.93		247.20		282.15	5.50	
Image: state of the s				-				-											
Math         Math <th< td=""><td>H.T. MES/Defence Establishments</td><td>15</td><td></td><td></td><td>Rs./kVA/Month</td><td>200</td><td>Rs./kWh</td><td>4.90</td><td></td><td>9223.22</td><td>33.43</td><td>0.95</td><td>2.21</td><td></td><td>17.20</td><td></td><td>19.41</td><td>5.81</td><td></td></th<>	H.T. MES/Defence Establishments	15			Rs./kVA/Month	200	Rs./kWh	4.90		9223.22	33.43	0.95	2.21		17.20		19.41	5.81	
Math         Math <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																			
Mathemapy Interpretation (1)         Mathemapy (1)         Mathemapy (1) <thmathmamapy (1)         Mathemapy (1)</thmathmamapy 	Cub. Total	971 ***		-	-					722222 ***	2294 00		210 ***		1115.00		1224 00	5.04	
Hittopic tent         Image: space	300-101	8/1.53								/ 342/3.00	44.04.77		19.13				1.34.60	3.04	
Hithologeneration         Image in the state in the	Medium Supply																		
Influence         Influence <thinfluence< th="">         Influence         <thinfluence< th="">         Influence         Influence</thinfluence<></thinfluence<>																			
11.04         11.04 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																			
Instruction         Instruction																			
Instruction         Instruction	H.T.Industrial (Ferro Mettallurgical/																		
$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Steel Melting/ Power Intensive)																		
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33.00         1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0																			
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	Steel Melting/ Power Intensive)																		
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	H.I. MES/Defence Establishments	0																	
MAG sopp:         Mag sopp: <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																			
	Sub-Total																		
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$ \begin barrier barr$	33 kV Voltage Level																		
Resident Compone         NetWorkshow         108 RAVM         108 RAVM         35          0         0         0         0         0         107         57           Common Compone         Is NurVAMouth         220 RAVM         48          200 RAVM         100 RAVM		1								2,500	6.68		0.66	0.00	3.21	0.00	3.87	5.79	
Converse/Compare         1         Ka/VA/Aboxt         220         Ka/V         4.0         -	Residential Complexes					110							0.00		0.00		0.00		
Inductor Component         Image: Component and the component and the		1								2500	6.68	1.00						5.79	
Other Categories         Other Categories<	Industrial Complexes						Rs./kWh	4.40					0.00		0.00		0.00		
Other Categories         Other Categories<																			
31/V dog Lott <sup>2</sup> -     - <td>Sub-Total</td> <td>1.00</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2500.00</td> <td>6.68</td> <td></td> <td>0.66</td> <td>0.00</td> <td>3.21</td> <td>0.00</td> <td>3.87</td> <td>5.79</td> <td></td>	Sub-Total	1.00		1						2500.00	6.68		0.66	0.00	3.21	0.00	3.87	5.79	
BitVolge Lota <sup>6</sup> Constrained         Constrained																			
Betric Vehicic Charge Statio         C        C         C         C<																			
But Workshow         MAXWAMM         Image: Constraint of the state														-					
Tariff. Historic gast Significant Bechic Vehicle Charging Station         Phy. Avv./Month Phy. br>Avv./Month Phy. Avv./Month Phy. Avv./Month Phy. Avv./Month Phy.																			
Tariff. If Houring and Signbaard         Ph         10.00         \$77.83         0.34         0.05         0.34         0.39         11.41           Betric Vehicle Dauring station	11 kV Voltage Level																		
Tariff Li Hoarding and Spinkoud 70 10.00 100 100 100 100 100 100 100 100		69	Rs./kVA/Month	1	1		Rs./kWh	1	571.83		0.34		0.05		0.34		0.39	11.41	
				70				10.00	571.05		0		0.05		0.54		0.35		
	Electric Vehicle Charging Station							I											

No. Category Round and the control of the control o						Components o	f tariff	r		at the Tariff App	Relevant sale	is & load/den	nand data			Full yea	r revenue (R	ls. Crore)	_		Rati
Image         Image <th< th=""><th>No.</th><th>Category</th><th>No. of consumers</th><th>Fixed Charges (specify part name and unit)</th><th>Fixed Charge</th><th>Demand Charges (specify part name and unit)</th><th>Demand Charge</th><th>Charges (specify part name and</th><th>Energy Charge</th><th>Fuel surcharge per unit, if any</th><th>sanctioned Load in kW</th><th>Demand in</th><th>Sales in MU</th><th>Conside</th><th>from Fixed</th><th>Revenue from Demand Charges</th><th>from Energy</th><th>from fuel</th><th>Total</th><th><b>Billing Rate</b></th><th>Ave Billin to Av Co Sup F</th></th<>	No.	Category	No. of consumers	Fixed Charges (specify part name and unit)	Fixed Charge	Demand Charges (specify part name and unit)	Demand Charge	Charges (specify part name and	Energy Charge	Fuel surcharge per unit, if any	sanctioned Load in kW	Demand in	Sales in MU	Conside	from Fixed	Revenue from Demand Charges	from Energy	from fuel	Total	<b>Billing Rate</b>	Ave Billin to Av Co Sup F
Image: state         Image: state<		Domestic																			
Norm         Norm        Norm        Norm         N			4									400	0.39				0.21			7.07	
Norm         Norm        Norm        Norm         N		Tariff-HTTS/Temporary Supply (HT Domestic)	0			Rs./kVA/Month	187.50	Rs./kWh	7.95			0		0.90	0.00		-		0.00		
BAD BOOM         BAD BOOM        BAD BOOM        BAD BOOM        BAD BOOM        BAD BOOM <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																					
		Tariff LTD/Domestic and Non-	563341.13								1881661.05		1385.41		49.68	0.00	415.50	0.00	465.18	3.36	
		0-100 units	216137	Rs./kW/ Month	22.00			Rs./kWh	1.75		574336.87		501.44		15.16		87.75		102.91		
Binome         Binome<		101-200 units	154240	Rs/kW/ Month	22.00			Rs./kWh	2.60		414334.12		326.50		10.94						
Subset         Subset        Subset        Subset <td></td> <td>301 to 400 units</td> <td>44941</td> <td>Rs./kW/ Month</td> <td>22.00</td> <td></td> <td></td> <td>Rs./kWh</td> <td>4.40</td> <td></td> <td>194553.40</td> <td></td> <td>109.83</td> <td></td> <td>5.14</td> <td></td> <td>48.33</td> <td></td> <td>53.46</td> <td></td> <td></td>		301 to 400 units	44941	Rs./kW/ Month	22.00			Rs./kWh	4.40		194553.40		109.83		5.14		48.33		53.46		
Note         Note <th< td=""><td>_</td><td>Above 400 units</td><td>54560</td><td>Rs./kW/ Month</td><td>22.00</td><td></td><td></td><td>Rs./kWh</td><td>5.10</td><td></td><td>373421.65</td><td></td><td>260.09</td><td></td><td>9.86</td><td></td><td>132.65</td><td></td><td>142.50</td><td></td><td></td></th<>	_	Above 400 units	54560	Rs./kW/ Month	22.00			Rs./kWh	5.10		373421.65		260.09		9.86		132.65		142.50		
		Tariff LTD/Low Income Group	903	Rs./kW/ Month	22.00						71.00		0.93		0.00				0.00	0.02	
		Tariff-LT/Temporary Domestic									2060.03		1.06		0.08		0.28		0.36		-
Mate of the Normal and Partial problem         Math of Normal Act of Partial Partia Partial Partial Partial Partial Partial Partial P	_	0-100 Units	1755	Rs./kW/Month Rs./kW/Month	33.00			Rs./kWh Rs./kWh	2.63		2060.03		1.06		0.08		0.28			3.40	
Added model         Added model		201 to 300 Units	ō	Rs./kW/Month	33.00			Rs./kWh	4.95		0.00		0.00		0.00				0.00		
Name         No         o        No         No<	+	301 to 400 Units Above 400 Units	0	Rs./kW/Month Rs./kW/Month	33.00 33.00			Rs./kWh Rs./kWh	6.60												-
Name         No         o        No         No<		Cub Tatal	50000 CI								4003202.00		4303.30		40.03				465.00	2.26	
Intra         Intra<         Intra         Intra<         ntra<        Intra<		SUB-TOTAL	500003.61								1065/72.08	-00.00	1367.78		49.82	0.00	410.00	0.00	403.82	3.30	E
Intra         Intra<         Intra         Intra<         ntra<        Intra<		Commerical I3 kV & 11 kV Voltage Level																			
Image         Image <t< td=""><td>1</td><td>Tariff HT-Commercial</td><td></td><td></td><td></td><td>Rs./kVA/Month</td><td>285.00</td><td>Rs./kWh</td><td>6.00</td><td></td><td></td><td>131089.25</td><td>170.89</td><td>0.99</td><td>44.83</td><td>-</td><td>103.79</td><td></td><td>148.63</td><td>8.70</td><td>F</td></t<>	1	Tariff HT-Commercial				Rs./kVA/Month	285.00	Rs./kWh	6.00			131089.25	170.89	0.99	44.83	-	103.79		148.63	8.70	F
brieff Control         brieff Contro         brieff Co		13 kV Voltage Level	16																		
During and any of the set of the	-	Tariff HT-Commercial							L												L
Interpretation         Interp		11 kV Voltage Level												-							-
Ubbit         Ubbit <t< td=""><td></td><td>Tariff-HTTS/Temporary Supply (HT</td><td>16</td><td></td><td></td><td>Rs./kVA/Month</td><td>427.50</td><td>Rs./kWh</td><td>9.00</td><td></td><td></td><td>7082.75</td><td>6.33</td><td>0.90</td><td>0.00</td><td></td><td>6.33</td><td></td><td>6.33</td><td></td><td></td></t<>		Tariff-HTTS/Temporary Supply (HT	16			Rs./kVA/Month	427.50	Rs./kWh	9.00			7082.75	6.33	0.90	0.00		6.33		6.33		
Dist Die         Die <thdie< th="">         Die         <thdie< th=""> <thdie< <="" td=""><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></thdie<></thdie<></thdie<>	+																				-
	l	T Voltage Level	108 055 20								436 366 00		C11 9C		76.96		201.26		202.21	6.02	
Bit Date         Distal         Distal <thdistal< th=""> <thdistal< th=""> <thdistal< <="" td=""><td></td><td>0-20 KW/Commercial Consumers</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.02</td><td></td></thdistal<></thdistal<></thdistal<>		0-20 KW/Commercial Consumers																		0.02	
Adde         Adde <th< td=""><td>+</td><td>101-200 units</td><td>15206</td><td>Rs./kW/ Month</td><td>45.00</td><td></td><td></td><td>Rs./kWh</td><td>4.85</td><td></td><td>37495</td><td></td><td>48.33</td><td></td><td>2.02</td><td></td><td>23.44</td><td></td><td>25.47</td><td></td><td></td></th<>	+	101-200 units	15206	Rs./kW/ Month	45.00			Rs./kWh	4.85		37495		48.33		2.02		23.44		25.47		
Non-control channel         Non-control channel					45.00										2.40						
111         111         111         110 <td></td> <td>&gt;20-90Kw Commercial Consumers</td> <td></td>		>20-90Kw Commercial Consumers																			
Alt Alt Alt Alt Alt Alt Alt Alt Alt Alt	-	1-100 Units 101-200 units	397	Rs./kW/Month Rs./kW/Month	70.00						14227		3.70		1.20		1.55		2.75		-
Box Conservations         B		201-400 Units	210	Rs./kW/Month	70.00			Rs./kWh	5.50		7075		7.04		0.59				4.46		
And Mark         And Mark		Above 400 units >90 KW Commercial consumer	2808	RS/KW/MONEN	70.00			N5./KWII	6.00		102959		0.00				73.40				
Adder Adder of all and all all all all all all all all all al	-	0 - 100 units 101 - 200 units	0								0		0.00		0.00				0.00		-
Dath (process)         Dath (p		201-400 units	0								0		0.00		0.00				0.00		
			0								U										
• 0 100 km         0 200 km	-		3248								5466		3.03		0.44		0.00		0.44	1.44	-
Above GD Low         OBA, AV         OBA         A, AV         OBA         A, AV         OBA         A         A         B         A         A         B         A         A         B         A         A         B         A         A         B         A         A         B         A         <		0-100 Units			67.50			Rs./kWh	6.00		5395				0.44						
Non-ordinal conditional condital conditional conditional conditional conditiona		201 - 400 Units	0	Rs./kW/ Month	67.50			Rs./kWh	8.25		0				0.00				0.00		
Common         SA. MOMON         SO         A. M.         SO         SO         SO         SO	+	Above 400 Units >20-90Kw and above Commercial	0	Rs/kW/ Month	67.50			Rs./kWh	9.00		0				0.00				0.00		-
101 200001         084, Alf Macheni         080 $h_A Max$ 7.2         0.6         0.7         0.60         1.000         1.000         0.000	_	Consumers		D. 044/04-10	405.00			D. Date	6.00						0.00				0.00		
Addree days         Obset         N		101 - 200 units		Rs./kW/Month				Rs./kWh			0				0.00				0.00		
Image: section of the sectio	+	201-400 units Above 400 units	0	Rs./kW/Month Rs./kW/Month	105.00			Rs./kWh Rs./kWh	8.25		0				0.00				0.00		⊢
Additional Traditional Advectories Traditional Advectories Traditabaa Traditabaa Traditional Advectories Traditional Advectorie	_										421722.24	120173 ^^	607 **				201 **			6.70	
I water     I water			11000.98									1/2/10	J32.11		12.13		.31.48		-03.01	0.70	
Instrum         Cold		T Voltage Level																			
Applicational Number in the second	-	Tariff-LTPL/Public Lighting	6284	Rs./kW/Month	72.00			Rs./kWh	5.80		10060.51		50.09	-	0.87		29.05		29.92	5.97	F
dividuality         image: space of the space of th																					
Integration         Image: space s		IT Voltage Level (33 kV & 11 kV)																			
	f	HT-Agriculture							-												+
$ \begin{array}{                                    $	_	Sets/Irrigation) (A)	43																		L
image: selection (1) // selection		ranjj-н гањ/Agriculture (Allied Activities) (В)	3			Rs./HP/Month	77.00	Rs./kWh	2.15			3185.49	14.90	1.00	0.29		3.19		3.48	2.34	
interfactor         interfactor	-																				
Sthumpstering (h)         Image: Structure (h)         Image: Struc	1	HT-Agriculture																			F
introduction         introduction<																					
introduction         introduction<	ſ	Tariff-HTAG/Agriculture (Allied Activities) (B)												_							1
Interfacional relations from any and any and any and any any any any any any any any any any					_																
Structurestication         Activity         Activity <td></td> <td>HT-Agriculture</td> <td></td> <td>E</td>		HT-Agriculture																			E
Tartific Approximation from participation and provide into a state of the		Sets/Irrigation) (A)	0							[											1
Order         Control		Tariff-HTAG/Agriculture (Allied	0																		
Uterchardware         Stability																					
Implifundamentary Promp         11123         R.A.PMAnda         20.0         R./.Wash         150         151         1103         1103         100         14.57         24.57           Interfragmentary Promp         1133         R.A.PMAnda         20.0         6.50%         120.0         1103	-	LT-Agriculture																			1
Substitution         Substitution<	3	Tariff-LTAG/Agriculture (Pump	13125	Rs./HP/Month	20.00			Rs./kWh	1.60		63571.51		19.05		1.53		3.05		4.57	2.40	
Shaffware         134072         Image: Constraint of the state of t		Tariff-LTAG/Agriculture Allied (B)																			
I Stall Power I Voltas Long	┩		13474.77						-			16593,48			2.60		7,90				<u> </u>
I Yoftge Levi		Small Brown																			
		T Voltage Level																			

23													6 m C .		ensuing year			
Above 500 units	1874	Rs./HP/Month	41.00	r		Rs/kWh	4.05	105374.12		76.17	r —	Revenue 5.18	from Curre	nt Tariff in 30.85	ensuing year	36.03		
Tariff-LTP/Mixed (Hotel Industries)																		
	123	Rs./kW/Month	55.00			Rs./kWh	5.60	2567.34		4.16		0.17		2.33		2.50	6.01	
Sub-Total	6150.17							198238.61	0.00	97.96		9.80		39.35		49.14		
Medium Supply 11kV, Large Supply																		
6 33 kV & Bulk Supply 110 kV																		
33 kV / 11 kV & 110 kV Voltage Leve																		
Tariff HTI/Industrial	833								606555	1739		186		869		1054.67	6.07	
33 kV/11kV	826			Rs./kVA/Month		Rs./kWh	4.90		521254.67	1485.28	0.97	159.50		747.22		906.72	6.10	
110kV	6			Rs./kVA/Month	255.00	Rs./kWh	4.80		85300.64	253.34	1.00	26.10		121.84		147.94	5.84	
H.T.Industrial (Ferro Mettallurgical/																		
Steel Melting/ Power Intensive)	24			Rs./kVA/Month	255.00	Rs./kWh	4.90		116495.07	512.94	1.00	35.65		252.15		287.80	5.61	
H.T. MES/Defence Establishments	15			Rs./kVA/Month	200.00	Rs./kWh	4.90		9223.22	33.43	0.95	2.21		17.20		19.41	5.81	
																	0.02	
							I											
Sub-Total	871.59		I				I		732273.60	2284.99	I	223.47		1138.41		1361.87	5.96	
								 				_						
6 Medium Supply																		
11 kV Voltage Level Tariff HTI/Industrial (Connected at			-															
Tariff HTI/Industrial (Connected at 11 kV																		
H.T.Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive)																		
Steel Melting/ Power Intensive)																		
H.T. MES/Defence Establishments																		
H.I. MES/Defence Establishments																		
Sub-Total																		
300-1014																		
7 Large Supply																		
33 kV Voltage Level																		
Tariff HTI/Industrial (Connected at																		
33 kV																		
H.T.Industrial (Ferro Mettallurgical/	1																	
Steel Melting/ Power Intensive)																		
H.T. MES/Defence Establishments																		
	0																	
Sub-Total																		
	1 !																	
8 Bulk Supply																		
110 kV Voltage Level			1															
Tariff HTI/Industrial (Connected at			1															
110 kV	1		1															
33 kV Voltage Level																		
Single Point Supply	1								2,500	6.68		0.72	0.00	3.54	0.00	4.26	6.38	
Residential Complexes				Rs./kVA/Month		Rs./kWh	3.90				_							
Commercial Complexes	1		1	Rs./kVA/Month	240.00	Rs./kWh	5.30		2500	6.68	1.00	0.72		3.54		4.26	6.38	
Industrial Complexes	1		1	Rs./kVA/Month	240.00	Rs./kWh	4.90											
											_							
Sub-Total	1.00		1						2500.00	6.68		0.72	0.00	3.54	0.00	4.26	6.38	
			1				L											
9 Other Categories																		
33 kV Voltage Level																		
Electric Vehicle Charging Station			1				L											
11 kV Voltage Level																		
Tariff-LT Hoarding and SignBoard	69	Rs./kVA/Month	77.00			Rs./kWh	11.00	571.8251		0.34	I	0.05		0.37		0.43	12.55	
Electric Vehicle Charging Station	4						I											
1			1				1				1							
Grand Total	704515							2591180.81				359.45	0.00	2026.11	0.00	2385.56	5.23	

### Form F27

### **Details of Charges for Deviation**

			FY 20	21-22					FY 20	22-23		
Month	Energy Over-drawn	Energy Under- drawn	Charges for Deviation Payable	Charges for Deviation Receivable	Net of Charges for Deviation Payable and Receivable	Additional UI Charges	Energy Over-drawn	Energy Under- drawn	Charges for Deviation Payable	Deviation	Net of Charges for Deviation Payable and Receivable	Additional UI Charges
	MU	MU	₹ crore	₹ crore	₹ crore	₹ crore	MU	MU	₹ crore	₹ crore	₹ crore	₹ crore
April	2.28	5.49	0.99	1.34	-0.35	0.00	19.12	0.00	22.04	0.00	22.04	22.04
May	1.06	8.07	0.38	1.04	-0.67	0.00	7.14	0.47	4.82	0.09	4.74	4.74
June	0.72	1.96	0.30	0.30	0.00	0.00	4.50	0.00	3.61	0.00	3.61	3.61
July	0.88	3.07	0.29	0.70	-0.40	0.00	8.85	0.00	5.32	0.00	5.32	5.32
August	1.88	1.18	1.20	0.56	0.64	0.64	3.02	0.00	1.83	0.00	1.83	1.83
September	1.13	0.67	0.56	0.17	0.39	0.39	2.34	0.31	1.48	0.08	1.40	1.40
October	3.56	2.51	2.91	0.71	0.00	0.00						
November	2.35	3.81	1.49	0.98	0.00	0.00						
December	4.77	0.00	2.01	0.00	0.00	0.00						
January	5.43	0.00	1.94	0.00	0.00	0.00						
February	5.78	0.01	2.69		0.00	0.00						
March	21.64	0.00	22.03	0.00	0.00	0.00						
Total	51.47	26.77	36.79	5.80	-0.39	1.03	44.98	0.78	39.09	0.17	38.93	38.93

# Key Characteristics of the Distribution Network

			F	Y 2020-21			FY 2021-22		F	Y 2021-2	22			Co	ontrol Period
				Actual			Actual			Actual				I	Projections
			Checl	< the web si	te	As	on 30-09-20	21	As c	on 31-03-	2022	ŀ	Y 2022-23		FY 2023-24
S.No	Particulars	At the start of year	Additions during the year	Withdrawal from service	At the end of year	Additions during the year	Withdrawal from service	end of	Addition s during the year	from	end of	Additions during the year	nom	Additions during the year	Withdrawal from service
1	Length of Lines (ckt-km)														
	- 220 kV				180.28			180.28			180.28				
	- 110 kV				117.67			117			117				
	- 66kV														
	- 33kV				1511	72		1583	130	7	1706				
	- 11kV				4839	145		4984	58		5042				1
	- LT				7950	163		8113	202		8315				1
	Total				14597.95	380	0	14977	389.57	7	15360				
2	Number of Sub-Stations														
	- 220 kV				5	0	0	5	0	0	5				
	- 110 kV				2	0	0	2	0	0	2				
	- 66kV							0							
	- 33kV				48	3		51	0	0	51				
	- 11kV														
	Total				55	3	0	58	0	0	58				
3	Number of Power Transformers														
	- 220 kV				15			15			15				
	- 110 kV				16			16			16				
	- 66kV							0							
	- 33kV				117			117	5		122				
	Total							148							
4	Total MVA capacity of Power Transformers														
	- 220 kV				1150			1150							
	- 110 kV	1	1		670			460	1		1				
	- 66kV							0							ļ

# Key Characteristics of the Distribution Network

			F`	Y 2020-21			FY 2021-22		F	Y 2021-2	2				Co	ontrol Period
				Actual			Actual			Actual					F	Projections
			Check	the web sit	te	As	on 30-09-20	21	As o	on 31-03-2	2022	F	Y 2022-23			FY 2023-24
S.No	Particulars	At the start of year		Withdrawal from service	At the end of year	Additions during the year	Withdrawal from service	end of	Addition s during the year	wal from	At the end of year	Additions during the year	Withdrawal from service	At the end of year	during	Withdrawal from service
	- 33kV				934.2			934.2	42.6		976.8					
	Total							2544.2								

# Key Characteristics of the Distribution Network

			F	Y 2020-21			FY 2021-22		F	Y 2021-2	2				Co	ontrol Period
				Actual			Actual			Actual					F	Projections
			Check	k the web si	te	As	on 30-09-20	21	As o	on 31-03-	2022	I	FY 2022-23		F	Y 2023-24
S.No	Particulars	At the start of year	Additions during the year	Withdrawal from service	At the end of year	Additions during the year	Withdrawal from service			from	At the end of year	Additions during the year	Withdrawal from service	At the end of year	during	Withdrawal from service
	Number of Distribution Transformers				8219	47		8258	8		8266					
6	Total MVA Capacity of Distribution Transformers				2066.25	14.5		2080.8			2080.8					
													-			
7	Number of Consumer Energy Meters															
	- LT (less than 0.5 accuracy class)															
	- LT (better than 0.5 accuracy class)															
	- HT/EHT (less than 0.5 accuracy class)															
	- HT/EHT (0.2 accuracy class)															
	- HT/EHT (better than 0.2 accuracy class)															
	Total															
6	Number of Interface Points															
а	Number of Interface Points with ED-Goa															
b	Number of Interface Points with the other Distribution Licensees															
С	Total Interface Points															
d	Number of Interface Points with ABT compliant meters															
е	Number of Interface Points with other meters															
f	Number of Interface Points without meters															
7	Service Area (in Sq. Km)															
/																
8	Employee Strength															
	Technical										4812					
	Non- Technical										1108					
	Total															

	F	Y 2024-25	
end of		Withdrawal from service	At the end of year

	F	Y 2024-25	
At the end of year		Withdrawal from service	At the end of year

	F	Y 2024-25	
At the end of year	Additions during the year	Withdrawal from service	At the end of year

Form F29	Previou	s Year	Current Year	Control Period	
	Actual	Actual	Estimated	Projection	
Revenue Arrears and Agewise Analysis	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	

R

			I	FY 2020-21 (May	to April)			Age-wi	se Analysis (	Months)	
S.No.	Particulars	beginning of the year <mark>(May</mark>		the year(May 20	Arrears at the end of year(April 21 closing balance)	Percentage increase (+) Decrease (-)	Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years
		Crore	Crore	Crore	Crore		Crore	Crore	Crore	Crore	Crore
1	Sale of power within State	448.78	1815.29	1799.30	520.47						
2	Sale of power inter state										
3	Electricity duty	24.72	181.14	187.33	18.62						
4	Provision of unbilled revenue										
5	Dues from permantently disconnected consumers having arrears more than 10 lacs										
6	Miscellaneious receipts from consumers										
7	Less provision for doubtful dues from consumers										
8	Total (1+2+3+4+5+6-7)										
9	Details of litigation/disputes having dues more than Rs.10 lacs										
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'										

NOTE:This format should be filled for Previous Two Years, Current Year and each year of the Control Period for the MYT Filing

			FY 2021-22 (May to April)				Age-wise Analysis (Months)						
S.No.	Particulars	beginning of		the year(May 21		Percentage increase (+) Decrease (-)	Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years		
		Crore	Crore	Crore	Crore		Crore	Crore	Crore	Crore	Crore		
1	Sale of power within State	520.48	2019.13	1946.29	594.13								
2	Sale of power inter state												
3	Electricity duty	18.62	196.60	193.46	21.75								
4	Provision of unbilled revenue												
5	Dues from permantently disconnected consumers having arrears more than 10 lacs				72.67								
6	Miscellaneious receipts from consumers												
7	Less provision for doubtful dues from consumers												
8	Total (1+2+3+4+5+6-7)												
9	Details of litigation/disputes having dues more than Rs.10 lacs										1		
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'												

NOTE: This format should be filled for Previous Two Years, Current Year and each year of the Control Period for the MYT Filing

FY 2022-23 (May to Oct) Age-wise Analysis (Months)
--

S.No.	Particulars	beginning of the year(May 22 Opening	the year(May 22 to Oct 22	the year(May 22	• •	Percentage increase (+) Decrease (-)	Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years
		Crore	Crore	Crore	Crore		Crore	Crore	Crore	Crore	Crore
1	Sale of power within State	594.13	1254.25	1181.01	659.04						
2	Sale of power inter state										

3	Electricity duty	21.75	108.87	108.04	22.22			
4	Provision of unbilled revenue							
5	Dues from permantently disconnected consumers having arrears more than 10 lacs	72.67			74.65			
6	Miscellaneious receipts from consumers							
7	Less provision for doubtful dues from consumers							
8	Total (1+2+3+4+5+6-7)							
9	Details of litigation/disputes having dues more than Rs.10 lacs							
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'							

NOTE: This format should be filled for Previous Two Years, Current Year and each year of the Control Period for the MYT Filing

			F	Y 2023-24 (May	to April)		Age-wise Analysis (Months)					
S.No.	Particulars	Arrears at the	<b>Billed during</b>	Realised during	Arrears at the end	Percentage	Upto 6	6-12	12-24	24-36	More than	
		beginning of	the year	the year	of year	increase (+)	Months	Months	Months	Months	3years	
		the year				Decrease (-)						
		Crore	Crore	Crore	Crore		Crore	Crore	Crore	Crore	Crore	
1	Sale of power within State											
2	Sale of power inter state											
3	Electricity duty											
4	Provision of unbilled revenue											
5	Dues from permantently disconnected consumers having											
3	arrears more than 10 lacs											
6	Miscellaneious receipts from consumers											
7	Less provision for doubtful dues from consumers											
8	Total (1+2+3+4+5+6-7)											
9	Details of litigation/disputes having dues more than Rs.10											
9	lacs											
10	Steps proposed to be taken to improve collection and to											
10	reduce the revenue arrears'											

NOTE: This format should be filled for Previous Two Years, Current Year and each year of the Control Period for the MYT Filing

1			ous Year		Control Period	_					
		Actual	Actual	Estimated	Projection						
Revenue	Arrears of Government/ Local Bodies and Agewise Analysis	FY 2020-2	1 FY 2021-22	2 FY 2022-23	B FY 2023-24		1	1			
[			Age-wise Analysis (Months)								
S.No.	Particulars	Arrears at the		2020-21 (May t Realised		Percentage	Upto 6 Months		12-24 Months		Mor
5.110.		beginning of	the year(May	during the	end of year(April		opto o montifis	0-12 Months	12-24 Withtins	24-50 Withins	3yea
		the year(May	20 to April	year(May 20		Decrease (-)					oyca
		20 Opening	20 to April 21current	to April 21	balance)	Decrease (-)					
		Balance)	demand)	collection)	balancej						
	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore
1	Sale of power to the Government departments										
a	Fixed Charge	7.23	55.86	22.93	40.20	1			1		
b	Demand Charge	,									
с	Energy Charge	73.17	126.22	116.52	95.39						
d	FPPCA Charge	4.99	13.07	11.81	6.31						
e	Sundry Charges	-4.18	-2.49	1.55	-8.13						
f	Meter Rent	0.13	0.34	0.37	0.11						
g	DPC on energy	18.46	27.09	11.49	35.02						
2.1	Electricity duty	1.86	1.83	2.08	1.77						
2.2	DPC on Electricity Duty	0.72	0.58	0.50	0.94						
3	Provision of unbilled revenue										
	Dues from permantently disconnected consumers having										
4	arrears more than 10 lacs										
5	Dues from permantently disconnected consumers having arrears less than 10 lacs										
6	Miscellaneious receipts from Govt.		1			1			1		
7	Less provision for doubtful dues from Govt.										
8	Total (1+2+3+4+5+6-7)										
9	Details of litigation/disputes having dues more than Rs.10 lacs										
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'										
	Note: Formats should be separately provided for Government and Local Bodies										

NOTE: This format should be filled for Previous Two Years, Current Year and each year of the Control Period for the MYT Filing

1	FY 2021-22 (May to April)	Age-wise Analysis (Months)

S.No.	Particulars	Arrears at the beginning of the year(May 21 Opening Balance)	the year(May 21 to April 22 current	Realised during the year(May 21 to April 22 collection)	end of year(April	Percentage increase (+) Decrease (-)	Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years
	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore
1	Sale of power to the Government departments										
a	Fixed Charge	40.20	34.22	29.56	44.86						
b	Demand Charge										
с	Energy Charge	95.40		149.98							
d	FPPCA Charge	6.31	12.60								
e	Sundry Charges	-8.13	-7.16								
f	Meter Rent	0.11	0.36								
g	DPC on energy	35.02	46.60	30.69	50.77						
2.1	Electricity duty	1.77		1.59							
2.2	DPC on Electricity Duty	0.94	0.60	0.24	1.29						
3	Provision of unbilled revenue										
4	Dues from permantently disconnected consumers having arrears more than 10 lacs				0.87						
5	Dues from permantently disconnected consumers having arrears less than 10 lacs										
6	Miscellaneious receipts from Govt.										
7	Less provision for doubtful dues from Govt.										
8	Total (1+2+3+4+5+6-7)										
9	Details of litigation/disputes having dues more than Rs.10 lacs										
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'										
	Note: Formats should be separately provided for Government and Local Bodies										

NOTE: This format should be filled for Previous Two Years, Current Year and each year of the Control Period for the MYT Filing

			FY 2022-23 (May to Oct)				Age-wise Analysis (Months)				
S.No.	Particulars	the year(May 22 Opening	the year(May	during the	end of year(Oct	Percentage increase (+) Decrease (-)	Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years
	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore
1	Sale of power to the Government departments										

			1				I	1
а	Fixed Charge	44.86	-20.39	9.15	14.58			
b	Demand Charge							
с	Energy Charge	88.13	83.49	35.14	133.60			
d	FPPCA Charge	6.05	13.37	4.56	14.59			
e	Sundry Charges	-9.57	0.66	-1.96	-7.14			
f	Meter Rent	0.17	0.17	0.11	0.23			
g	DPC on energy	50.77	11.30	3.88	57.18			
2.1	Electricity duty	2.07	1.36	0.90	2.40			
2.2	DPC on Electricity Duty	1.29	0.35	0.07	1.48			
3	Provision of unbilled revenue							
4	Dues from permantently disconnected consumers having	0.87			1.50			
4	arrears more than 10 lacs	0.87			1.52			
5	Dues from permantently disconnected consumers having							
5	arrears less than 10 lacs							
6	Miscellaneious receipts from Govt.							
7	Less provision for doubtful dues from Govt.							
8	Total (1+2+3+4+5+6-7)							
0								
9	Details of litigation/disputes having dues more than Rs.10 lacs							
10	Steps proposed to be taken to improve collection and to reduce							
10	the revenue arrears'							
	Note: Formats should be separately provided for Government							
	and Local Bodies							
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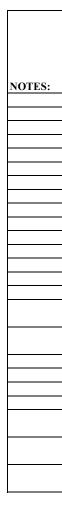
NOTE: This format should be filled for Previous Two Years, Current Year and each year of the Control Period for the MYT Filing

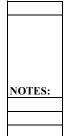
			FY 2023-24 (May to April)			Age-	wise Analysis (M	onths)			
S.No.	Particulars	Arrears at the beginning of the year	Billed during the year	Realised during the year	Arrears at the end of year	Percentage increase (+) Decrease (-)	Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years
	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore	Crore
1	Sale of power to the Government departments										
a b											
с											
2	Electricity duty										
3	Provision of unbilled revenue										
4	Dues from permantently disconnected consumers having arrears more than 10 lacs										
5	Dues from permantently disconnected consumers having arrears less than 10 lacs										
6	Miscellaneious receipts from Govt.										
7	Less provision for doubtful dues from Govt.										
8	Total (1+2+3+4+5+6-7)										

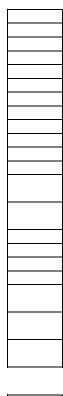
9	Details of litigation/disputes having dues more than Rs.10 lacs						
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'						
	Note: Formats should be separately provided for Government and Local Bodies						

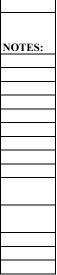
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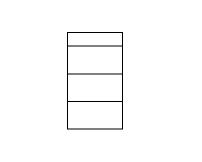








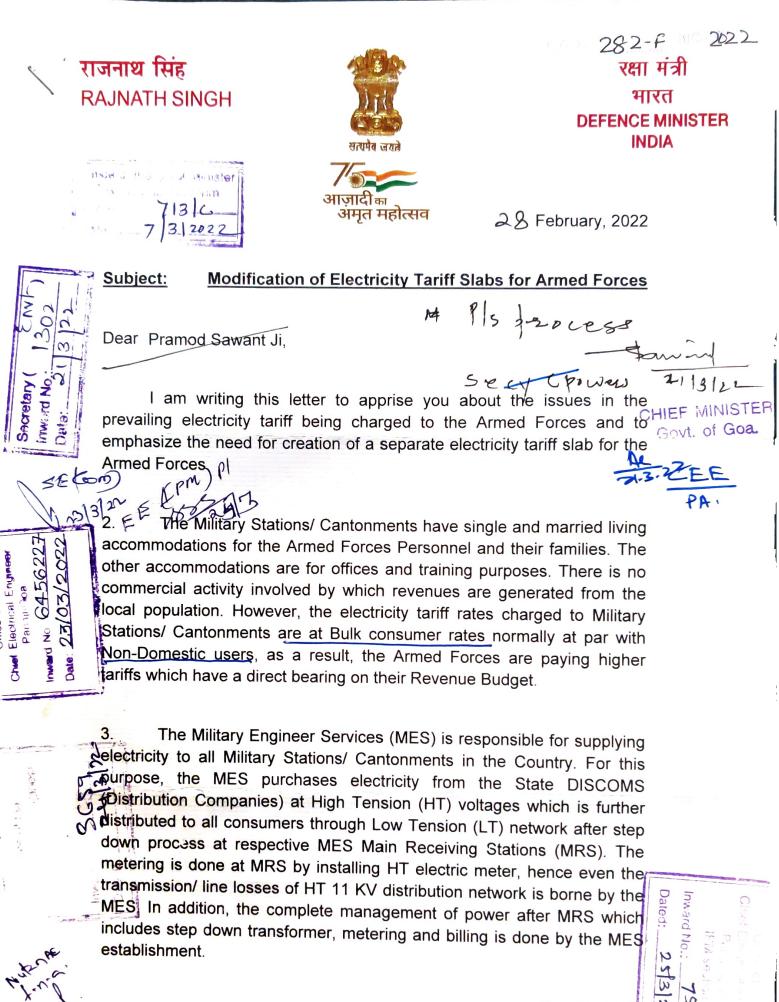




Sr. No.	Category of Consumer	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	Fixed Charge(%)	Energy Charge (%)	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)
		Existing Tariff for I	Existing Tariff for FY 2023-24 P		Proposed Tariff for FY 2023-24		n Proposed xisting Tariff	Difference in Proposed & Exisiting Tariff	
Α	Low Tension Supply	•							
1	Tariff LTD/Domestic and Non-Commercial								
1(a)	0-100 units	20.00	1.60	22.00	1.75	10.00%	9.37%	2.00	0.15
1(b)	101-200 units	20.00	2.35	22.00	2.60	10.00%	10.64%	2.00	0.25
1(c)	201 to 300 units	20.00	2.95	22.00	3.30	10.00%	11.86%	2.00	0.35
1(d)	301 to 400 units	20.00	3.90	22.00	4.40	10.00%	12.82%	2.00	0.50
1(e)	Above 400 units	20.00	4.50	22.00	5.10	10.00%	13.33%	2.00	0.60
2	Tariff LTD/Low Income Group	20.00		22.00		10.00%	10.50%	2.00	NA
3	Tariff-LTC/Commercial								
	0-20 KW/Commercial Consumers								
	1-100 Units	40.00	3.55	45.00	4.00	12.50%	12.68%	5.00	0.45
	101-200 units	40.00	4.35	45.00	4.85	12.50%	11.49%	5.00	0.50
	201-400 Units	40.00	4.85	45.00	5.50	12.50%	13.40%	5.00	0.65
	Above 400 units	40.00	5.25	45.00	6.00	12.50%	14.29%	5.00	0.75
	>20-90Kw Commercial Consumers								
	1-100 Units	60.00	3.55	70.00	4.00	16.67%	12.68%	10.00	0.45
	101-200 units	60.00	4.35	70.00	4.85	16.67%	11.49%	10.00	0.50
	201-400 Units	60.00	4.85	70.00	5.50	16.67%	13.40%	10.00	0.65
	Above 400 units	60.00	5.25	70.00	6.00	16.67%	14.29%	10.00	0.75
4	LTI-Industry								
	0-500 Units	40.00	3.40	41.00	3.50	2.50%	2.94%	1.00	0.10
	Above 500 units	40.00	3.95	41.00	4.05	2.50%	2.53%	1.00	0.10
5	Tariff-LTP/Mixed (Hotel Industries)	50.00	5.25	55.00	5.60	10.00%	6.67%	5.00	0.35
6	LT-Agriculture								
	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	18.00	1.50	20.00	1.60	11.11%	6.67%	2.00	0.10
	Tariff-LTAG/Agriculture Allied (B)	25.00	1.75	27.00	2.00	8.00%	14.29%	2.00	0.25
7	Tariff-LTPL/Public Lighting	70.00	5.65	72.00	5.80	2.86%	2.65%	2.00	0.15
8	Tariff-LT Hoarding and SignBoard	70.00	10.00	77.00	11.00	10.00%	10.00%	7.00	1.00

Sr. No.	Category of Consumer	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	Fixed Charge(%)	Energy Charge (%)	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)
		Existing Tariff for I	Y 2023-24	Proposed Tariff for FY 2023-24		(%) Increase in Proposed Tariff hike to Existing Tariff		Difference in Proposed & Exisiting Tariff	
В	High Tension Supply								
9	Tariff HTD/Domestic	110.00	4.60	125.00	5.30	13.64%	15.22%	15.00	0.70
10	Tariff HT-Commercial	250.00	5.25	285.00	6.00	14.00%	14.29%	35.00	0.75
11	Tariff HTI/Industrial								
	Connected at 11/33 kV	250.00	4.80	255.00	4.90	2.00%	2.08%	5.00	0.10
	Connected at 110 kV	250.00	4.70	255.00	4.80	2.00%	2.13%	5.00	0.10
12	H.T.Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive)	250.00	4.80	255.00	4.90	2.00%	2.00%	5.00	0.10
13	HT-Agriculture								
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	40.00	1.60	42.00	1.70	5.00%	6.25%	2.00	0.10
	Tariff-HTAG/Agriculture (Allied Activities) (B)	70.00	1.95	77.00	2.15	10.00%	10.00%	7.00	0.20
14	H.T. MES/Defence Establishments	200.00	4.90	200.00	4.90	0.00%	0.00%	0.00	0.00

Sr. No.	Category of Consumer	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	Fixed Charge(%)	Energy Charge (%)	Fixed Charge (Rs/kW, Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)
		Existing Tariff for I	Existing Tariff for FY 2023-24 Prop		Proposed Tariff for FY 2023-24		n Proposed xisting Tariff	Difference in Proposed & Exisiting Tariff	
С	Temporary Supply								
15	Tariff-LT/Temporary Domestic								
	0-100 Units	30.00	2.40	33.00	2.63	10.00%	9.37%	3.00	0.23
	101 to 200 Units	30.00	3.53	33.00	3.90	10.00%	10.64%	3.00	0.38
	201 to300 Units	30.00	4.43	33.00	4.95	10.00%	11.86%	3.00	0.52
	301 to 400Units	30.00	5.85	33.00	6.60	10.00%	12.82%	3.00	0.75
	Above400 Units	30.00	6.75	33.00	7.65	10.00%	13.33%	3.00	0.90
16	Tariff-LT/Temporary Commercial								
	0-20 KW/Commercial Consumers								
	0-100 Units	60.00	5.33	67.50	6.00	12.50%	12.68%	7.50	0.68
	101 - 200 Units	60.00	6.53	67.50	7.28	12.50%	11.49%	7.50	0.75
	201 - 400 Units	60.00	7.28	67.50	8.25	12.50%	13.40%	7.50	0.98
	Above 400 Units	60.00	7.88	67.50	9.00	12.50%	14.29%	7.50	1.13
	>20-90Kw and above Commercial Consumers								
	0 - 100 units	90.00	5.33	105.00	6.00	16.67%	12.68%	15.00	0.68
	101 - 200 units	90.00	6.53	105.00	7.28	16.67%	11.49%	15.00	0.75
	201-400 units	90.00	7.28	105.00	8.25	16.67%	13.40%	15.00	0.98
	Above 400 units	90.00	7.88	105.00	9.00	16.67%	14.29%	15.00	1.13
17	Tariff-HTTS/Temporary Supply								
	HT Domestic	165.00	6.90	187.50	7.95	13.64%	15.22%	22.50	1.05
	HT Commercial	375.00	7.88	427.50	9.00	14.00%	14.29%	52.50	1.13
		-	-						
D	Single Point Supply	1							
18	Residential Complexes	110.00	3.55	120.00	3.90	9.09%	9.86%	10.00	0.35
19	Commercial Complexes	220.00	4.80	240.00	5.30	9.09%	10.42%	20.00	0.50
20	Industrial Complexes	220.00	4.40	240.00	4.90	9.09%	11.36%	20.00	0.50
E	Other Categories						<b></b>		
21	Electric Vehicle Charging Station	-	3.50		3.70		5.71%	-	0.20



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Office : Room No. 104, Ministry of Defence, South Block, New Delhi-110011 Tel. : +91 11 23012286, +91 11 23019030, Fax : +91 11 23015403 E-mail : rmo@mod.nic.in 4. It is observed that if the Defence consumers had been occupying accommodation in civil areas, they would have been in the category of Individual Domestic Consumers and accordingly would have been charged at lower tariff rates. Hence, in order to address this anomaly, it is important that a special tariff slab at par or lower than that applicable to domestic consumers be created for the Indian Armed Forces. This will assist the Armed Forces to utilize the Defence Revenue Budget for reinforcing the security related infrastructure of the Country.

5. I would, therefore, request you that necessary instructions may be issued to the State Electricity Regulatory Commissions to consider the aforementioned proposal for creation of a separate tariff slab for the Armed Forces at par or lower than that applicable to the domestic consumers to boost the morale of the Armed Forces Personnel.

Yours sincerely,

Kim Bie.

(Rajnath Singh)

Shri Pramod Sawant, Chief Minister, Goa, Chief Minister Office, House No. 12/182 Khorlim- Mapusa, Panaji-403507



# Manpower Assessment

Electricity department-Goa



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## **1.** INTRODUCTION

## MANPOWER ASSESSMENT FOR ELECTRICITY DEPARTMENT

#### **GOVERNMENT OF GOA**

- As per the instructions of the Honorable Minister for Power, the Chief Electrical Engineer constituted a team to assess the manpower requirement of the Electricity Department. The constitution of the team is as follow:
  - a. Superintending Engineer, Circle I.
  - b. Superintending Engineer, Circle II
  - c. Superintending Engineer, Planning
  - d. Director, Administration.
  - e. Deputy Director, Administration.
- 2. The team had several meetings to finalize the exact manpower requirement for all levels of employees in the Departments. The team finalized certain criteria for finalization of manpower requirements for each post in the Department. Sub Divisional and Divisional Data was obtained from SAP with regards to the criteria's finalized against each post and the post wise manpower requirements were finalized.
- 3. The criteria for finalizing the number of posts in the Department at Sub-Divisional levels are as mentioned below:

Serial No.	Name of the Post	Selection criteria
1	Assistant Engineer (O&M)	1 per subdivision
2	Assistant Engineer (Comm)	1 per subdivision
3	Junior Engineer (O&M)	1 JE (O&M) for 2500 Consumers,
		15 Sq. Km Area and 30 number of
		DTCs.



Manpower Assessment

-	Sorial		Wanpower 783ess
	Serial	Name of the Post	Selection criteria
	No.		
	4	Junior Engineer (HT)	1 JE (HT) for 100 Sq. Km Area, 2
			Nos. 33/11 KV substation, 23 Km
			of 33kV OH feeders and 53 Km of
			11KV feeders
	5	Linemen/Wiremen	3 Nos. per JE (O&M)
	6	Assistant Linemen	5 Nos. per JE (O&M)
	7	Line Helpers.	8 Nos. per JE(O&M)
Ī	8	Station Operators	5 Nos. per substation
Ī	9	Meter readers for each sub-	1 Nos. of meter reader 4200
		division	consumers in Urban Area, 2800
			consumers in Semi-urban and
			2000 consumers in Rural areas.
Ī	10	Head Clerk.	1 per subdivision.
	11	UDC	2 Nos. of UDC per subdivision. (1
			Nos. for O&M and 1 Nos. for
			Commercial).
Ī	12	LDC	4 Nos. of LDC per subdivision for
			O&M.
Ī	13	LDC / ADEO	1 No. of LDC / ADEO per
			subdivision for 4000 consumers
			for commercial works.
Ī	14	Peon	2 Nos. of Peons per subdivision.
L			

4. Similarly, the criteria for finalizing the number of posts in the Department at Divisional levels are as mentioned below:

Serial No.	Name of the Post	Selection criteria
1	Assistant Engineer	3 Nos. of Assistant Engineers (for
		Tech, Billing, HT and Estimate
		respectively.
2	Junior Engineer (Tech)	2 Nos. per division
3	Head Clerk.	1 Nos. per division



Manpower Assessment

 y bepartment d		Wanpower 755e55mene	
Serial No.	Name of the Post	Selection criteria	
4	UDC	4 Nos. per division	
5	LDC	9 Nos. per division	
6	Peon	2 Nos. per division	

5. The requirements of manpower at each sub-division and division were identified based on the above criteria's. The sanctioned strength against each of the post were compared with new requirements and deficiency / additional staff identified. (+ INDICATES ADDITIONAL STAFF AND – INDICATES DEFICIENCY)



## **2.** DIVISION WISE DETAILS

#### 1. Division - I: Panjim

- 1.1 Division I Panaji has their office within the premises of the Head office Panaji, which looks after entire Panaji City Under the guidance of Executive Engineer, Division 1 consists of 4 sub-divisions namely, S.D 1-Corlim, S.D 2-Panaji, S.D 3-Bambolim and S.D 4-Taleigao.
- 1.2 The summary of the detail manpower assessment sub-division and division as given as below: -

Sub-Division office Division-I					
DESIGNATION	Existing	Sanctioned	Actual		
	Strength	Strength	Requirement		
Assistant Engineer (O&M)	4	4	0		
Assistant Engineer (COM)	3	4	-1		
Junior Engineer (TECH)	4	8	-4		
Junior Engineer (O&M)	18	21	-3		
Junior Engineer (HT	4	4	0		
Head Clerk (SD)	4	4	0		
Lineman Wireman	68	85	-17		
Assistant Lineman	109	85	24		
Line Helper	192	192	0		
Upper Division Clerk (SD)	4	4	0		
Lower Division Clerk (O&M	16	16	0		
Asst. Data Entry Operator/ Lower Division Clerk (COM)	16	22	-6		
Station Operator	32	40	-8		
PEON (SD)	2	8	-6		
Meter Reader	63	29	34		

Division - office					
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement		
Executive Engineer	1	1	0		
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	2	4	-2		
Junior Engineer (TECH)	3	2	1		
Head Clerk (D)	1	1	0		
Upper Divisional Clerk (D)	4	4	0		
Lower Divisional Clerk (D)	15	15	0		
PEON (D)	2	2	0		



#### 2. Division -II (Stores) Margao

- 2.1 Division II is the Stores & Workshop of the department which purchases and stores the material for the whole electricity department. Located in Aquem Power House, this division caters with the supply of materials for the department.
- 2.2 The summary of the detail manpower assessment sub-division and division as given as below: -

Sub-Division office Division-II					
DESIGNATION	Existing	Sanctioned	Actual		
	Strength	Strength	Requirement		
Assistant Engineer (TECH)	2	6	-4		
Junior Engineer	2	7	-5		
Head Clerk	1	2	-1		
Upper Division Clerk	2	3	-1		
Lower Division Clerk	6	20	-14		
PEON (D)	0	3	-3		
Divisional Accountant	0	0	0		
Lineman Wireman	7	12	-5		
Assistant Lineman	19	20	-1		
Line Helper	30	45	-15		
Watchman	6	11	-5		
LV Driver	3	5	-2		
HV Driver	1	1	0		
Contact LH	5	0	5		

Division office				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Executive Engineer	1	1	0	
Assistant Engineer	2	2	0	
Accountant	1	1	0	
Head Clerk	1	1	0	
Junior Engineer	4	4	0	
Draftsman	1	1	0	
Junior Stenographer	1	1	0	
Upper Divisional Clerk	1	1	0	
Lower Divisional Clerk	14	14	0	
Peon	2	2	0	
L.V Driver	0	0	0	
Line Helper	1	0	1	



3. DIVISION-III-Ponda

3.1 The division III Curti Ponda works under the Executive Engineer and comprises of construction, station maintenance, EHV Lines maintenance, Shift duty and SLDC.

DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement
Assistant Engineer (O&M)	9	5	4
Assistant Engineer (COM)	0	5	-5
Junior Engineer (O&M)	18	10	8
Junior Engineer (HT)	0	10	-10
Head Clerk (D)	0	1	-1
Lineman Wireman	18	30	-12
Assistant Lineman	22	40	-18
Line Helper	55	50	5
Contract Line Helper	2	0	2
Lower Divisional Clerk (O&M)	0	20	-20
Assistant Data Entry Operator / Lower Divisional Clerk (COM)	0	10	-10
Station Operator	7	25	-18
PEON (SD)	0	10	-10
Meter Reader	0	0	0
Driver	7	20	-13
Watchman		10	-10

Division office				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Executive Engineer	1	1	0	
Assistant Engineer (TECH/HT BILLING/PROCUREMENT/POWER PURCHASE)	5	5	0	
Junior Engineer (TECH)	0	2	-2	
Head Clerk (D)	1	1	0	
Upper Division Clerk (D)	3	3	0	
Lower Division Clerk (D)	7	9	-2	
PEON (D)	0	2	-2	
Divisional Accountant	0	1	-1	



#### 4. Division -IV Margao

4.1 Division IV Margao located in the Aquem power house, works under the supervision of Executive Engineer, it Consist of 4 sub-division which looks after operation, maintenance, and billing.

Sub-Division office Division-IV					
DESIGNATION	DESIGNATION Existing Sanctioned Strength Strength		Actual Requirement		
Assistant Engineer (O&M)	4	4	0		
Assistant Engineer (COM)	3	4	-1		
Junior Engineer (TECH)	0	4	-4		
Junior Engineer (O&M)	15	15	0		
Junior Engineer (HT)	3	4	-1		
Head Clerk (SD)	4	4	0		
Lineman Wireman	61	75	-14		
Assistant Lineman	126	134	-8		
Line Helper	168	229	-61		
Upper Division Clerk (SD)	8	7	1		
Lower Division Clerk (O&M)	36	38	-2		
Assistant Data Entry Operator / Lower Division Clerk (COM)	17	24	-7		
Station Operator	25	31	-6		
PEON (SD)	1	4	-3		
Meter Reader	48	51	-3		
Store Clerk	1	4	-3		
Fitter	1	0	1		
Telephone Operator	4	4	0		
Heavy vehicle driver	1	4	-3		
Lower vehicle driver	19	16	3		

Division office					
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement		
Executive Engineer	1	1	0		
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	2	4	2		
Junior Engineer (TECH)	1	3	2		
Head Clerk (D)	1	1	0		
Upper Division Clerk (D)	3	4	1		
Lower Division Clerk (D)	15	14	-1		
PEON (D)	2	2	0		
Assistant Data Entry Operator	3	2	-1		
Assistant Lineman	1	0	-1		
Line Helper	2	0	-2		



Manpower Assessment

DESIGNATION	Actual Requirement		
Sweeper	1	1	0
Jr Steno	0	1	1



### 5. DIVISION-V Bicholim

5.1 The division V Bicholim consists of 3 sub divisions namely Sub-Div-I Bicholim, Sub-Div- 2 Sanquelim and Sub-Div- 3 Valpoi.

Sub-Division office Division-V					
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement		
Assistant Engineer (O&M)	3	3	0		
Assistant Engineer (COM)	3	3	0		
Junior Engineer (O&M)	18	23	-5		
Junior Engineer (HT)	0	3	-3		
Head Clerk (SD)	2	2	0		
Lineman Wireman	73	77	-4		
Assistant Lineman	118	158	-40		
Line Helper	201	214	-13		
Upper Division Clerk (SD)	6	5	1		
Lower Division Clerk (O&M)	2	20	-18		
Assistant Data Entry Operator / Lower	21	10	11		
Division Clerk (COM)					
Station Operator	17	18	-1		
PEON (SD)	1	3	-2		
Meter Reader	34	34	0		
Heavy Vehicle Driver	1	3	-2		
Light Vehicle Driver	15	12	3		
Contract Line Helper	42	0	42		
Contract Meter Reader	14	0	14		

Division office				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Executive Engineer	1	1	0	
Assistant Engineer (TECH/HT BILLING/ESTIMATES/TENDER/QUOTATIONS/RTI/DDO)	3	3	0	
Junior Engineer (TECH)	2	2	0	
Head Clerk (D)	1	1	0	
Upper Division Clerk (D)	4	4	0	
Lower Division Clerk (D)	12	13	-1	
PEON (D)	1	1	0	
Telephone Operator	1	1	0	
Sweeper	1	1	0	
Store Clerk	1	1	0	
Junior Steno	1	1	0	
ADEO	2	2	0	

#### 6. DIVISION-VI Mapusa



6.1 Division VI Mapusa is in heart of Mapusa city and consists of 4 sub divisions namely sub div-1 Mapusa Urban, Sub Div. 2 Porvorim, Sub Div. 3 Mapusa Rural and Sub Div. 4 Candolim.

Sub-Division office Division-VI				
DESIGNATION	Existing Strengt h	Sanctione d Strength	Actual Requiremen t	
Assistant Engineer (O&M)	4	4	0	
Assistant Engineer (COM)	4	4	0	
Junior Engineer (O&M)	14	23	-9	
Junior Engineer (HT)	0	7	-7	
Head Clerk (SD)	4	4	0	
Lineman Wireman	71	79	-8	
Assistant lineman	95	116	-21	
Line Helper	215	233	-18	
Upper Division Clerk (SD)	11	8	3	
Lower Division Clerk (O&M)	38	42	-4	
Assistant Data Entry Operator / Lower Division Clerk (COM)	11	16	-5	
Station Operator	20	28	-8	
PEON (SD)	2	8	-6	
Meter Reader	39	59	-20	
Telephone Operator	3	4	-1	
Store Clerk	2	4	-2	
HV Driver	1	8	-7	
LV Driver	23	20	3	
Station operator	20	20	0	
Watchman	2	4	-2	

Division office				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Executive Engineer	1	1	0	
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	3	3	0	
Junior Engineer (TECH)	3	2	1	
Head Clerk (D)	1	1	0	
Upper Division Clerk (D)	4	3	1	
Lower Division Clerk (D)	14	9	5	
Assistant Data Entry Operator	1	1	0	
PEON (D)	1	2	-1	
Junior Stenographer	1	1	0	
Line Helper	5	0	5	
Assistant Data Entry Operator	1	1	0	
Telephone Operator	3	1	2	

#### 7. DIVISION-VII Curchorem



7.1 Curchorem division office is supervised by the Executive Engineer and this division consists of four sub divisions namely Sub Div. 1- Curchorem, Sub Div. 2- Quepem, Sub Div. 3- Sanguem and Sub Div. 4- Pontemol. This division have vast forest and hilly area.

Sub-Division office Division-VII				
DESIGNATION	Existing	Sanctioned	Actual	
	Strength	Strength	Requirement	
Assistant Engineer (O&M)	4	4	0	
Assistant Engineer (COM)	1	3	-2	
Junior Engineer (TECH)	0	8	-8	
Junior Engineer (O&M)	21	22	-1	
Junior Engineer (HT)	0	7	-7	
Head Clerk (SD)	2	3	-1	
Lineman Wireman	82	82	0	
Assistant Lineman	121	122	-1	
Line Helper	207	168	39	
Upper Division Clerk (SD)	6	8	-2	
Lower Division Clerk (O&M)	19	22	-3	
Assistant Data Entry Operator / Lower	9	12	-3	
Division Clerk (COM)				
Station Operator	20	25	-5	
PEON (SD)	0	4	-4	
Т.О	2	4	-2	
LV DRIVER	21	8	13	
Store Clerk	1	4	-3	
Watchman	2	4	-2	
Meter Reader	30	31	-1	

Division office				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Executive Engineer	1	1	0	
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	2	4	-2	
Junior Engineer (TECH)	1	2	-1	
Head Clerk (D)	1	1	0	
Upper Division Clerk (D)	4	4	0	
Lower Division Clerk (D)	17	16	1	
PEON (D)	2	3	-1	
Assistant Data Entry Operator / LDC (COM) 1 PER HT	0	0	0	
Junior Stenographer	1	1	0	
HV Driver	3	0	3	
Meter Reader	2	0	2	

#### 8. DIVISION -VIII (MRT).



Manpower Assessment

8.1 Division VIII MRT is in Aquem Power house and works under the supervision of the Executive Engineer. This division caters for the testing of meters before its installation irrespective of its type (single phase, three phase or HT meters) and supplier (department or consumer).

Sub-Division office Division-VIII						
DESIGNATION	<b>Existing Strength</b>	xisting Strength Sanctioned Strength Actual Requir				
Assistant Engineer (Elect)	3	4	-1			
Junior Engineer (Elect)	4	4	0			
Foreman (Elect)	0	4	-4			
Lineman/Wireman	12	11	1			
Lower Division Clerk	1	1	0			
Meter Mechanic	2	15	-13			
Meter Tester	6	18	-12			
Asst. Lineman	10	8	2			
Line Helper	9	28	-19			
Driver L/V	2	3	-1			

Division office					
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement		
Executive Engineer (Elect)	1	1	0		
Asst. Engineer (Elect)	2	4	-2		
Junior Engineer (Elect)	8	6	2		
Divisional Accountant	1	1	0		
Foreman (Elect)	0	1	-1		
Lineman/Wireman	2	7	-5		
Head Clerk	1	1	0		
Upper Division Clerk	2	3	-1		
Lower Division Clerk	8	8	0		
Meter Tester	3	3	0		
Draftman Gr.III	0	1	-1		
Junior Stenographer	1	1	0		
Asst. Lineman	16	18	-2		
Line Helper	5	5	0		
Peon	0	3	-3		
Driver L/V	1	4	-3		
Watchman	0	1	-1		

#### 9. DIVISION -IX Thivim

Sub-Division office Division-IX



Manpower Assessment

DESIGNATION	Existing	Sanctioned	Actual	
	Strength	Strength	Requirement	
Assistant Engineers (O&M)	2	2	0	
Assistant Engineer (Shift)	4	8	-4	
Junior Engineer (TECH)	2	2	0	
Junior Engineer (O&M)	0	2	-2	
Junior Engineer (Shift)	4	8	-4	
Head Clerk (SD)	0	0	0	
Lineman Wireman	20	26	-6	
Assistant Lineman	16	32	-16	
Line Helper	31	40	-9	
Upper Division Clerk (SD)	0	2	-2	
Lower Division Clerk (O&M)	2	2	0	
Assistant Data Entry Operator / Lower	2	2	0	
Division Clerk (COM)				
Station Operator	13	16	-3	
PEON (SD)	1	2	-1	
Meter Reader	0	0	0	

9.1 Thivim division also is headed by Executive Engineer and consists of 3 sub divisions. This division mainly consists and caters for the 220 KV EHV Sub Station at Thivim.

Division office			
DESIGNATION	Existing	Sanctioned	Actual
	Strength	Strength	Requirement
Executive Engineer	1	1	0
Assistant Engineer (TECH/HT	2	3	-1
BILLING/ESTIMATES)			
Junior Engineer (TECH)	1	1	0
Head Clerk (D)	1	1	0
Upper Division Clerk (D)	3	4	-1
Lower Division Clerk (D)	6	6	0
PEON (D)	1	1	0



#### 10. DIVISION -X Ponda

10.1 Ponda division is under the supervision of Executive Engineer and consists of 3 sub

divisions.

Sub-Division office Division-X				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Assistant Engineers (O&M)	3	3	0	
Assistant Engineer (COM)	3	3	0	
Junior Engineer (O&M)	12	16	-4	
Junior Engineer (HT)	0	3	-3	
Head Clerk (SD)	2	3	-1	
Lineman Wireman	77	77	0	
Assistant Lineman	92	134	-42	
Line Helper	155	191	-36	
Upper Division Clerk (SD)	6	6	0	
Lower Division Clerk (O&M) s	6	24	-18	
Assistant Data Entry Operator / Lower Division Clerk (COM)	30	18	12	
Station Operator	28	35	-7	
PEON (SD)	1	6	-5	
Meter Reader	26	28	-2	

Division office			
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement
Executive Engineer	1	1	0
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	3	3	0
Junior Engineer (TECH)	2	2	0
Head Clerk (D)	1	1	0
Upper Division Clerk (D)	1	3	-2
Lower Division Clerk (D)	17	9	8
PEON (D)	1	2	-1
Assistant Data Entry Operator	1	0	1
Telephone Operator	1	0	1
Assistant Lineman	1	0	1
Junior Stenographer	1	1	0



## 11. DIVISION -XI Vasco

11.1 Vasco Division office is situated in the newly constructed Vidyut Bhawan, Vasco. The division is headed by the Executive Engineer and consists of 3 sub divisions namely Sub Div 1 Vasco (U), sub div 2 Vasco (R) and sub div 3 Vasco (M).

Sub-Division office Division-XI				
DESIGNATION	Existing	Sanctioned	Actual	
	Strength	Strength	Requirement	
Assistant Engineers (O&M)	3	3	0	
Assistant Engineer (COM)	3	3	0	
Junior Engineer (TECH)	10	6	7	
Junior Engineer (O&M)	1	11	-10	
Junior Engineer (HT)	3	3	0	
Head Clerk (SD)	3	3	0	
Lineman Wireman	48	55	-7	
Assistant Lineman	88	89	-1	
Lien Helper	180	181	-1	
Upper Division Clerk (SD)	7	6	1	
Lower Division Clerk (O&M)	19	23	-4	
Assistant Data Entry Operator / Lower	7	11	-4	
Division Clerk (COM)				
Station Operator	12	14	-2	
PEON (SD)	1	1	0	
Meter Readers	31	35	-4	

Division office				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Executive Engineer	1	1	0	
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	2	3	-1	
Junior Engineer (TECH)	1	2	-1	
Head Clerk (D) p	1	1	0	
Upper Division Clerk (D)	1	3	-2	
Lower Division Clerk (D)	15	14	1	
PEON (D)	2	3	-1	
Meter Reader	1	0	1	
Assistant Data Entry Operator	6	0	6	
HV Driver	1	2	-1	
Telephone Operator	1	0	1	
Peon	2	2	0	



#### 12. Division-XII Xeldem

12.1 Division XII Xeldem works under leadership of Executive Engineer and mainly looks after sub-station and their corresponding establishment work.

Sub-Division office Division-XII					
DESIGNATION	Existing Strength	Actual Requirement			
Assistant Engineer (O&M)	5	9	-4		
Junior Engineer (O&M)	7	6	1		
Lineman Wireman	15	14	1		
Assistant Lineman	21	23	-2		
Line Helper	20	20	0		
Lower Division Clerk (O&M)	2	2	0		
Station Operator	12	8	4		
PEON (SD)	0	4	-4		
L.V Driver	9	10	-1		

Division office					
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement		
Executive Engineer	1	1	0		
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	1	3	-2		
Junior Engineer (TECH)e	2	2	0		
Head Clerk (D)	1	1	0		
Upper Division Clerk (D)	4	3	1		
Lower Division Clerk (D)	4	9	-5		
PEON (D)	2	2	0		
Junior Stenographer	1	1	0		
L.V Driver	0	1	-1		



#### 13. Division-XIII Kadamba Plateau.

13.1 This division also works under the supervision of Executive Engineer and is situated within the premises of the substation at Kadamba plateau.

Sub-Division office Division-XIII					
DESIGNATION	DESIGNATION Existing Strength Sanctioned Strength				
Assistant Engineer (O&M)	1	1	1		
Junior Engineer (O&M)	1	1	1		
Junior Engineer (Shift)	4	4	5		
Lineman Wireman	10	13	13		
Assistant Lineman	10	14	14		
Line Helper	12	20	20		
Station Operator	4	4	5		
PEON (SD)	0	2	0		

Division office						
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement			
Executive Engineer	1	1	0			
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	3	4	-1			
Junior Engineer (TECH)	1	1	0			
Head Clerk (D)	1	1	0			
Upper Division Clerk (D)	3	3	0			
Lower Division Clerk (D)	4	5	-1			
PEON (D)	1	2	-1			



#### 14. Division-XIV Verna.

14.1 Division XIV is also under the stewardship of Executive Engineer and is located within the premises of substation at Verna. This division consists of 3 sub divisions.

Sub-Division office Division-XIV				
DESIGNATION	Existing	Sanctioned	Actual	
	Strength	Strength	Requirement	
Assistant Engineers (O&M)	2	2	0	
Assistant Engineer (COM)	1	1	0	
Junior Engineer (O&M)	9	8	1	
Junior Engineer (HT)	0	5	-5	
Head Clerk (SD)	1	1	0	
Lineman Wireman	21	27	-6	
Assistant Lineman	52	59	-7	
Line Helper	113	136	-23	
Upper Division Clerk (SD)	2	2	0	
Lower Division Clerk (O&M)	9	8	1	
Assistant Data Entry Operator / LDC (COM)	8	9	-1	
Station Operator	8	10	-2	
PEON (SD) e	6	0	6	
Meter Reader	6	9	-3	
No. of L V driver	4	4	0	
Number of Store Clerk	1	1	0	
Number of T/O	1	2	-1	
Watchman	0	2	-2	
No. of HV Driver	0	0	0	
Sweeper	0	2	-2	

Division office				
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement	
Executive Engineer	1	1	0	
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	1	2	-1	
Junior Engineer (TECH)	1	1	0	
Head Clerk (D)	1	1	0	
Upper Division Clerk (D)	4	4	0	
Lower Division Clerk (D)	9	10	-1	
PEON (D)	0	1	-1	
Junior Stenographers	1	1	0	
Assistant Data Entry Operator	3	3	0	
Telephone Operator	1	1	0	
Sweeper	0	1	-1	



15. Division-XV Civil.

15.1 Division XV is also under the guidance of Executive Engineer and is located within the premises of substation at Patto-Panaji, this division majorly looks after civil work of the department and consists of 2 sub divisions.

Sub-Division office Division-XV					
DESIGNATION	Existing	Existing Sanctioned			
	Strength	Strength	Requirement		
Assistant Engineer (Civil)	3	3	0		
Junior Engineer (Civil)	6	11	-5		
Head Clerk (SD)	0	1	-1		
Lineman Wireman	0	2	-2		
Line Helper	9	6	3		
Upper Division Clerk (SD)	0	1	-1		
Lower Division Clerk	3	2	1		
PEON (SD)	0	1	-1		
Mason	2	6	-4		
Jr. Steno	0	1	-1		
LV Driver	0	4	-4		

Division office					
DESIGNATION	<b>Existing Strength</b>	Sanctioned Strength	Actual Requirement		
Executive Engineer	1	1	0		
Assistant Engineer (Civil)	1	1	0		
Assistant Engineer (Plg.)	1	1	0		
Junior Engineer (Civil)	4	5	-1		
Head Clerk	1	1	0		
Upper Division Clerk	2	2	0		
Junior Stenographer	1	1	0		
Lower Division Clerk	2	4	-2		
Peon	1	1	0		



#### 16. Division-XVI Margao.

16.1 Division XV is also under the guidance of Executive Engineer and is in Aquem-Margao. This division have 4 sub-division sub-division-I Benaulim, sub-division-II Chinchinim, subdiv-III Canacona & sub-division-IV Cuncolim.

Sub-Division office Division-XVI					
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement		
Assistant Engineer (ORNA)	4		-		
Assistant Engineer (O&M)		4	0		
Assistant Engineer (COM)	3	4	-1		
Junior Engineer (TECH)	1	2	-1		
Junior Engineer (O&M)	14	17	-3		
Junior Engineer (HT)	0	4	-4		
Head Clerk (SD)	4	4	0		
Lineman Wireman	72	83	-11		
Assistant Lineman	151	166	-15		
Line Helper	220	238	-18		
Upper Division Clerk (SD)	8	6	2		
Lower Division Clerk (O&M)	5	20	-15		
Assistant Data Entry Operator / Lower	38	21	17		
Division Clerk (COM)					
Station Operator	24	30	-6		
PEON (SD)	1	3	-2		
Meter Reader	40	41	-1		
Store Clerk	2	0	2		
Driver LV	11	14	-3		
Watchman	1	0	1		

Division office			
DESIGNATION	Existing Strengt h	Sanctioned Strength	Actual Requirement
Executive Engineer	1	1	0
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	3	3	0
Junior Engineer (TECH)	3	3	0
Head Clerk (D)	1	1	0
Upper Division Clerk (D)	3	5	-2
Assistant Lineman	3	0	3
Line Helper	9	0	9
Lower Division Clerk (D)	12	13	-1
Assistant Data Entry Operator / Lower Division Clerk	4	5	-1
(COM)			
PEON (D)	1	3	-2
Jr Steno	1	1	0

#### 17. Division-XVII Mapusa



17.1 Division XV is also under the guidance of Executive Engineer and is in Mapusa City. This division have 3 sub-division sub-division-I Pednem, sub-division-II Mapusa, sub-div-III Agarwada

Sub-Division office Division-XVII				
DESIGNATION	Existing Strengt h	Sanctione d Strength	Actual Requiremen t	
Assistant Engineers (O&M)	3	3	0	
Assistant Engineer (COM)	2	3	-1	
Junior Engineer (O&M)	10	16	-6	
Junior Engineer (HT)	2	3	-1	
Junior Engineer (Tech)	2	3	-1	
Head Clerk (SD)	3	3	0	
Lineman Wireman	48	76	-28	
Assistant Lineman	92	132	-40	
Line Helper	195	189	6	
Upper Division Clerk (SD)	6	6	0	
Lower Division Clerk (O&M)	6	24	-18	
Assistant Data Entry Operator / Lower Division Clerk (COM)	12	16	-4	
Station Operator	15	25	-10	
PEON (SD)	0	6	-6	
Meter Reader	26	32	-6	
Driver HV	1	2	-1	
Driver LV	3	9	-6	
Store clerk	1	0	1	
Telephone Operator	1	3	-2	

Division office					
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement		
Executive Engineer	1	1	0		
Assistant Engineer (TECH/HT BILLING/ESTIMATES)	3	3	0		
Junior Engineer (TECH)	2	2	0		
Head Clerk (D)	1	1	0		
Upper Division Clerk (D)	2	3	-1		
Lower Division Clerk (D)	8	9	-1		
PEON (D)	2	2	0		
Jr Steno	1	1	0		



#### 18. Division-XVIII Civil

18.1 Division XVIII is also under the guidance of Executive Engineer. This is division office which looks after corresponding establishment work of Civil section.

Division office-XVII			
DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement
Executive Engineer	1	1	0
Assistant Engineer (Civil)	3	3	0
Head Clerk	1	1	0
Upper Division Clerk	1	1	0
Lower Division Clerk	5	5	0
Line Helper	8	8	0
Telephone Operator	1	1	0
Welder	1	1	0
Peon	1	1	0
Junior Engineer (Civil)	8	8	0



#### 19. <u>SE-Circle-I</u>

19.1 SE I (South) Office is situated in Electricity Department, Power House Aquem Margao-Goa. This office works under supervision of Superintending Engineer SE-I (S) administrates and monitors all the ongoing works which comes under south district of Goa. The Superintending Engineer SE-I (S) is authorised person in the said office.

DESIGNATION	<b>Existing Strength</b>	Sanctioned Strength	Actual Requirement
Superintending Engineer - 1	1	1	0
Executive Engineer	1	1	0
Assistant Engineer (TECH)	3	5	-2
Head Clerk	1	1	0
Upper Division Clerk	2	2	0
Lower Division Clerk	8	8	0
Junior Stenographer	1	1	0
Peon	1	2	-1
Sweeper	2	2	0



#### 20. SE-Circle-II (North)

20.1 SE I (South) Office is situated in Electricity Department, Power House Aquem Margao-Goa. This office works under supervision of Superintending Engineer SE-I (S) administrates and monitors all the ongoing works which comes under south district of Goa. The Superintending Engineer SE-I (S) is authorised person in the said office.

DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement
SE - II (North)	1	1	0
EE	1	1	0
AE (TECH)	4	5	-1
HC	1	1	0
UDC	1	2	-1
LDC	6	10	-4
Jr.Stenographer	1	1	0
Assistant Account Officer	1	1	0
Peon	1	2	-1
Driver	1	1	0



#### 21. Office of The Chief Electrical Engineer

21.1 The Head office is known as Vidyut Bhavan and Office of The Chief Electrical Engineer, Electricity Department of Goa situated in Capital of Goa, Panaji City, this office works on all the administrative related work of all the division pertaining for any approval of major works, recruitment process and all the administrative services required for the department.

Designation	Existing Strength	Sanctioned Strength	Actual Requirement
Chief Electrical Engineer	0	1	-1
Executive Engineer	9	9	0
Superintending Engineer-Planning	1	1	0
Superintending Engineer-Com	1	1	0
Assistant Engineer (TECH)	16	17	-1
Assistant Engineer (CIVIL)	1	1	0
Junior Engineer Tech	8	8	0
Head Clerk	4	4	0
Upper Division Clerk	10	10	0
Lower Divisional Clerk	36	36	0
Jr. Stenographer	5	5	0
Blue Printer	1	1	0
Watchman	1	1	0
Sweeper	1	1	0
LV Driver	1	1	0



Electricity Department-Goa

# **3.** SUMMARY OF MANPOWER IN SUB-DIVISION OFFICE.

DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement
Assistant Engineer (O&M)	34	34	0
Assistant Engineer (COM)	27	33	-6
Assistant Engineer (Civil)	3	3	0
Junior Engineer (TECH)	8	29	-21
Junior Engineer (O&M)	158	191	-33
Junior Engineer (HT)	12	53	-41
Head Clerk (SD)	31	36	-5
Lineman Wireman	703	823	-120
Assistant Lineman	1122	1310	-188
Line Helper	1558	1664	-106
Upper Divisional Clerk (SD)	66	64	2
Lower Division Clerk (O&M)	170	284	-114
Assistant Data Enter Operator/ Lower	180	183	-3
Division Clerk (COM)			
Station Operator	237	309	-72
PEON (SD)	16	62	-46
Meter Reader	343	348	-5
LV Driver	87	94	-7
HV driver	4	17	-13
Telephone Operator	8	11	-3



#### Electricity Department-Goa

# **4.** SUMMARY OF MANPOWER IN DIVISION WISE OFFICE

DESIGNATION	Existing Strength	Sanctioned Strength	Actual Requirement
Chief Electrical Engineer	0	1	-1
Superintending Engineer	4	4	0
Executive Engineer	28	28	0
Assistant Engineer (TECH/HT	41	55	-14
BILLING/ESTIMATES)			
Junior Engineer (TECH)	39	42	-3
Head Clerk (D)	24	24	0
Upper Division Clerk (D)	68	77	-9
Lower Division Clerk (D)	234	236	-2
Assistant Data Entry Operator	20	13	7
PEON (D)	24	39	-15
Divisional Accountant	18	20	-2



# **5.** ISSUES

- The FMS services for Operation and Maintenance of the Department's IT infrastructure and the IT cell formulated for hand holding of various IT activities carried out by the Department are presently outsourced. The Services are expiring in the year 2022. It is proposed to formulate Department's IT cell consisting of 24 Nos. of Junior Engineers. Theses Junior Engineers will be responsible for all activities presently being carried out under FMS and IT cell.
- There are no promotional avenues for the Station Operators located at various substations. It is proposed to create new post of Foremen so that the Station Operators are elevated based the promotional criteria.

#### Note:

The report is prepared by taking into consideration of the Staff maintaining the lines and section offices are distributed for Round the Clock shifts.



REC Limited अगर इ सा रिलॉमेटेड (भारत सरकार का उद्यम) / (A Government of India Enterprise) Regd. Office: Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi - 110003 Corporate Office: REC World Headquarters, Plot No. 1-4, Near IFFCO Chowk Metro Station, Sector-29, Gurugram - 122001 (Haryana) Tel: +91 124 444 1300 | Website: www.recindia.com CIN : L40101DL1969GO1005095 | GST No.: 06AAACR4512R3Z3

REC/RDSS/Goa/GED/2022-23/29

Date: 10<sup>th</sup> October, 2022

The Secretary (Power)

Govt. of Goa, Chamber no. 208, 3<sup>rd</sup> floor, Secretariat Porvorim, Goa-403521

### Sub: Approval of Action plan and DPR of Goa Electricity Department (GED) for the State of Goa under Revamped Distribution Sector Scheme (RDSS).

Sir,

- This is to inform that Monitoring Committee for RDSS constituted under Chairmanship of Secretary (Power), Govt. of India, in its 12<sup>th</sup> meeting held on 29.08.2022, has approved the Action Plan and Loss Reduction DPR of Goa Electricity Department (GED) under Revamped Distribution Sector Scheme (RDSS) as per below mentioned details:
  - a. Results Evaluation Matrix for GED as enclosed at **Annexure-A** along with prequalifying criteria.
  - b. DPR for Prepaid Smart metering works with total Project Cost of Rs. 467.42 Crore with Gross Budgetary Support (GBS) of Rs. 93.46 Crore including incentive for Phase-I as per details in **Annexure-B**.
  - c. DPR for Infrastructure works Loss reduction works with total Project Cost of Rs. 243.43 Crore with GBS of Rs. 146.06 Crore as per details in **Annexure-C**.
  - d. PMA charges of Rs. 1.75 Crore for Prepaid Smart Metering works and Rs. 3.65 Cr for Infrastructure works Loss reduction with GBS of Rs. 1.05 Crore and Rs. 2.19 Crore respectively as per details in **Annexure-D**.

#### 2. Funding Pattern:

a. <u>The funding Pattern for the State of Goa is given below:</u>

Item Description	GBS % (Max)
Prepaid Smart metering solution including a consumer, DT, and feeder level including integration of existing infrastructure	15% of the approved cost of
Distribution Infrastructure works	60% the approved cost of Distribution infrastructure works
PMA Charges for Metering and Infrastructure works	60% of the approved cost of PMA

b. The project cost approved by the Monitoring Committee or actual cost incurred whichever is less, shall be the eligible cost for determining the grant under the scheme for Infrastructure works and PMA Components. Any cost overrun after approval of the

 Regional Offices :
 Bengaluru, Bhopal, Bhubaneswar, Chennai, Dehradun, Guwahati, Hyderabad, Jaipur, Jammu, Kolkata, Lucknow, Mumbai, Panchkula, Patna, Raipur, Ranchi, Shimla, Thiruvananthapuram & Vijaywada

 State Offices
 :
 Vadodara

 Training Centre
 :
 REC Institute of Power Management & Training (RECIPMT), Hyderabad

project (by Monitoring Committee) due to any reason whatsoever shall not be eligible for any grant and shall be borne by the GED/respective State Government.

- c. The release of GBS by Government of India will be subject to prescribed scheme guidelines and would be contingent to award of prepaid smart metering works & its satisfactory progress.
- 3. The terms and conditions of the sanction are as given below:
  - a. GED to ensure implementation of the scheme in accordance with all the prescribed scheme guidelines and SBDs including appointment of PMA through Tendering.
  - b. The sanction is subject to implementation of SOP by GED enclosed as Annexure-E.

#### c. Prepaid Smart Metering works:

- i. Funding under Metering component will be available only to Prepaid smart meters operating in prepayment mode for consumers, and in accordance with the uniform approach indicated by the Central Government, with implementation in OPEX/TOTEX mode.
- ii. GED to submit the plan and timelines for completing Smart Metering works being undertaken through State funding to REC. GED to ensure that MoP timelines for completing Smart Metering (both Consumer and System metering) are adhered to and all consumers in the State/GED area are covered under Smart Metering within these timelines as per scheme guidelines.
- iii. Smart Meters to be installed in prepaid mode only through OPEX/TOTEX arrangement, to avail GoI Grant under the scheme.
- iv. A feeder and DT level automated online energy accounting system shall be put in place.
- v. All feeders are to be metered with communicable & AMI/AMR meters by 31<sup>st</sup> December 2022, and shall be integrated with the National Feeder Monitoring System (NFMS) proposed to be put in place shortly.
- vi. GED to complete 100% DT metering in Phase-I areas by March 2023 and in remaining areas by December 2023 to facilitate energy accounting as per guidelines.
- vii. GED while implementing the prepaid smart metering projects, shall ensure that the remotely readable metering at DT level; Consumer indexing; integration of feeder level data; and the consumer billing database under the AMI contracts are prioritised to be completed latest by March 2023.

#### d. Infrastructure works & PMA Charges:

- i. Agricultural Feeder segregation should be considered on priority under the loss reduction part of DPR.
- ii. All feeders segregated for Agriculture should be solarized under the PM- KUSUM scheme of MNRE or any other similar scheme of State Government.
- iii. PMA charges over and above the permitted amount shall be borne by the GED/ State government.
- iv. Also, services of PMA shall be retained up to completion of the project, without any financial implications beyond that already provided.
- v. Delineation of DPRs of Infrastructure works sanctioned at Department level to District level within 15 days of the issuance of sanction letter.

- vi. GED to carry out feeder level analysis to identify high loss feeders for reduction of losses through appropriate measures proposed in the DPR. The details of such feeders to be included in the DPR. Feeder level analysis should however be completed as early as possible but within three months of sanction.
- vii. GED to ensure that feeder-wise and Sub-station-wise details of loss reduction works are submitted in prescribed formats within 30 days of issuance of sanction letter.

The detailed terms & conditions of sanction letter is enclosed as Annexure-F.

#### 4. Result Evaluation Matrix and pre-qualifying criteria:

a. The AT&C losses and ACS-ARR Gap trajectories approved by Monitoring Committee are as given below:

		Mor	Base	Baseline		Tai	gets		
Parameter	Units Max marks		Year*	values	FY 2022	FY 2023	FY 2024	FY 2025	
ACS-ARR Gap (Cash basis)			FY-21	1.00	0.80	0.60	0.40	0.00	
ACS-ARR Gap (subsidy received basis, excluding regulatory income & UDAY grants)	Rs./ kWh	35	FY-21	0.76	0.48	0.40	0.28	0.00	
*For tracking purpose only		Θ							
AT&C loss	%	25	FY-21	13.00%	12.50%	12.00%	11.00%	10.25%	

- b. GED to mandatorily meet the pre-qualifying criteria and achieve the specified marks in the Evaluation Matrix based on which DPR for Modernisation & System Augmentation shall be sanctioned and grant for both loss reduction works (other than the advance for DPR for Loss Reduction) and for the Modernisation & System Augmentation works will be released.
- c. GED to ensure timely adoption of all suitable measures to meet the prequalifying criteria and to score at least 60% marks on the agreed Result Evaluation Matrix.
- d. If by the end of year 2025-26, the GED is not eligible for release of any grant, the initial advance of 10% of the grant component of the cost of DPR for Loss Reduction will have to be refunded by the GED.

#### 5. Fund Management:

a. As per the direction of the Department of Expenditure, Ministry of Finance, Govt. of India, Letter No. 26(118)/EMC Cell/2016 Dated 24.02.2022; funds will be released to the States/PIAs through Treasury Single Account (TSA) mechanism governed by the RBI w.e.f. 01.04.2022 and no separate Account in any scheduled commercial Bank will be opened and no diversion/parking of funds shall be permissible under the scheme, such that, the funds from GED shall be released through PFMS to its vendors/contractors.

- b. GED shall submit utilization certificates (UC) for the funds released during the financial year in prescribed format latest by 30<sup>th</sup> April of succeeding year in addition to the UC along with every claim.
- c. For release of funds under the Scheme, GED has to ensure updation of baseline data, physical & financial progress, Quality Monitoring, Fund Management, Asset identification through Geo-tagging, outcomes and achievements for evaluation under Result Evaluation Framework, closure, etc on the digital platform to be developed by the Nodal Agencies.
- d. For works other than metering works under Part A, counterpart funding will be provided by the GED/ State Government. If GED takes loan for counterpart funding, such loan will be taken from REC and PFC only. Further, counterpart funding from bilateral/multilateral funding agencies can also be leveraged for which the Government of India would extend benefits of reduced Government Guarantee fee.
- e. In case loan component of the project cost is funded by the NBFCs under MoP, then in order to secure the loan, the existing TPA (Tri-partite Agreement) arrangement among Government of India, the State Government and the RBI shall be suitably amended to provide that the loan servicing payments in case of default can be recovered through RBI.
- 6. A Scheme Implementation Agreement will be signed between the Government of Goa, Goa Electricity Department (GED) and Nodal Agency on behalf of Central Government within 30 days of issuance of sanction letter (enclosed as **Annexure-G**).
- 7. It is requested to kindly acknowledge and accept the sanction letter as per the acceptance letter enclosed as **Annexure-H**.

Yours Sincerely,

(Valli Natarajan) Executive Director

Enclosed: As Above.

Copy to:

- Chief Electrical Engineer, Electricity Department, Govt. of Goa, Vidyut Bhavan, 3<sup>rd</sup> floor, Panaji-403001, Goa
- 2. ED (SOP), REC
- 3. CPM, REC, RO-Mumbai.

#### Annexure-A

S. No	Result Parameter	Units	Maximu m Marks	Base Year	Baseline Values	FY'22	FY'23	FY'24	FY'25
Α	Financial Stability (60% weightage) (for	FY 21-22 659	% weighta	age)					
1a	ACS-ARR Gap (subsidy received basis excluding regulatory income & UDAY grants)	Rs./ kWh	35	FY-21 [FY20]	0.76	0.48	0.40	0.28	0.00
1b	ACS-ARR Gap (Cash basis)	Rs./ kWh	0	FY-21	1.00	0.80	0.60	0.40	0.00
2	AT&C loss	%	25	FY-21 [FY20]	13.00% [15.01% ]		12.00%	11.00%	10.25%
3	Progress in putting Govt. Offices on smart prepaid meters	%	10	FY-21	0%	0%	0%	100%	100%
4	No. of creditor days	Days Payable	5	FY-21 [FY20]	0' [0]	0	0	0	0
5	No. of debtor days	Days receivable	10	FY-21 [FY20]	84 [60]	80	55	40	30
6	Implementation of Automatic Pass through of Fuel Cost Adjustment Charges	Yes/No	15	FY-21	Yes	Yes	Yes	Yes	Yes
	Sub-Total		100		Sec. Sec. 1		Same a	- market and the	and the second
В	Outcomes of Infra works (20% weightage) (for FY 21-22 25% weightage)		12	ыл-51-	0.17	Đả?	0.89	20043	1.0010
1	Hours of supply (Rural)	Avg. Hours/ Day	15	FY-21	23.43	23.43	23.50	23.55	23.60
2	Hours of supply (Urban)	Avg. Hours/ Day	15	FY-21	23.51	23.51	23.55	23.60	23.70
3	Publishing of Energy Accounts as per the BEE guidelines	%	15	FY-21	30%	30%	100%	100%	100%
4	SAIFI (Rural)	Nos/ Year	10	FY 21	422	398	300	180	120
5	SAIFI (Urban)	Nos/ Year	10	FY 21	344	305	250	125	75
6	DT Failure Rate	%	15	FY-21	2.35%	2,25%	2.10%	2.00%	1.95%

#### **Result Evaluation Framework (GED-Goa)**

S. No	Result Parameter	Units	Maximu m Marks	Base Year	Baseline Values	FY'22	FY'23	FY'24	FY'25
7	Data availability in the National Feeder Monitoring System / NPP	%	20	FY-21	50%	50%	100%	100%	100%
	Sub-Total		100					Section and	
С	Infrastructure Works (10% weightage) (for FY 21-22 0% weightage)								
1	Metering				1				
a	Consumer Smart Prepaid Metering [Target: 7,41,160 nos.]	%	15	FY-21	0%	0%	0%	75%	100%
b	Smart DT Metering [Target: 8,369 nos.]	%	15	FY-21	0%	0%	0%	100%	100%
С	Smart Feeder Metering [Target: 827 nos.]	%	20	FY-21	0%	0%	100%	100%	100%
2	33 KV feeders OH & UG cable New/ Replacement [Target: 91.45 Kms]	%	10	FY-21	0%	0%	0%	50%	100%
3	11 KV feeders UG cable New/ Replacement [Target: 24.15 Route KM]	%	15	FY-21	0%	0%	0%	50%	100%
4	LT Lines UG cable New/ Replacement [Target: 252 Route KM]	%	15	FY-21	0%	0%	0%	50%	100%
5	Replacement of Old/Frayed Distribution Transformer along with LV Panel [Target: 309 nos.]	%	10	FY-21	0%	0%	0%	50%	100%
	Sub-Total	5. C.	100	and the second		1.1.1.2.2.1	L. Company		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
D	Policy and Structural Reforms (10% weightage)			id de		1972 (1971)	8.90	8140	1.04
1	Alignment to Rights of Consumer rules 2020 8 Key parameters: 1) Release of Connections 2) Testing of Meters	no. of parameters	25	FY-21	4	4	5	6	8
	<ol> <li>a) Replacement of Meters</li> <li>b) Issuance of no dues Certificates</li> <li>c) Provision for payment of claims on deviation from SoPs</li> <li>c) Assessment of Rooftop Solar Feasibility</li> </ol>								



S. No	Result Parameter	Units	Maximu m Marks	Base Year	Baseline Values	FY'22	FY'23	FY'24	FY'25
	<ul> <li>7) Connection of rooftop solar after installation</li> <li>8) Regulations for ensuring predetermined demand charges for up to 150kW (To Check existing status)</li> </ul>				e e				
2	Existence of minimum 3-Tier Consumer Grievance Redressal Forum	no. of tiers	20	FY-21	2	2	2	3	3
3	Setting up of Energy Management Cell including demand forecasting and scheduling tools	-	20	Yes/No	NA	NA	NA	Creation of Energy Managemen t Cell	n of
4	ERP Implementation	name & nos. of modules	15	FY-21	1 PM	1 PM		5 PM, HR, PS, SD, Finance	5 PM, HR,
5	Tariff Reforms - ToD (for no. of categories)	No. of categories	5	FY-21	8	8	8	10	10
6	% of total consumers covered under upgraded Billing System (with prepaid functionality)	%	5	FY-21	0%	0%	0%	70%	100%
7	Non-Manual Meter Readings: % of total bills generated through non-manual/ automated interventions	%	5	FY-21	0%	0%	0%	50%	100%
8	Digital Payments: % of online transaction w.r.t total transactions	%	5	FY-21	32%	35%	50%	75%	90%
	Sub-Total		100						

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#### **Pre-Qualification Criteria**

The following pre-qualifying criteria must be mandatorily met by the DISCOM before it is evaluated on the basis of the Evaluation Matrix:

(i) DISCOMs would publish quarterly un-audited accounts within 60 days of the end of each quarter during first two years of operation of the scheme (i.e. for FY 2021-22 and FY 2022-23) and thereafter audited quarterly accounts within 45 days from 3rd year onwards.

[FY 2021-22 and FY 2022-23: Un-audited accounts for 1st Quarter ending June to be published by 31st August, for 2nd Quarter ending September by 30th November and so on.

FY 2023-24 and FY 2024-25: Un-audited accounts for 1st Quarter ending June to be published by 15th August, for 2nd Quarter ending September by 15th November and so on.

First evaluation would take place in FY 2022-23 for the performance in FY 2021-22. Accordingly, the un-audited quarterly accounts for FY 2021-22 for all four quarters should have been published as per above mentioned timelines. Further, un-audited accounts for quarter ending June and September of FY 2022-23 should also have been published as per above mentioned timelines.]

(ii) Further, DISCOMs would publish audited annual accounts by end of December of the following year during first two years of operation of the scheme (i.e. for FY 2021-22 and FY 2022-23) and thereafter audited annual accounts by end of September of the following year from 3rd year onwards.

[FY 2021-22 and FY 2022-23: Audited annual accounts to be published by 31<sup>st</sup> December 2022 and 31<sup>st</sup> December 2023 respectively.

FY 2023-24 and FY 2024-25: Audited annual accounts to be published by 30<sup>th</sup> September 2024 and 30<sup>th</sup> September, 2025 respectively.

First evaluation would take place in FY 2022-23 for the performance in FY 2021-22. Accordingly, it would be ensured that the audited annual accounts for FY 2021-22 are published by December 2022.]

(iii) DISCOMs will have ensured that no new Regulatory Assets have been created in latest tariff determination cycle.

[First evaluation would take place in FY 2022-23 and accordingly while evaluating results in this year, tariff order effective from 1<sup>st</sup> April 2022 will be considered and compared with previous tariff order for creation of any new regulatory assets. Similarly, while evaluating results in FY 2023-24, tariff order effective from 1<sup>st</sup> April 2023 will be considered and compared with 2022 order.]

(iv) State Government to ensure 100% payment of subsidy for the previous year and advance payment of subsidy up to current period in line with section 65 of EA2003 and wipe out the remaining subsidy amount by the end of the project period.

[First evaluation would take place in FY 2022-23 and accordingly while evaluating results in this year, 100% payment of subsidy for FY 2021-22 will have to be ensured along with advance payment of subsidy for FY 2022-23 up to date of submission of results to the nodal agency. Further, it would also be ensured (by way of trajectory which would form part of REF, that the remaining subsidy of the previous years, if any, would be wiped out by the end of project period i.e. 2025-26.]

 All Government Departments/ Attached Offices/ Local Bodies/ Autonomous Bodies/ Boards/Corporations have made 100% payment of current electricity dues for the year under evaluation.

[First evaluation would take place in FY 2022-23 for the performance in FY 2021-22 and accordingly

#### **Annexure-B**

#### Smart Metering works under RDSS (GED- Goa)

S. No	Type of Smart meter	Per unit cost of meter	Phase-I (By Dec'23)		Phase (By Marc		Total Meters	Estimated project cost		
		(in Rs.)	Nos	in %	Nos	in %	Heters	(Rs. Cr)		
1	<b>Prepaid Smart Metering</b>	₹ 6,000.00	5,18,812	70%	2,22,348	30%	7,41,160	₹ 444.70		
2	Smart DT Metering	₹ 23,000.00	8,369	100%	0	0%	8,369	₹ 19.25		
3	Smart Feeder Metering (including boundary meters)	₹ 42,000.00	827	100%	0	0%	827	₹ 3.47		
	Total		5,28,008	70.37%	2,22,348	29.63%	7,50,356	₹ 467.42		
Total	GBS excluding incentive for	Phase – I*						₹ 70.11		
Incen	tive for Phase – I**					en nue en en en en en en en en en en en en en		₹ 23.35		
Total	Total GBS including Incentive of Phase - I									
PMA (	MA @ 2.5% of GBS excluding incentive for Phase- I									

\*15% of the approved cost of the metering including the operational cost, provided that it is not more than Rs. 900 per meter for consumer metering only.

\*\*Maximum incentive GBS for deployment of prepaid Smart meters by December, 2023- 7.5% of the cost per consumer meter including operational cost or Rs. 450 per consumer meter, whichever is lower

S. No.	Major Component	Unit	Quantity	Unit Rate	Estimated Cost	
NO.				(Rs.)	(Rs. Crores)	
1	2	3	4	5	$6 = (4 \times 5)$	
A	Replacement of Old/Frayed Distribution Transformer (DTR) along with LV Panel					
1	200 KVA DTR	Nos.	187	10,13,124	18.95	
2	400 KVA DTR	Nos.	88	14,89,119	13.10	
3	630 KVA DTR	Nos.	34	18,30,659	6.22	
	Total				38.27	
в	New Distribution Transformer (DTR) along with LV Panel			Sec.		
1	200 KVA DTR	Nos.	98	9,81,541	9.62	
2	400 KVA DTR	Nos.	32	14,57,645	4.66	
3	630 KVA DTR	Nos.	20	17,99,184	3.60	
	Total				17.88	
С	Reconductoring of Old/ Frayed 33 KV Feeders Conductor					
1	Re-conductoring from existing Conductor to ACSR Wolf Conductor (Double Circuit Line) on 13 Mtr Rail Pole	Kms	91.45	16,01,800	14.65	
D	11 kV Under Ground Cabling works	THE REAL PROPERTY		38 38 39 382	100 A 100 A 100	
1	Additional 11kV Under ground line for load bifurcation, 3Cx300 sq. mm XLPE cable	RKM	24.15	31,35,184	7.57	
2	Conversion of 11kV Overhead network(old/frayed) to UG Cable - 3Cx300 sq. mm XLPE cable	RKM	45	36,35,631	16.36	
	Total				23.93	
E	Conversion of old/frayed LV Overhead line to UG Cable	(ACOR)	180	3'16'548	2.09	
1	LV Underground Conversion from Overhead to 3.5C x 240 sqmm XLPE Cable	RKM	34	32,36,351	11.00	
2	LV Underground Conversion from Overhead to 3.5C x 185 sqmm XLPE Cable	RKM	75.6	32,57,953	24.63	

#### **Details of Infrastructure works under Loss Reduction (GED- Goa)**

S.	Major Component	Unit	Quantity	Unit Rate	Estimated Cost
No.				(Rs.)	(Rs. Crores)
1	2	3	4	5	$6 = (4 \times 5)$
3	LV Underground Conversion from Overhead to 3.5C x 120 sqmm XLPE Cable	RKM	50.4	27,77,575	14.00
4	LV Underground Conversion from Overhead to 3.5C x 95 sqmm XLPE Cable	RKM	92	26,30,901	24.20
5	LV Panel (400KVA) for Proposed LV Line	Nos.	53	4,17,788	2.21
6	LV Panel (200KVA) for Proposed LV Line	Nos.	180	3,16,245	5.69
	Total				81.74
F	RMUs for 11kV UG Cable work				
1	2LBS+1CB Ring Main Unit	Nos.	454	6,20,958	28.19
2	3LBS+1CB Ring Main Unit	Nos.	5	7,47,737	0.37
7	Total	No. In		11.00	28.56
G	IT/OT Works			tales in an other service	
1	ERP Solutions, FMS/OPEX Charges	Nos.	1	38,38,39,285	38.38
	TOTAL Project Cost under Loss Reduction		a diama	S. Andrewson	243.43
	Total GBS @ 60%				146.06
	PMA Charges @ 1.5% of the Project Cost (Loss reduction works)			and the second second second	3.65

#### PMA charges (GED- Goa)

	T	- time -		······································	(In Rs. Crores)
S. No.	Particulars	Total Project Cost	GBS*	PMA Charges**	GBS for PMA Charges***
1	Smart Metering Works	467.42	70.11	1.75	1.05
2	Infrastructure Works – Loss Reduction	243.43	146.06	3.65	2.19
	Total	710.85	216.17	5.40	3.24

\*Excluding incentives in case of Smart Metering works of Phase-I. \*\* 2.5% of GBS for Smart Metering (excluding incentive) and 1.5% of total project cost for Infrastructure works \*\*\* 60% of PMA Charges

#### <u>Standard Operating Procedures(SOPs) for States/DISCOMs to ensure compliance</u> of Pre-qualifying criteria under Revamped Distribution Sector Scheme (RDSS)

#### 1. Introduction

- 1.1. Transformation of the power distribution sector is crucial to the viability and sustainability of the Indian power sector. With the objective of expediting reforms in the power distribution sector, Government of India has launched the Revamped Distribution Sector Scheme (RDSS). This is aimed at improving the financial condition and operational efficiencies of state-owned DISCOMs. It is also recognized that the strict compliance of the pre-qualification criteria of the RDSS is a bed rock for success of the scheme and therefore, it is of utmost importance that all the stakeholders work in tandem to meet the broad objectives of the scheme and adhere to the guidelines/instructions issued as part of the scheme.
- 1.2. RDSS is a result linked evaluation scheme. It is mandatory for DISCOMs to meet the pre-qualifying criteria every year before the funds can be released under the scheme. It is imperative for DISCOMs to follow certain procedures and method to be able to become eligible for the funds under RDSS. It was observed that many of the DISCOMs are not consistent in their approach to adhere to the mainly following PQ criteria:
  - State Government to ensure 100% payment of subsidy for the previous year and advance payment of subsidy up to current period in line with section 65 of EA2003 and wipe out the remaining subsidy amount by the end of the project period.
  - 2) No. of days Payables to Creditors including Gencos for the year under evaluation is equal to or less than the projected trajectory as per results evaluation framework.
  - DISCOMs will have ensured that no new Regulatory Assets have been created in latest tariff determination cycle.

- 4) All Government Departments/ Attached Offices/ Local Bodies/ Autonomous Bodies/ Boards/Corporations have made 100% payment of current electricity dues for the year under evaluation.
- 1.3. In this regard, these Standard Operating Procedures (SOPs) for States/DISCOMs are being issued under RDSS which will help Ministry of Power, Nodal Agencies, State Governments and DISCOMs achieve and monitor the targets set for themselves under the scheme in time bound manner. States and DISCOMs are required to make changes in their policies and procedures to align with the SOPs prepared on the following areas:

PQ criteria	SOP	Relevant Clause
State Government to ensure 100% payment of subsidy for the previous year and advance payment of subsidy up to current period in line with section 65 of EA2003 and wipe out the remaining subsidy amount by the end of the project period	100% timely payment of Subsidy on the basis of correct subsidy accounting mechanism	3.1
No. of days Payables to Creditors including Gencos for the year under evaluation is equal to or less than the projected trajectory as per results evaluation framework.	Linkage of no. of days Payables for power purchase with LPS Rules Automatic pass through of fuel adjustment cost to achieve financial sustainability through	3.2 3.3
	elimination of ACS-ARR gap	
DISCOMs will have ensured that no new Regulatory Assets have been created in latest tariff determination cycle.	No new creation of regulatory assets and treatment of outstanding regulatory assets	3.4
All Government Departments/Attached Offices/ Local Bodies/Autonomous Bodies/ Boards/Corporations have made 100% payment of current electricity dues for the year under evaluation	Mechanism to ensure 100% payment of Government department dues	3.5

#### 2. Salient features

- 2.1. The purpose of these Standard Operating Procedures (SOPs) is to ensure that States/DISCOMs adopt practices that will improve their operational and financial performances so that they achieve full compliance of pre-qualification criteria of RDSS scheme.
- 2.2. The parameters covered under the SOP are based on the major areas of concern for the States/DISCOMs that directly and indirectly impact in achieving the prequalifying conditions of RDSS.
- 2.3. These identified parameters are based on the outcome of regular review and monitoring of States/DISCOMs under RDSS with respect to prequalification compliance and trajectory of targets mentioned in REF.
- 2.4. The framework adopted in this SOP is necessary for true and full compliance of each of the parameters with respect to prequalification of RDSS along with defined responsibilities of relevant stakeholder.
- 2.5. The Standard Operating Procedures (SOPs) sets down the process that shall be followed by all States/UTs for accessing funds under the RDSS or any other scheme of the Ministries of Power and NRE or any loans from PFC and REC.

#### 3. Standard Operating Procedures (SOPs)

#### 3.1. 100% timely payment of Subsidy with correct subsidy accounting mechanism

Comprehensive and accurate subsidy accounting systems are critical for a sustainable power distribution sector. Proper measurement of energy flow to various voltage levels would allow determination of revenue leakages as well as help in proper accounting of subsidies. States/DISCOMs shall follow following steps to enable proper energy and subsidy accounting:

#### 3.1.1 Tariff determination and Subsidy declaration

i. DISCOM(s) to mandatorily file Tariff Petition for the next financial year along with true-up petition of the penultimate year within prescribed timelines so that the Tariff Order is implemented with effect from beginning of the next financial year

- ii. Tariff petitions to mandatorily ask SERC to determine tariff on full cost basis without considering any tariff subsidy from the State Government. If required, the State may issue directions under Section 108 of the Electricity Act to the concerned SERC/JERC to implement such a system w.e.f. FY 2022-23. States, where tariff orders have been issued for the year FY 2022-23 without full cost tariff, shall ensure that revised tariff petition is filed immediately.
- iii. State Government to declare tariff subsidy, as it deems appropriate for each of such consumer categories separately on per unit basis for energy charges and/or per kW basis (only applicable for fixed charges subsidy envisaged, if any)as per Format 1 enclosed in Annexure-I.

#### 3.1.2. Measurement of energy supplied to Subsidized categories

- iv. No electricity connection should be released without metering as per extant law and accordingly assessment of energy supplied to subsidized category of consumers to be computed on measured energy through proper metering only. In case of agriculture category, where consumer level metering has not been adopted, energy may be measured at DT level through proper metering of DTs.
- In case of dedicated agriculture feeder supplying energy to agricultural consumers, energy measured at feeder level through proper metering shall be considered. [The consumption reflected in feeders shall be adjusted for normative T&D losses as determined by SERC for determination of subsidy.]
- vi. For mixed feeder, till such time feeders are segregated, total energy shall be measured at feeder level and energy consumed by non–agricultural consumers shall be deducted to arrive at energy consumption of agricultural

consumers. [The consumption shall be adjusted for normative T&D losses as determined by SERC for determination of subsidy.]

- vii. In no case, shall the assessment of energy on the basis of contracted load, per HP basis, flat tariff, lumpsum or any other such parameter be considered for computing energy supplied to subsidized consumers for assessment of subsidy amount.
- viii. Further, all DISCOMs shall migrate from flat rate billing to energy per unit rate billing for consumers other than agricultural category, within a period of six months from the date of issue of this SOP.

#### 3.1.3. Subsidy billing and collection by DISCOMs

- ix. DISCOMs to assess consumer category-wise tariff subsidy to be provided by the State Government in advance based on the sales forecast and per unit subsidy rates announced by the State Government.
- x. DISCOMs to share the quarterly subsidy disbursal plan with the State Government and intimate the State Government to release the subsidy amount in advance for each quarter.
- xi. State Government to release the assessed subsidy amount in advance to DISCOM(s) for every quarter within the first 15 days of the quarter.
- xii. At the end of every quarter, DISCOM(s) to compute actual subsidy due based on energy supplied to separately for each subsidized category of consumers (assessed on the basis of actual measurements- through energy meters) and per unit subsidy applicable to respective category of consumers as declared by State Governments as per clause 3.1.1 and 3.1.2 and provide accounts to the State Government about the subsidy disbursed and balance with it.
- xiii. Till all the subsidized consumers are metered as per clause 3.1.2.for unmetered flat rate based subsidized consumption, DISCOMs to assess subsidy requirement with the following formula:

Subsidy amount = [(Full cost tariff determined by the SERC/JERC \* measured energy consumption as per clause 3.1.2) – (no. of unmetered flat rate based subsidized consumers \* flat rate tariff)]

- xiv. DISCOM(s) to raise bill of subsidy due to Finance Department of State Government on quarterly basis net of advanced subsidy paid for the quarter with a copy to the concerned SERC/JERC and Nodal Agencies. This exercise shall be complete along with necessary billing and collection details within 60 days of end of the relevant quarter.
- xv. Finance department to ensure the balance payment of reconciled subsidy of the last quarter within 15 days of receipt of the subsidy bill from the DISCOM for the last quarter. The advance subsidy payment of the next quarter shall be paid as per clause3.1.3 (xii) and it shall not be linked with the settlement of the subsidy bill of the previous quarter (refer Format 2ofAnnexure-I).
- xvi. DISCOM(s) to mention both per unit full cost tariff and subsidy provided by the State Government on the consumer bills.
- xvii. On completion of installation of 100% smart prepaid metering as per RDSS timelines, State/DISCOMs may aim to move from quarterly subsidy billing and reconciliation exercise from Quarterly to Monthly basis.
- xviii. An annual reconciliation activity shall be carried out at the end of financial year by the DISCOMs and the State Finance Department for all the claims during the year, which shall be completed within a period of 2 months of the expiry of the relevant financial year.

#### 3.1.4. Reporting related

- xix. DISCOM(s) to submit complete subsidy accounting report as per the process mentioned in the clause 3.1.1, 3.1.2 and 3.1.3 to the respective Nodal Agencies within 60 days of end of each quarter
- xx. DISCOM(s) to report the annual energy audit and periodic energy accounting and communicate the same to the Bureau of Energy efficiency and respective Nodal Agencies.

#### Illustration

Sr. No.	Category	Forecasted Energy Supply (Kwh)	Subsidy Rate (Rs/Kwh)	Subsidy Amount (Rs.)
1	Domestic	3000	2	6000
2	Agriculture	6000	4	24000
3	Small Industries	1000	2	2000
	Total	10000		32000

#### Computation of Advance Subsidy (1<sup>st</sup> Quarter – April to June)

DISCOMs to raise the advance subsidy bill to State finance department by 31<sup>st</sup> of March as per above illustration. State Government to release the advance subsidy by 15<sup>th</sup> of April.

At the end of quarter, DISCOM to raise subsidy bill for the quarter based on actual energy supplied to the subsidized consumers as per following illustration.

Sr. No.	Category	Energy Supplied (Kwh)	Subsidy Rate (Rs,/Kwh)	Subsidy Amount (Rs.)
1	Domestic	2800	2	5600
2	Agriculture	6500	4	26000
3	Small Industries	1000	2	2000
4	Total	10000		33600
5	Advance Received			32000
6	Net Amount of Payable Subsidy (4-5)			1600

Computation of Quarterly Subsidy as per actual energy supplied

DISCOM has to raise the net subsidy bill of Rs1600 to state finance department by 31<sup>st</sup>July. State Government to pay the balance subsidy amount by 15<sup>th</sup> August.

#### 3.2. Linkage of no. of days Payables for power purchase with LPS Rules

Delay in payment to power generating companies by the DISCOMs creates major bottleneck in the entire value chain which leads to situations like fuel shortage, power shortage, working capital challenges and load shedding. RDSS mandates to liquidate all the Genco Over Dues by the DISCOMs and in this regard following SOP to be followed:

- i. Revamped Distribution Sector Scheme (RDSS) has a parameter under the Pre-Qualification criteria to ensure timely payment of dues to the Creditors including Gencos wherein is a trajectory for "No. of days Payables to Creditors including Gencos". With notification of Electricity (Late Payment Surcharge and Related Matters) Rules, 2022, the already finalized trajectories shall automatically get replaced with the ones finalized under Electricity (Late Payment Surcharge and Related Matters) Rules, 2022.
- Nodal Agencies to get these changes reflected in the RDSS Results Evaluation Framework and sign supplementary agreements with the DISCOMs and States accordingly by 15th July 2022.
- iii. States/ DISCOMs whose proposals are yet to be approved under the RDSS shall also align their trajectories in accordance with these rules.
- iv. DISCOMs to make the payment of dues to a generating company or Transmission Company or a trading company as per the Electricity (Late Payment Surcharge and Related Matters) Rules 2022 issued by the Ministry of Power. Report in this regard to be submitted to Nodal Agency on regular basis as per Format 3 of Annexure-I.
- v. DISCOMs to submit updated status of the Genco Dues as per the quarterly accounts (prepared by the DISCOMs as per prescribed formats under RDSS) to the respective Nodal Agencies within 60days of every quarter. This shall be reconciled with the information provided by Gencos on PRAAPTI Portal.

**Note–** The Central Government has notified the Electricity (Late Payment Surcharge and Related Matters) Rules, 2022 on 03rd June 2022. It is applicable to outstanding dues of generating companies, inter-state transmission licensees and electricity trading licensees.

# 3.3. Automatic pass through of fuel adjustment cost to achieve financial sustainability through elimination of ACS-ARR gap

One of the main reasons for financial stress for DISCOMs is the widening ACS-ARR gap. There are multiple reasons which contribute to such a gap. However, States/Regulators/DISCOMs have to work in tandem to bridge this gap and bring it to zero. This is one of the most critical evaluation criteria of RDSS. Amongst other, measures to be adopted by States/DISCOMs for elimination of ACS-ARR gap, following steps need to be taken:

- i. All States/DISCOMs to create a mechanism for automatic pass through of fuel cost adjustment on monthly/quarterly basis in retail tariffs without the need for any prior approval
- ii. All such changes shall be reconciled at the true-up stage by the DISCOMs
- iii. DISCOMs to ensure that the ACS-ARR gap follows a downwards trajectory on quarter-to-quarter basis and it must not increase again after meeting the target set under REF of RDSS

# 3.4. No new creation of regulatory assets and treatment of outstanding regulatory assets

Uncovered revenue gap recognized by the State Regulatory Commission but not considered for tariff determination to avoid revision in retail tariff creates liquidity issues for DISCOMs. Creation of the so-called absolutely undesirable regulatory assets is one of the factors for widening ACS-ARR gap which subsequently impacts the financial sustainability of the DISCOMs. It is paramount to address issues related to regulatory assets to achieve financial viability of DISCOMs and is one of the focus areas of RDSS scheme. In fact, there is no provision for anything like Regulatory Assets in law and therefore creation of any such assets shall not be permissible. In this regard, following SOP to be followed:

- States/DISCOMs to ensure any regulatory assets/uncovered revenue gap created in the past are liquidated in seven years in accordance with the Tariff policy by Ministry of Power dated 28th January 2016
- ii. States/DISCOMs to ensure that no new Regulatory Assets/uncovered revenue gaps are created in future as per the Tariff Policy
- iii. States/DISCOMs, which are part of RDSS, to include liquidation of existing regulatory assets/uncovered revenue gap under financial sustainability category with adequate weightage in the Result Evaluation Framework.
- iv. States/DISCOMs, which are not part of RDSS, to outline a road map for liquidation of regulatory asset and convey to Ministry of Power.
- v. DISCOMs to submit implementation status of liquidation of Regulatory Asset annually to Nodal Agencies and Ministry of Power as per Format 4 in Annexure-I.

#### 3.5. Mechanism for 100% payment of Government department dues

Pending Government department dues which also include dues of Urban and Rural local bodies has become one of the major reasons of the financial distress of the DISCOMs. This forces the DISCOMs to seek incremental working capital loans(beyond what is admissible by SERC's) to manage their cash-flows for meeting their payment obligations and creates a vicious cycle of debt and cash-flow management. RDSS focuses on liquidation of Government department dues in a timely manner. Following SOPs to be followed:

- i. All the Government Departments should be put on pre-paid metering in the first phase of the smart metering program as committed in the REF of RDSS
- ii. DISCOM(s) to ensure that total electricity consumption details are recorded for all Urban Local Bodies (ULBs) and Rural Local Bodies (RLBs) as per the energy meters and periodic electricity bills are raised to respective ULBs and RLBs.
- iii. States/DISCOMs to ensure that a centralized system/mechanism at State/ DISCOM level is established for payment of electricity bills of Government

departments including ULBs & RLBs till the time prepaid meters are installed in all Government departments.

- In case of non-payment within 30 days of bills being raised by the DISCOMs, DISCOMs shall raise the cumulative electricity dues of all ULBs and RLBs to the Finance Department of the State.
- v. Finance Department should make the payment to the DISCOM(s) within 30 days of raising the consolidated bill duly adjusting the same against the devolution of grants to ULBs/RLBs.
- vi. DISCOMs to submit monthly report on number of Government Department put on prepaid, status of dues of Government Departments including ULBs and RLBs to Nodal Agencies and Ministry of Power as per Format 5of Annexure-I.

#### 4. Adoption and review

- 4.1. The SOP as mentioned above shall come into effect from the date of release. All States/DISCOMs shall submit adherence report on above SOPs to Nodal Agencies on periodic basis in the Formats attached in Annexure-I.
- 4.2. The SOP will be reviewed and amended if required, to reflect necessary updates and improvements.
- 4.3. DISCOMs have to ensure implementation of the above SOPs at the earliest to access funds under RDSS.
- 4.4. Nodal agencies shall be responsible for a strict follow-up and compliance of these SOPs.

#### Annexure 1

#### Format 1- Full cost tariff determined by SERC/JERC (Annual submission)

Consumer Category	Full cost tariff determined by SERC/JERC	Subsidy announced by the State Government
	(Rs/kWh)	(Rs/kWh or kW)
(1)	(2)	(3)
Category 1		
Category 2		
Category 3		

#### Format 2 – Subsidy billing and collection(Quarterly submission)

Consumer Category	Per unit Subsidy declared by the State Government	Total Energy Forecasted	Total advance subsidy Amount raised to the State Government	Actual electricity supplied based on measurement through meters*	Actual subsidy required from the State Government	Difference in Advance and Actual subsidy	Reconciled subsidy bill raised to the State Government
	(Rs/kWh)	(MUs)	(Rs. Cr.)	(MUs)	(Rs. Cr.)	(Rs. Cr.)	(Rs. Cr.)
(1)	(2)	(3)	(4) = (2) * (3)	(5)	(6) = (2) * (5)	(7) = (6) - (4)	(8)
Category 1							
Category 2							
Category 3							

\*For unmetered flat rate subsidized consumption -> Subsidy amount = [(Full cost tariff \* measured energy consumption as per clause 3.1.2) - (no. of consumers \* flat tariff)]

# Format 3: Payables for power purchase from GENCOs as per LPS Rules (Monthly submission)

GENCO Dues ->	Accumulated till Previous Month	No. of installments for clearing outstanding dues as per LPS Rules	EMI amount for clearing outstanding dues	Date of last EMI paid	Balance outstanding dues for which EMIs created at the end of Reporting Month	Bill raised by GENCO for Reporting Month	Payment made against bills for Reporting Month	Date of payment for Reporting Month
	Rs. Cr.	No.	Rs. Cr.	Date	Rs. Cr.	Rs. Cr.	Rs. Cr.	Date
GENCO 1								
GENCO 2								
GENCO 3								

#### Format 4: Treatment of Regulatory assets (Annual submission)

Parameter	Unit	Accumulated as on 31 <sup>st</sup> March of the previous financial Year
Outstanding RA/Uncovered Revenue gap	Rs. Cr.	
RA/Uncovered revenue gap liquidated	Rs. Cr.	
Balance RA/Uncovered revenue gap	Rs. Cr.	
RA/Uncovered revenue gap created (if any, however it is not allowed as per the guidelines)	Rs. Cr.	

#### Format 5: Payment of Government department dues (Monthly submission)

Parameter	Unit	Cumulative till Previous Month	Reporting Month <sup>1</sup> <mmm-yy></mmm-yy>
Percentage of prepaid metering in Government departments	%		
Outstanding Government department dues	Rs. Cr.		
Total payment receivedfromGovernment department	Rs. Cr.	<payment against<br="">dues till previous month&gt;</payment>	<payment against<br="">dues of reporting month&gt;</payment>
Outstanding dues of all ULBs and RLBs	Rs. Cr.		
Total Payment received from ULBs and RLBs	Rs. Cr.	<payment against<br="">dues till previous month&gt;</payment>	<payment against<br="">dues of reporting month&gt;</payment>
Bills raised to the Finance Department of the State as mentioned in clause 3.5 (iv)	Rs. Cr.		
Payment received from Finance Department of the State against the bill raised	Rs. Cr.		

<sup>&</sup>lt;sup>1</sup> Reporting Month or Year is the Month or Year for which the information is provided



Name of State	: Goa
Name of the Discom	: Goa Electricity Department

The terms and conditions of financial assistance as set out here under shall be binding on the DISCOM and State Government in accordance with the Scheme Implementation Agreement to be executed amongst REC, State Government & State Discom.

#### A. Project Financing & Fund Management:

1. The funding pattern under the scheme is as given below:

Part	Item Description	GBS % (Max)
Part A	Component I: Prepaid Smart metering solution including at consumer, DT, and feeder level including integration of existing infrastructure.	15% / 22.5% of meter lifecycle cost as the case may be (limited up to Rs.900 or Rs.1350 respectively per meter for Consumer metering only)
	Component II: Distribution Infrastructure works including SCADA, DMS, AB cables, feeder segregation etc.	1 5

- 2. The project cost approved by the Monitoring Committee or actual cost incurred whichever is less, shall be the eligible cost for determining the grant under the scheme for Component II and III of Part A. Any cost overrun after approval of the project (by Monitoring Committee) due to any reason whatsoever shall not be eligible for any grant and shall be borne by the DISCOM/respective State Government.
- 3. Part A: Component I- Metering:
  - 3.1. The operation and maintenance cost of the meter over the life of the meter as per the SBD shall be included in the project cost.
  - 3.2. Prepaid Smart metering for consumers, and System metering at Feeder and Distribution Transformer level with communicating feature along with associated Advanced Metering Infrastructure (AMI) will be done in TOTEX mode through PPP, to facilitate reduction of Distribution losses and enable automatic measurement of energy flows and energy accounting as well as auditing in line with the BEE regulations which will help in identifying high loss packets.
  - 3.3. Funding under Metering component of Part A will be available only if the DISCOM agrees to the operation of smart meters in prepayment mode for consumers, and in accordance with the uniform approach indicated by the Central Government, with implementation in TOTEX mode. Pre-paid smart metering works carried out after 1st January, 2020 will be eligible for funding, if they were carried out in TOTEX mode, after obtaining approval from Monitoring Committee in this regard
  - 3.4. In areas which do not have communication network, installation of prepayment meters, may be taken up.



- 3.5. The financial support for Metering Component under Part A of the scheme shall be as under:
- 3.5.1. <u>Other than Special Category States:</u> 15% of the project cost of the metering works including the operational cost, limited upto Rs. 900 per meter for consumer metering only would be provided as grant by Government of India. Further, an incentive @ 7.5% of the cost per consumer meter worked out for the whole project or Rs. 450 per consumer meter, whichever is lower, would be for prepaid Smart meters installed within the targeted timeline of first phase mission i.e. by December, 2023.
- 3.5.2. <u>Special Category States (All North Eastern States including Sikkim, Himachal Pradesh</u> <u>& Uttarakhand and union Territories of Jammu & Kashmir, Ladakh, Andaman &</u> <u>Nicobar Islands & Lakshadweep</u>): 22.5% of the project cost of the metering works including the operational cost, limited upto Rs. 1350 per meter for consumer metering only would be provided as grant by Government of India. Further, an incentive @ 11.25% of the cost per consumer meter worked out for the whole project or Rs. 675 per consumer meter, whichever is lower, would be for prepaid Smart meters installed within the targeted timeline of first phase mission i.e. by December, 2023.
- 4. <u>Part A: Component II- Distribution Infrastructure works</u>:
  - 4.1. The eligible project cost shall include Central taxes and all fees like forest clearance, highway and railway crossing fee etc. The project cost shall however not include the cost of land, cost of buildings other than sub stations and anti-theft police stations, service lines to new consumers, compensation towards ROW (except forest clearance, highway and railway crossing fee), office equipment & fixtures, spares (other than mandatory spares prescribed by manufacturer), T&P, road cutting charges, vehicles and salaries and establishment expenditure. Further, the project cost shall be reduced to the extent of any Liquidated Damages actually levied, but the encashment of performance security or bid security (EMD) shall not reduce the project cost.
  - 4.2. Feeders having significant agricultural load (30% or more) may be considered for separation under the loss reduction part of DPR and the same should also be proposed for solarization under the PM- KUSUM scheme of MNRE or any other scheme of Government.
  - 4.3. Discom to submit feeder wise analysis of high loss feeders being taken up on priority under loss reduction works, within the 3 months of sanction to Nodal Agency.
  - 4.4. The financial support for Part A: Component II under the scheme shall be as under:
  - 4.4.1. <u>Other than Special Category States:</u>
    - a) 60% of project cost of works other than metering works under Part A and approved cost of PMA would be provided as grant by Government of India.
    - b) 40% of project cost of works and approved cost of PMA shall be arranged through own sources of State Government/ Utility or may avail loan from REC & PFC. funding from bilateral/multilateral funding agencies can also be leveraged for which the Government of India would extend benefits of reduced Government Guarantee fee.



#### 4.4.2. <u>Special Category States ( All North Eastern States including Sikkim, Himachal Pradesh</u> <u>& Uttarakhand and union Territories of Jammu & Kashmir, Ladakh, Andaman &</u> <u>Nicobar Islands & Lakshadweep)</u>

- *a*) 90% of project cost of works and approved cost of PMA would be provided as grant by Government of India.
- b) 10% of project cost of works and PMA works shall be arranged through own sources of State Government/ Utility or may avail loan from REC & PFC. funding from bilateral/multilateral funding agencies can also be leveraged for which the Government of India would extend benefits of reduced Government Guarantee fee.
- 5. <u>Part A: Component III- Project Management:</u>
  - 5.1. 2.5% of the GBS of metering component and 1.5% of project cost of Distribution infrastructure works component, shall be allowed as PMA charges under the Scheme. PMA charges, over and above the permitted amount shall be borne by the respective DISCOM / State government.
  - 5.2. 60% of the PMA charges allowed under the scheme for metering and Distribution infrastructure work components would be provided as grant by Government of India for other than Special Category States. For Special Category States, Government of India grant would be 90% of the allowed PMA charges.
  - 5.3. Services of PMA shall be retained up to physical completion of the project, without any financial implications beyond that already provided

#### 6. <u>Release of grant to Discom by REC:</u>

- 6.1. Release of grant for Metering:
  - a) Grant for metering works, will be due when a meter is successfully installed and commissioned, and essential services and data related to it are provided for a period of one month to the DISCOM. It will be essential that a consumer meter is recharged at least once, for the release of grant pertaining to it to become due.
  - b) The DISCOM may submit claim for release of grant in a phased manner when grant becomes due against 5% of the total meters planned to be installed, or such number of meters or such period that the Nodal Agencies deem practical and convenient. After the first release, subsequent releases shall be subject to submission of utilization certificate of the previous releases.
- 6.2. Release of grant for Distribution Infrastructure works:
- 6.2.1. **Phase I- 10% of the grant for Loss reduction part of Project** (5% on sanction and further 5% on award of works)
  - a) Approval of the project by the Monitoring Committee
  - b) Execution of Scheme Implementation agreement
- 6.2.2. Phase II



## **Cumulative release of 30% of the grant for Loss reduction part of project in FY 2022-23**:

- a) Qualification as per the Results Evaluation Framework of the Action Plan for FY 2021-22.
- b) Submission of a certificate regarding utilization of grant already released in the Format prescribed by Ministry of Finance;
- c) Submission of a certificate regarding receipts and expenditure on the project certified by a Chartered Accountant ;
- d) Submission of physical and financial (grant and counterpart funding) progress report;
- e) Sanction letter for counter-part funding / DISCOM's own resources / State Government funding for Distribution Infrastructure Works.
- f) Award of prepaid Smart Metering works to be covered in the first phase to be completed by December 2023, as per the clause 3.2.2.2 of scheme guidelines.

**30% of the grant for Modernization & System Augmentation part of project in FY 2022-23** (10 % on sanction and 20% on award of works.)

- a) Approval of the project by the Monitoring Committee
- b) Execution of Scheme Implementation agreement
- c) Award of prepaid Smart Metering works to be covered in the first phase to be completed by December 2023, as per the clause 3.2.2.2 of scheme guidelines.

## 6.2.3. Phase III: Cumulative release of 60% of grant component of the project cost of DPRs in FY 2023-24:

- a) Qualification as per the Results Evaluation Framework of the Action Plan for FY 2022-23.
- b) Submission of a certificate regarding utilization of grant already released in the Format prescribed by Ministry of Finance;
- c) Submission of a certificate regarding receipts and expenditure on the project certified by a Chartered Accountant;
- d) Submission of physical and financial (grant and counterpart funding) progress report;
- e) Sanction letter for counter-part funding / DISCOM's own resources / State Government funding for Distribution Infrastructure Works.

## 6.2.4. Phase IV: Cumulative release of 95% of grant component of the project cost of DPRs in FY 2024-25:

- a) Qualification as per the Results Evaluation Framework of the Action Plan for FY 2023-24.
- b) Submission of a certificate regarding utilization of grant already released;
- c) Submission of a certificate regarding receipts and expenditure on the project certified by a Chartered Accountant;
- d) Submission of physical and financial (grant and counterpart funding) progress report;
- e) Sanction letter for counter-part funding / DISCOM's own resources / State Government funding for Distribution Infrastructure Works.



### 6.2.5. Cumulative release of 100% of grant component of the project cost of DPRs in FY 2024-25:

a) Submission of project completion report as per clause 4.9.1 of scheme guidelines.

Discoms shall comply the amendments/supplemental to conditionalities prescribed for release of particular installment, if any, issued by MoP/REC in future.

- 7. If DISCOM achieves the targets as per Action Plan of any previous FY in a subsequent year, then it shall be eligible for release of grant pertaining to that FY.
- 8. All payment (to contractors & others) shall be made directly from the dedicated bank account as per the established procedure through e-banking only <u>(CINB-Corporate Internet Banking)</u>. The nature of the account shall be savings bank account without CLTD (Corporate Liquid Term Deposit) facility or as per the latest policies/guidelines/directives of Nodal agency/ Ministry of Finance directions from time to time in this regard.
- 9. All project related payments to the contractors/agencies by Discom shall be done directly from the dedicated bank account and in no case Discom shall open any other bank account under RDSS. MoP/Nodal Agency shall have the view right of the Discom account
- 10. Any interest earned on grant shall be remitted to Ministry of Power's bank account at least once in a quarter regularly.
- 11. Since grant under the scheme is Central Government money and DISCOMs are only the custodian of this money, income tax is not payable on interest earned on this money. DISCOMs shall take necessary steps to seek exemption from Income Tax Department regarding deduction of Tax at Source by the bank on interest accrued on un-utilized fund under the scheme. However, in case of deduction of TDS by bank, the Utilities shall claim refund of the deducted amount from Income Tax Department directly while filing annual tax return and remit it to Ministry of Power's account.
- 12. The Discom shall ensure that funds released under the scheme are utilized for the purpose for which it is released and will not be diverted for any other purposes whatsoever. In case of any breach or deviation further release of funds shall be stopped.
- 13. The grant release from Nodal Agencies to the DISCOMs shall be done through PFMS and the DISCOMs shall use PFMS for fund flows under the scheme. Grant received under the scheme are to be registered / mapped in PFMS. The DISCOMs shall enter details like receipts, expenditures, etc in Public Fund Management System (PFMS) portal. In case of non-entering desired details in PFMS portal, banks may not consider release of funds to Contractors.
- 14. DISCOM shall submit utilization certificates (UC) for the funds released during the financial year in prescribed format latest by 30th April of succeeding year in addition to the UC along with every claim.



# General Terms and Conditions Applicable for Availing Financial Assistance under Revamped Distribution Sector Scheme

- 15. Prescribed formats for submission of Utilization Certificate, submission of certificate regarding receipts and expenditure on the project certified by Chartered Accountant and for submission of physical and financial progress report shall be circulated by Nodal Agency.
- 16. The DISCOM will ensure audit of the scheme accounts relating to receipts of funds from GoI / Nodal agency and expenditure incurred by the DISCOM against such receipts during the financial year by an independent Chartered Accountant and furnish a report to the Nodal agency latest by 30th June of the succeeding year.
- 17. The works and finances would be open to audit by the office of the Comptroller & Auditor General of India (C&AG) as well as Internal Audit Wing, Office of Controller of Accounts, MoP

# 18. Recall of Grant:

- 18.1. If by the end of year 2025-26, a DISCOM is not eligible for release of any grant, the initial advance of 10% of the grant component of the cost of DPR for Loss Reduction will have to be refunded by the DISCOM.
- 18.2. The Monitoring Committee is empowered to recall the grant released to the DISCOMs at any stage of the scheme, in case the sanctioned works are left incomplete, or the assets could not be put to use, or funds are utilized for purposes other than those prescribed in the scheme/ as approved by the Monitoring Committee in accordance with the prescribed guidelines.
- 18.3. Any unrecovered/due amounts from earlier schemes of Ministry of Power, GOI shall also be allowed to be adjusted against releases in the current scheme.
- 19. In case loan component of the project cost is funded by the NBFCs under MoP, then in order to secure the loan, the existing TPA (Tri-partite Agreement) arrangement among Government of India, the State Government and the RBI shall be suitably amended to provide that the loan servicing payments in case of default can be recovered through RBI.

#### **B. Project Implementation by Discom:**

- 20. Mode of Implementation:
  - 20.1. **Metering**: These projects shall be implemented in TOTEX mode (Total expenditure includes both capital and operational expenditure) with the following options:
    - a) Installation and commissioning of meters and cost recoveries in equated monthly instalments by PPP or implementation partner (or service provider) with no upfront payment by DISCOM
    - b) Some initial payment shall be made to the service provider upon installation and commissioning of the meters, with the rest of the payments made on equated monthly / quarterly instalments over the operational period.
  - 20.2. **Distribution infrastructure works:** The projects shall be implemented normally on turnkey basis. However, certain works may be taken up on partial turnkey basis or departmentally with the approval of DRC and consent of Nodal Agency, subject to, overall guidance of the Monitoring Committee.



# General Terms and Conditions Applicable for Availing Financial Assistance under Revamped Distribution Sector Scheme

- 21. The scheme shall be implemented in accordance with the Ministry of Power's Office Memorandum No. 20/9/2019-IPDS dated 20<sup>th</sup> July, 2021, Scheme Implementation Agreement and operational guidelines issued including amendments/supplemental if any.
- 22. Discom to follow Standard bidding Document (SBD) as issued by Nodal Agencies for selection of AMI service provider, for Distribution infrastructure works, SCADA and PMA.
- 23. The DISCOMs may make minor changes in the SBD, while retaining its basic structure and essence, provided that the approval of the Nodal Agency is taken for the changes, subject to, overall guidance the Monitoring Committee
- 24. Prepaid smart Metering projects taken up by DISCOMs through MOU route with CPSUs or their JVs and Subsidiaries shall also be permitted subject to their being implemented in TOTEX mode as per proposed model circulated by Ministry of Power vide letter No. 14/07/2021- UR&S-II-(E-260509) dated 19.01.2022.
- 25. Keeping in view the aims and objectives of Atma Nirbhar Bharat Abhiyan, Ministry of Power has issued Public Procurement (Preference to Make in India) for Purchase Preference (linked with local content) Order in respect of Power Sector on 28.7.2020. This order is in line with the DPIIT Notification No. P-45021/2/2017-PP(BE-II) dated 4th June,2020. This order along-with amendments, if any, from time to time, shall be followed by the DISCOMs in the implementation of the scheme. However, in case a DISCOM is availing funds through multi-lateral financial institutions, applicable DEA directives may be followed.
- 26. Discom may appoint one or more PMA for project management. Existing PMA of DDUGJY or Saubhagya or IPDS or PMDP or any other Central/State Govt scheme of power sector may be used for preparation of DPR and Action Plan, and the expenses incurred will be eligible under the scheme. For all other works including bid process, monitoring of implementation, project completion, result evaluation and related works, a new PMA will have to be appointed as per the SBD as circulated by the Nodal agency. DISCOMs desirous of appointing CPSUs or their JVs and subsidiaries as PMA on nomination shall be required to obtain a specific approval from the Ministry of Power through concerned Nodal Agency. Any such proposal would be sent by the DISCOM along with the imperative need along with a detailed justification.
- 27. The sunset date for the scheme will be 31.03.2026, the works executed beyond which will not be eligible for release of Central Government grant.
- 28. Discom to ensure updation of MIS web portal to be developed by the Nodal Agencies for submission of Action Plan & DPRs, capturing baseline data, physical & financial progress, quality reports, outcomes and achievements for evaluation under Result Evaluation Framework, closure, etc.

# C. Result Evaluation Framework:

- 29. Discom to meet the pre-qualifying criteria and achieve the specified marks in the Evaluation Matrix based on which DPR for Modernisation & System Augmentation shall be sanctioned and grant for both loss reduction works (other than the advance for DPR for Loss Reduction) and for the Modernisation & System Augmentation works will be released.
- 30. For qualifying in the Evaluation Matrix, a DISCOM needs to score a minimum of 60 marks.

# **D. Monitoring & Evaluation**

31. This scheme would be reviewed by the District Electricity Committees, to be notified by the State Government in compliance to the notification of Government of India dated 16th Sept, 2021.



# General Terms and Conditions Applicable for Availing Financial Assistance under Revamped Distribution Sector Scheme

- 32. The DISCOM shall be responsible & accountable for assuring quality in the scheme works. Accordingly, DISCOM shall formulate a comprehensive Quality Assurance (QA) and Inspection Plan with an objective to build quality infrastructure under the project. The QA and Inspection Plan shall be an integral Part of the contract agreement with turnkey contractor or equipment supplier/vendor and erection agency as the case may be in case of partial turnkey and departmental execution of works. Documentation with regard to Quality Assurance & Inspection Plan shall be maintained by DISCOM and kept in proper order for scrutiny during the course of project execution and for future reference. The DISCOM has to ensure that the quality of material/equipment supplied at site and field execution of works under the project is in accordance with Quality Assurance & Inspection Plan. DISCOM may use the MQP (Manufacturing Quality Plan) and FQP (Field Quality Plan) used in DDUGJY and IPDS schemes by suitably modifying as per requirement of this scheme.
- 33. In addition to the in-house quality checks and processes followed by the DISCOM, the nodal agency (REC/PFC) shall carry out concurrent inspection of works through Third Party Quality Monitoring Agency (TPQMA).

# **D** Interpretation

The decision of Chairman & Managing Director of REC Ltd. in all matters including interpretation of any clause relating to the Operational Guidelines, Sanction letter and Scheme Implementation Agreement shall be final and binding on the Borrower.

# Annexure-G

# [This MoA is to be executed on Non-Judicial Stamp Paper of Rs 200/-] IMPLEMENTATION AGREEMENT AMONGST \_\_\_\_\_ Limited, the Nodal Agency onbehalf of Ministry of Power, Government of India AND State Power Department

#### For Implementation of Revamped Distribution Sector Scheme

#### **BY AND AMONGST**

Limited, A Government of India Undertaking, having its Registered Office at (hereinafter referred to as "**Nodal Agency**" or "\_\_\_\_") part on behalf of Ministry of Power, Government of India, which expression shall unless it be repugnant to the subject or context thereof, include its successors and assigns, of the **FIRST PART**;

#### AND

State Power Department of ......(hereinafter referred to as "**Power Department**") which expression shall unless it be repugnant to the subject or context thereof, include its successors and assigns, of the **SECOND PART** 

The Nodal Agency and the State Government are hereinafter also referred tocollectively as the "**Parties**" and individually as the "**Party**".

WHEREAS the Government of India has launched **Revamped Distribution Sector Scheme** (hereinafter referred to as "**RDSS**") as a Central Sector Scheme to improve the operational efficiencies and financial sustainability, by providing financial assistance to POWER DEPARTMENTs for strengthening of supply infrastructure. The POWER DEPARTMENT can take up projects relating to installation of prepaid smart meters for all consumers along with associated AMI, communicable meters for DTs & Feeders to enable automated Energy Audit and Accounting, SCADA, DMS & RT-DAS, Enterprise Resource planning (ERP) and other ICT initiatives, and Distribution infrastructure works as required for strengthening and modernizing the system as well as measures for loss reduction with the end objective of reducing losses and ensuring 24 x 7 power supply, Public Charging Infrastructure for Electric Vehicles (EVs), Disaster Resilient Infrastructure works (hereinafter referred to as the "**Project**") on the terms & conditions contained in the **Order No. F. No. 20/9/2019-IPDS dated 20.07.2021 issued by Ministry of Power and RDSS guidelines and any amendments thereto issued by the nodal agency.** 

NOW IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO as follows:

- This Agreement signed between (a) \_\_\_\_\_ Limited, the Nodal Agency on behalf of Ministry of Power, Government of India and (b) State Government for implementation of Revamped Distribution Sector Scheme shall be implemented by the Power Department in letter and spirit. Government of India will monitor implementation of the precedent conditions agreed to upon in this Agreement before releasing funds through Nodal Agency.
- 2. This Agreement shall be read in accordance with the provisions of Order No. F. No. 20/9/2019-IPDS dated 20.07.2021 issued by Ministry of Power and RDSS guidelines and any amendments thereto issued by the nodal agency. The said RDSS Guidelines shall form an integral part of this agreement as Annexure 'A' as if fully set forth hereunder and all the terms and conditions set out in the said Revamped Distribution Sector Scheme Guidelines shall be binding on the Parties hereto.
- 3. The parties have agreed that the individual project(s), as proposed by POWER DEPARTMENT and sanctioned by the Monitoring Committee (MC) /nodal agency, under Revamped Distribution Sector Scheme (RDSS), commencing from the financial year 2021-22 shall be deemed to have been covered under this agreement. The terms and conditions of sanction by the MC/nodal agency for a particular project, as contained in the sanction letter (including the supplementals, modifications if any) issued by the nodal agency, shall also form part and parcel of this agreement.
- 4. POWER DEPARTMENT has to formulate, plan, design, develop and implement the projects in accordance with the Standard Bidding Documents for various components as circulated by Nodal agencies and in line with the Central Vigilance Commission (CVC) guidelines. Also, guidelines, SBD's, specifications and construction standards shall be adopted wherever applicable.
- 5. POWER DEPARTMENT agrees that in the event the projects are not implemented satisfactorily in line with the sanction terms and conditions, left incomplete or the assets could not be put to use, or funds are utilized for purposes other than those prescribed in the scheme/ as approved by the Monitoring Committee in accordance with the prescribed guidelines then Monitoring Committee is empowered to recall the grant released to the POWER DEPARTMENTs at any stage of the scheme.
- POWER DEPARTMENT agrees that performance in the Reforms Based Results Linked Revamped Distribution scheme would also form integral part of the financing norms of PFC, REC, Banks/FIs and MDBs for any project in the Distribution Sector even beyond those related to funding under this scheme.
- 7. POWER DEPARTMENT agrees that if due to adverse performance in the Reforms Based Results Linked Revamped Distribution scheme, funds does not get released then any advance amount released shall be refunded to the Government of India.

# 8. PROJECT FINANCING

#### i) For Smart Metering works:

The financial support under the scheme shall be as under:

- a) 15% of sanction cost limited up to Rs.900 per meter for Consumer metering would be provided as grant by Government of India (22.5% for special category limited to Rs.1350)
- b) The implementation of the metering scheme is proposed through PPP on TOTEX mode. State Government/POWER DEPARTMENT may also provide budgetary support in TOTEX mode.
- c) An incentive of 7.5% (11.25% for special category) of the cost per consumer meter worked out for the whole project or Rs. 450 per consumer meter (Rs.675 for special category), whichever is lower, would be provided for prepaid Smart meters installed within the targeted timeline of first phase mission i.e. by December, 2023. The decision of Monitoring Committee shall be final while calculating Additional grant applicable to any project under the Scheme.
- d) The consumer meters shall mandatorily be prepaid meters to be eligible for availing grant under the scheme.
- e) Power Departments shall ensure Feeder/DT metering in accordance with the requirements of the scheme/ directions of MOP

#### ii) For Distribution Infrastructure works:

- a) The sanction of DPR for Modernisation & System Augmentation and release of grant for both loss reduction works (other than the advance) and for the Modernisation & System Augmentation works will be based on the POWER DEPARTMENT meeting the pre-qualifying criteria and achieving the specified marks in the Evaluation Matrix. Also, Monitoring Committee will issue sanctions of loss reduction works contingent to sanctions of metering works being already in place; or, Smart metering works being already implemented by the POWER DEPARTMENTs in line with the SBD for Smart prepaid metering in TOTEX mode; or together, as the case may be.
- b) The financial support under the scheme shall be as under:
  - The grant shall be restricted to 60% (90% for special category) of sanction cost or award cost or executed cost (excluding State & local taxes) whichever is lower (this lowered cost herein after shall be referred to as 'Sanction cost'). The state & local taxes are not admissible under RDSS and to be borne by the State Government/Power Department
  - ✤ 40% (10% for special category) of sanction cost shall be either loan from Financial Institutions (REC/PFC or MDBs) or own funds of State Government. REC/PFC shall consider offering loans at competitive interest rates for the RDSS scheme.
- iii) Cost overruns beyond sanction cost, if any, and PMA charges beyond allowed GOI grant shall be borne by the State Government/Power Department.
- iv) To be eligible for grant, State Government/Power Department has to follow the SBD circulated by the nodal agency or obtain specific approval of Nodal agency for deviations.
- v) State Government to arrange for contribution in case POWER DEPARTMENT fails to arrange the same;

- vi) State Government to furnish guarantee for the loan component under the scheme in case the POWER DEPARTMENT is not able to provide any other mode of security.
- vii) Directives of Ministry of Power in this regard if any, would be followed.

#### 9. Funds

- i) The release of the fund shall be as per the clause 5.2 of the operational guidelines of RDSS. The terms & conditions of release of funds for a particular project as contained in operational guidelines issued, shall also form part of the present agreement. The guidelines shall include supplementals and modifications issued, if any. The releases will be subject to the deductions as agreed amongst Nodal Agencies and Power Department as per RDSS guidelines or statutory requirements.
- ii) Power Department commits to refund grant component released to Utility in case of noncompliance of RDSS guidelines/ this agreement or poor progress resulting to shortclosure/ cancellation.
- iii) MoP/ Monitoring Committee is empowered to recall the grant released to the POWER DEPARTMENTs at any stage of the scheme, in case the sanctioned works are left incomplete or the assets could not be put to use or funds are utilized for purposes other than those prescribed in the scheme/ as approved by the Monitoring Committee in accordance with the prescribed guidelines. Further, if by the end of year 2025-26, a POWER DEPARTMENT is unable to get any fund released due to adverse performance, the initial advance of 10% will have to be refunded by the POWER DEPARTMENT. Any unrecovered/due amounts from earlier schemes of Ministry of Power, GOI shall also be allowed to be adjusted against releases in the current scheme till 2025-26.
- iv) In order to secure the loan of NBFCs under MoP, the existing TPA (Tri-partite Agreement) arrangement among Government of India, the State Government and the RBI shall be suitably amended to provide that the loan servicing payments in case of default can be recovered through RBI.
- v) POWER DEPARTMENTs shall maintain books of accounts both for receipt of funds from Nodal Agency and release to contractors for each of the project.
- vi) POWER DEPARTMENT shall ensure that fund shall not be invested in any other bank/branch, whether for short term or medium term, including fixed deposits.

#### 10. Opening of Bank Account

- i) As per the direction of the Department of Expenditure, Ministry of Finance, Govt. of India, Letter No. 26(118)/EMC Cell/2016 Dated 24.02.2022; funds will be released to the States/PIAs through Treasury Single Account (TSA) mechanism governed by the RBI w.e.f. 01.04.2022 and no separate Account in any scheduled commercial Bank will be opened and no diversion/parking of funds shall be permissible under the scheme, such that, the funds from DISCOMs shall be released through PFMS to its vendors/contractors.
- ii) Thus, Power Department is required to open a Treasury Single Account (TSA) with the RBI as sub-Agency through REC Limited designated as Central Nodal Agency (CAN) for the Scheme and the same shall require to map under PFMS Portal as well.

iii) Power Department shall also have to register digital signatures of all the Authorized Signatories as declared in the TSA Form at First & Second Level both and all the future payment to its contractors shall be released through PFMS Portal only.

#### **11. Distribution Reforms Committee**

i) State Government shall setup a Distribution Reforms Committee (DRC), headed by the Chief Secretary, Secretary in charge of the Energy/Power Department of the State as the convener and consisting of Secretary (Finance), Secretary (Land Revenue) and Secretary (Forest and Environment) as its members. The roles and responsibilities of Distribution Reforms Committee (DRC) are mentioned in clause 7.4 of the operational guidelines of RDSS.

# 12. DISTRICT ELECTRICITY COMMITTEE (DEC):

- i) State Government shall also setup a District Electricity Committee (DEC) as per the Ministry of Power letter no. 42/17/2011-RE [206787] dated 26.09.2021. The Committee shall meet periodically at District headquarters at least once in 3 months to review and coordinate overall development of power supply infrastructure in the district in accordance with the schemes of Government.
- ii) State Government shall also facilitate participation of Public Representatives in the inauguration events etc.

#### 13. PROJECT MANAGEMENT

- i) Project Management Agency (PMA) shall be appointed by Power Department to assist them in project management to ensure timely implementation of the project. PMA charges, restricted to 2.5% of the GBS of component I - metering and 1.5% of project cost of component II - Distribution infrastructure works, shall be sanctioned as a separate component of the scheme. PMA charges, over and above the permitted amount shall be borne by the respective POWER DEPARTMENT.
- ii) State Government shall ensure Reforms support in the form of consultancy for Power Departments and payments thereof.
- iii) Power Department shall ensure establishment of a dedicated project implementation cell at district level and a centralized cell at Head office level.

# 14. CONSTRUCTION / IMPLEMENTATION

- Power Department shall make all possible efforts to complete the project(s) within the approved time frame starting from the date of award of project. State Government to provide required land for substations and facilitate in obtaining other statutory clearances (ROW, forest etc.);
- ii) Power Department to ensure following Public Procurement (Preference to Make in India) for Purchase Preference (linked with local content) Order in respect of Power Sector dated 28.7.2020 or its latest amendments thereof. DEA directives to be followed in case funds are availed through multi-lateral financial institutions.
- iii) Power Department shall suitably incorporate the provisions towards levy of Liquidated Damages in their agreements with contractors for delay in completion of the project(s) and also other relevant contractual provisions pertaining to the procurement of goods and

works. Out of the amount recovered towards Liquidated Damages, if any, by State Government/Power Department under this provision, the amount proportionate to subsidy shall be remitted to MoP account.

- iv) During implementation of projects, Power Department shall be solely responsible & accountable for assuring quality in RDSS works. State Government/Power Department shall formulate a comprehensive Quality Assurance (QA) and Inspection Plan with an objective to build Quality Infrastructure under RDSS works. The QA and Inspection Plan shall be an integral Part of the contract agreement with turnkey contractor or equipment supplier/vendor and erection agency as the case may be in case of partial turnkey and departmental execution of works.
- v) Power Department shall also ensure that the quality of material/equipment supplied at site and field execution of works under the project is in accordance with Quality Assurance & Inspection Plan.
- vi) Power Department to ensure submission of updated monthly physical and financial progress of the project to the Nodal Agency including its updation on the web portal.
- vii) State Government/Power Department shall ensure submission of geotagged photographs of the assets created under the scheme and same shall be uploaded in the portal while submitting the progress and claims. The detailed methodology shall be provided by the Nodal agency.
- viii) Power Department shall ensure that there is no duplication / overlapping of works with any other Government of India and State scheme.
- ix) Appropriate third party/parties will be appointed by MOP / Nodal Agencies to assess / verify the achievements of POWER DEPARTMENTs with respect to the action plan finalized on periodical basis using the Result Evaluation Framework.
- x) The projects shall be awarded and implemented within the time frame as per guidelines on turn-key basis through e-tendering in accordance with the prescribed Procurement Policy, Standard Bidding Document and Technical Specifications / amendments thereof.
- xi) For metering, Standardization Testing and Quality Certification (STQC) & Cyber security aspects have to be mandatorily included in the contract, while following Government of India's stipulations related to source of procurement.

#### 15. UTILISATION CERTIFICATE

i) Power Department shall submit Utilization Certificate (UC) for the funds released during the Financial year and utilization thereof in prescribed format, latest by 30th April of succeeding year. The UC shall provide the physical progress/achievements also apart from financial utilization. Utilisation Certificate is also mandatory to be submitted for every disbursement. The prescribed format for UC shall be furnished by the Nodal agency.

# **16. ARBITRATION**

i) Any differences or dispute among the parties arising out of or in connection with this project shall be discussed and settled amicably amongst the parties. In the event of non-settlement of the difference or dispute within sixty (60) days, the same shall be referred to the Secretary to the Government of India in the Ministry of Power, as the sole arbitrator whose decision shall be final and binding on the parties to this Agreement.

# **17. FORCE MAJEURE**

i) The parties shall ensure due compliance with the terms of this Agreement. However, no party shall be liable for any claim for any loss or damage whatsoever arising out of failure to carry out the terms of the Agreement to the extent that such a failure is due to force majeure events such as fire, rebellion, mutiny, civil commotion, riot, strike, lock-out, forces of nature, accident, act of God and any other reason beyond the control of concerned party. But any party claiming the benefit of this clause shall satisfy the other party of the existence of such an event and give written notice of 30 days to the other party to this effect. The services covered under this Agreement shall be started as soon as practicable by the parties concerned after such eventuality has come to an end or ceased to exist.

#### **18. IMPLEMENTATION OF THE AGREEMENT**

- i) All discretions to be exercised and directions, approvals, consents and notices to be given and actions to be taken under these presents, unless otherwise expressly provided herein, shall be exercised and given by the signatories to this Agreement or by the Authorized representative(s) that each party may nominate in this behalf and notify in writing to the other party by Registered Post. Any other nomination of Authorized representative(s) and/or changes in designation shall be informed likewise in writing to/by Power Department and REC within one month of signing of the Agreement. Any changes in designations/ registered office address shall be intimated in writing to all concerned parties.
- ii) In case of any inconsistency between the Terms and Conditions of this Agreement and the provisions of RDSS Guidelines, the latter shall prevail.
- iii) Any dispute arising out of this Agreement/interpretation of any clause may be referred to Secretary (Power), Govt. of India whose decision shall be final and binding on all parties.

#### **19. NOTICE**

i) All notices required or referred to under this Agreement, shall be in writing and signed by the respective authorized signatories of the parties mentioned herein above, unless otherwise notified. Each such notice shall be deemed to have been duly given if delivered or served by registered/speed post of Department of Posts to the respective heads on the addresses mentioned in the recital.

#### 20. VALIDITY & TERMINATION

- i) This agreement shall remain valid until all liabilities and obligations of the Power Department pertaining to the RDSS scheme implementation are discharged to the satisfaction of the Nodal Agency/Ministry of Power.
- ii) This agreement shall remain valid unless terminated with consent of all the Parties.

#### 21. JURISDICTION

The competent Courts of Delhi shall have exclusive jurisdiction in all matters relating to or arising out under these presents.

IN WITNESS WHEREOF the parties have executed these presents through their Authorized Representatives at \_\_\_\_\_.

	For Nodal Agency
For Power Department	
OR	
State Agency	
)	

# Acceptance Letter

(From Government of .....)

No.

Dated:

The Chairman & Managing Director, Rural Electrification Corporation Limited, Core 4, Scope Complex, Lodhi Road, New Delhi-110003

(Through CPM, REC Regional Office.....)

Sir,

2. The Government of ...... accepts the above on the terms and condition as set out in your letter No: ...... dated: .....

Yours faithfully,

(Authorized Officer) State Government