

SOUTHERN POWER DISTRIBUTION COMPANY OF A.P LIMITED



Aggregate Revenue Requirement for Distribution Business for Fifth Control Period (FY2024-25 to FY2028-29)

30th November, 2023

**BEFORE THE HONOURABLE ANDHRA PRADESH ELECTRICITY
REGULATORY COMMISSION**

AT ITS OFFICE AT 5th Floor, Singareni Bhavan, Red Hills, Hyderabad - 500 004

FILING NO._____/2023

CASE NO. ____/2023

In the matter of:

Filing of the ARR & Tariff applications for the Distribution business for the 5th Control Period FY 2024-25 to FY 2028-29 under multi-year tariff principles in accordance with the “Andhra Pradesh Electricity Regulatory Commission (Terms And Conditions For Determination Of Tariff For Wheeling And Retail Sale Of Electricity) Regulation NO.4 of 2005”

In the matter of:

SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED

... Applicant

The Applicant respectfully submits as under: -

- 1 This filing is made by the **SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED (APSPDCL)** under Section 61 of the Electricity Act 2003 for determination of the ARR and Tariff for the distribution business for the years FY 2024-25 to FY 2028-29 ('Control Period') following multi-year tariff principles as laid out in Regulation 4 of 2005 of APERC.
- 2 Introduction of Tariff Regulation based on MYT Principles - In November 2005, the Commission issued the Andhra Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity) Regulation, 2005 ("Regulation") specifying the principles and procedures of filing for the Annual Aggregate Revenue Requirement (ARR) and Tariff proposals for the ensuing year and filings for the Control Period (FY 2024-25 to FY 2028-29) under Multi-Year Tariff Principles.
- 3 The essential characteristic of this regulation is to provide incentives on certain performance parameters and provide a degree of regulatory certainty for the Control Period. This incentive based system of regulation is a challenging one especially in the present case where the control period is for a period of five years. The challenges arise due to the difficulty in establishing appropriate targets five years ahead and the tendency to adopt uniform and universal performance norms for the licensees. Though the first, second and third control periods have helped the licensee to align itself to the incentive based

system of regulation, the licensees would request the Hon'ble Commission to exercise suitable caution and recognise the current level of performance of the licensee, before fixing up performance benchmarks. As an example, the licensees which have already achieved significant level of efficiencies say in loss reduction cannot be expected to carry forward the same trend in the fourth control period, with the same loss reduction as the initial state of performance of the licensee. As such, recognising the different socio-economic and geographical conditions of the four distribution licensees, the licensee earnestly submits that there should be sufficient flexibility in deriving different levels of norms. For example, different norms for O&M costs have to be allowed for base values for each Discom considering different consumer mix, assets and employee.

- 4 Licensee had submitted resource plan with Hon'ble Commission as per the Regulation 4 of 2005 on 30th April 2023. Resource plan consists detailed projection of capital expenditure, sales forecast, load forecast, availability projection and voltage wise losses as per resource plan guidelines. As the resource plan was submitted more than 120 days, Licensee had assumed that the projections made by the licensee were deemed acceptable by the Hon'ble Commission as per the Regulation 4 of 2005.
- 5 This petition has been developed as per the provisions of the Regulation 4 of 2005. The Licensee is submitting the following as part of the ARR and tariff filings for the fifth Control Period (FY 2024-25 to FY 2028-29):
 - Allocation statement to segregate expenses and incomes of distribution business
 - ARR and Tariff Proposals ("Wheeling Charges") for the Distribution business of the licensee for the fifth Control Period (FY 2024-25 to FY 2028-29), including
 - (a) Sales forecast, load forecast and Investment Plan
 - (b) Loss reduction trajectory and power procurement plan (as per the resource plan)

Summary of the Filing

1. Resource Plan for the Control Period

As per Clause 9.1 of the Regulation, the Resource Plan for the fourth Control Period was filed before the Hon'ble Commission on dated 30th April 2023. The Resource Plan contains the following:

- Sales Forecast;
- Load Forecast
- Loss Trajectory projections
- Power Procurement Plan; and
- Distribution Plan (Capital Investment Plan)

Sales Forecast

The Licensee has submitted sales forecast for the 5th control period along with resource plan which was filed before the Hon'ble Commission. The consolidated category wise sales

forecast for the SPDCL for the 5th control period is tabulated below Sales projections for 5th Control Period (MUs)

Category	2022-23 (Actuals)	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	CAGR
LT Category								
Domestic	5196.51	5472.02	5762.27	6068.07	6390.25	6729.69	7087.35	5.31%
Commercial & Others	1103.67	1157.22	1213.39	1272.31	1334.12	1398.95	1466.97	4.86%
Industry	601.21	620.93	641.43	662.75	684.92	707.99	731.99	3.33%
Institutional	823.84	894.14	970.72	1054.19	1145.19	1244.43	1352.68	8.62%
Agriculture & Related	6870.98	7214.52	7575.25	7954.01	8351.71	8769.30	9207.76	5.00%
LT Total	14596.21	15358.83	16163.07	17011.33	17906.19	18850.36	19846.75	5.25%
HT Category								
Domestic	15.91	16.71	17.55	18.42	19.34	20.31	21.33	5.00%
Commercial & Others	468.13	492.00	517.16	543.71	571.73	601.32	632.58	5.15%
Industry	6950.12	7354.56	7783.77	8239.33	8722.96	9236.47	9781.80	5.86%
Institutional	1090.31	1151.70	1217.05	1286.68	1360.91	1440.14	1903.91	9.74%
Agriculture & Related	769.49	1533.22	2043.84	2544.79	2564.66	2566.35	2568.13	22.25%
RESCO's	434.60	458.57	483.86	510.55	538.71	568.43	599.78	5.52%
HT Total	9728.57	11006.76	12063.23	13143.48	13778.32	14433.00	15507.53	8.08%
LT + HT	24324.78	26365.59	28226.30	30154.81	31684.51	33283.37	35354.27	6.43%

Loss Trajectory

The licensee has taken various steps to reduce the losses like strengthening of the network infrastructure, addition of network elements, and vigorously undertaking the Energy Audit visit to keep a close tab on the losses.

Based on the loss reduction measures carried out in the state, the licensee projects the loss for the period FY 2024-25 to FY 2028-29.

Voltage Level	FY24	FY25	FY26	FY27	FY28	FY29
33 kV	3.20%	3.19%	3.18%	3.18%	3.17%	3.16%
11 kV	3.31%	3.30%	3.29%	3.29%	3.28%	3.27%
LT	5.08%	5.07%	5.06%	5.04%	5.03%	5.02%

2. Distribution Plan (Capital Investment Plan)

The licensee has prepared a detailed capital investment plan for the Control Period based on a comprehensive analysis of state of the existing network loading conditions and the

expected future loading of the network during each year of the control period based on the projected load growth. Below table gives the proposed capital investment of the licensee for the 5th Control period.

S. No.	Item	FY24	FY25	FY26	FY27	FY28	FY29
	Total Capital Expenditure (Rs. Cr.)	5,877	4,506	5,701	4,079	2,760	3,041

3. O&M expense projection

Clause 6.3 (a) of the Regulation provides the following for projection of the O&M costs: *“The Operation and Maintenance (O&M) costs which include employee-related costs, repair & maintenance costs and administrative & general costs, estimated for the Base Year and the year prior to the Base Year in complete detail, together with the forecast for each year of the Control Period based on the norms proposed by the Distribution Licensee including indexation and other appropriate mechanisms...”*

Licensee has adopted method recommended by commission in 4th Control period MYT order. The methodology adopted by the licensee for projection of O&M expenses for 5th Control period is as below:

a. Repair and Maintenance (R&M) Expenses –

The licensee has considered the average of the actual R&M as a 2.53% of the opening GFA for the past 5 years as a proxy for future projections, impact of pay revision for out-sourced sub-station manning and expenses towards maintenance of smart meters.

b. Employee expenses (EE) and Administrative and General (A&G) expenses

As per MYT order for 4th Control period, commission has recommended all the licensees to project EE and A&G expense based on the norms linked to Number of Substations (SS), line length (Circuit KM), Number of consumers and Number of DTRs. Licensee has adopted the same methodology for projecting the employee expenses and A&G expenses for 5th Control period. Further, provisions towards P&G trust of APSEB origin employees, gratuity of EPF holders and leave encashment were added as per actuarial valuation.

Based on the above methods, O&M projections summary for the Control period and break-up are shown in the table below.

Parameter	Unit	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Employee Cost	Rs. Crs	2,779	2,584	2,673	2,973	3,187	3,392
A&G Cost	Rs. Crs	129	142	156	171	188	206

Parameter	Unit	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
R&M Cost	Rs. Crs	443	583	831	1,079	1,231	1,361
Total O&M Expenses	Rs. Crs	3,351	3,309	3,660	4,222	4,605	4,959

- The proposed methodology factors both inflationary adjustment and addition of new offices/ employees due to load growth.

4. Return on Capital Employed

The licensee has computed the ROCE as provided in the Clause 15 of the Regulation which specifies that the ROCE be computed by multiplying the Regulated Rate Base (RRB) by the Weighted Average Cost of Capital (WACC). The licensee has computed the ROCE as provided in the regulation and is shown in table below.

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Return on Capital Employed	624	803	1,246	1,598	1,937	2,144
Regulatory Rate Base	5,773	8,031	11,411	14,522	17,468	19,318
Additions to GFA	4,422	6,150	6,865	6,001	5,148	3,408
Additions to Consumer Contribution	2,598	1,437	2,068	791	-263	-334
Working Capital	333	317	357	389	409	441
WACC	10.8%	10.0%	10.9%	11.0%	11.1%	11.1%
Cost of Debt %	9.75%	8.67%	9.89%	10.01%	10.12%	10.13%
Return on Equity %	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%

Licensee has considered the cost of debt as the weighted average of the debt rates for the ongoing loans and projected loans.

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Ongoing Loans (Opening balance) (Rs. Cr.) (Excl. Working capital loans)	6,269	7,207	7,312	7,051	6,744	6,343
Debt rate of Ongoing Loans (%)	9.6%	7.9%	9.2%	9.0%	8.9%	8.7%
New Loans (Opening balance) (Rs. Cr.)	0	1,546	3,567	6,257	8,257	9,646
Debt rate of New Loans (%)	10.9%	10.9%	10.9%	10.9%	11.0%	11.0%
Weighted Average of Debt rate (%)	9.75%	8.67%	9.89%	10.01%	10.12%	10.13%

5. Depreciation:

The depreciation every year for the particular asset class has been calculated as per below formula considering the Depreciation rates for respective asset class of asset base and also Fully Depreciated Assets during the control period.

Depreciation for the year = (Opening balance of the gross fixed assets for the year – Fully Depreciated Assets till previous year) * Rate of depreciation

The total depreciation for the year is calculated by adding the yearly depreciation of each asset class. The Depreciation rates as per Ministry of Power guidelines have been assumed to arrive at next 5 years depreciation which is shown below:

Asset Class	Rate of Depreciation
Buildings and Other Civil Works	3.02%
Battery Chargers	33.40%
Material Handling Equipment	7.84%
Meters / Meter Equipment	12.77%
Office Equipment and Air Conditioners	12.77%
Plant & Machinery and Lines, Cables & Network	7.84%
Capacitor Banks	5.27%
Furniture & Fixtures	12.77%
Vehicle – Car / Jeep / Scooter / Motor Cycle/ Lorry / Truck	33.40%
Computers and IT Equipment	12.77%
Intangible assets (Software, Goodwill etc.)	20.00%

The Fully depreciated assets till the year have been deducted from the opening balance of the next year to calculate the depreciation. Depreciation computation after considering the Fully Depreciated Assets (FDA) balances is tabulated below:

Particulars (Rs. Cr.)	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Opening Balance of assets	15,509	19,931	26,081	32,946	38,947	44,095
Asset Additions during the Year	4,422	6,150	6,865	6,001	5,148	3,408
Fully Depreciated assets during the year	410	433	584	1,057	865	561
Depreciation During the Year	819	1,170	1,661	2,186	2,583	2,934

6. Aggregate Revenue Requirement (ARR) for each year of the fifth control period

Following table shows the projected revenue requirement for the distribution licensee during the 5th Control Period.

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
O&M Charges (Net)	3,351	3,309	3,660	4,222	4,605	4,959
Depreciation	819	1,170	1,661	2,186	2,583	2,934
Advance Against Depreciation	0	0	0	0	0	0
Taxes on Income	43	60	85	108	129	143
Other Expenditure	25	25	26	27	28	29
Special Appropriations	0	0	0	0	0	0
Total Expenditure	4,237	4,563	5,432	6,543	7,346	8,065
Less: IDC and expenses capitalized	197	274	366	331	285	173
Less: O&M expenses capitalized	0	0	0	0	0	0

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Net Expenditure	4,040	4,289	5,066	6,212	7,061	7,892
Add Return on Capital Employed	624	803	1,246	1,598	1,937	2,144
Total Distribution ARR	4,664	5,092	6,312	7,810	8,998	10,036
Less: Wheeling Revenue from Third Party/Open Access/NTI (if any)	437	602	811	1,011	1,163	1,266
Revenue Requirement, (Net transferred to Retail Supply Business)	4,227	4,490	5,502	6,800	7,835	8,770

7. Wheeling Charges and Losses

The Licensee is striving to reduce the losses by the implementation of loss reduction measures like strengthening of the network infrastructure, addition of network elements, and vigorously undertaking the Energy Audit visit to keep a close tab on the losses. Hence, the Licensee humbly requests the Hon'ble Commission to approve the loss trajectory as given in the table below.

Voltage Level	FY24	FY25	FY26	FY27	FY28	FY29
33 kV	3.20%	3.19%	3.18%	3.18%	3.17%	3.16%
11 kV	3.31%	3.30%	3.29%	3.29%	3.28%	3.27%
LT	5.08%	5.07%	5.06%	5.04%	5.03%	5.02%

The licensee is proposing the following distribution wheeling charges for each of the control period. The methodology for calculating the wheeling charges is explained in MYT write-up.

Voltage Level	FY25	FY26	FY27	FY28	FY29
33 kV (Rs./kVA/Month)	83.17	119.60	162.45	193.84	214.42
11 kV (Rs./kVA/Month)	964.49	1,098.20	1,268.28	1,367.17	1,431.84
LT (Rs./kVA/Month)	1,262.89	1,477.11	1,740.13	1,911.89	2,041.81

- A consumer drawing energy at the 33 kV level of the Distribution licensee network would have to pay the wheeling charges for 33 kV
- A consumer drawing energy at 11 kV level of the Distribution licensee network would have to pay the wheeling charges of 11 kV
- A consumer drawing energy at LT level of the Distribution licensee network would have to pay the wheeling charges for LT

This filing has been discussed and approved by the Board of Directors of APSPDCL and Sri K.Vijaya Kumar Reddy, Chief General Manager, RAC&IPC has been authorised to execute and file the said document on behalf of APSPDCL. Accordingly, the current filing documents is

signed and verified by, and backed by the affidavit of Sri K.Vijaya Kumar Reddy, Chief General Manager, RAC&IPC.

In the aforesaid facts and circumstances, the Applicant request that this Hon'ble Commission may be pleased to:

- Take the accompanying ARR and Wheeling Tariff application of APSPDCL on record for Distribution Business and treat it as complete;
- Grant suitable opportunity to APSPDCL within a reasonable time frame to file additional material information that may be subsequently available;
- Consider and approve APSPDCL's ARR and Tariff application including all requested regulatory treatments in the filing;
- Pass such order as the Hon'ble Commission may deem fit and proper in the facts and circumstances of the case.

SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED

(APPLICANT)

Through



Chief General Manager/RAC&IPC

Place: Tirupati

Dated: 30th November 2023.

**BEFORE THE HONOURABLE ANDHRA PRADESH ELECTRICITY REGULATORY
COMMISSION
AT ITS OFFICE AT 5 th FLOOR, SINGARENI BHAVAN, RED HILLS, HYDERABAD 500 004**

**FILING NO. ____/2023
CASE NO. ____/2023**

In the matter of:

Filing for the Multi-Year Tariff for the Distribution Business for the Fifth Control Period (FY 2024-25 to FY 2028-29) under Multi-Year Tariff principles in accordance with the “Andhra Pradesh Electricity Regulatory Commission (Terms And Conditions For Determination Of Tariff For Wheeling And Retail Sale Of Electricity) Regulation No.4 of 2005” by the SOUTHERN Power Distribution Company of Andhra Pradesh Limited (‘APSPDCL’ or ‘the Company’ or ‘the Licensee’) as the Distribution and Retail Supply Licensee.

In the matter of:

SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED

... Applicant

**AFFIDAVIT OF APPLICANT VERIFYING THE APPLICATION ACCOMPANYING FILING AS
PER TERMS AND CONDITIONS OF TARIFF FOR WHEELING AND RETAIL SALE OF
ELECTRICITY**

I, K.Vijaya Kumar Reddy, S/o Sri K.Padmanabha Reddy, aged about 59 years working for gain at the SOUTHERN Power Distribution Company of Andhra Pradesh Limited do solemnly affirm and say as follows:

- 1 I am the Chief General Manager/ RAC&IPC of APSPDCL, the Licensee that has, vide the Hon'ble Commission's approval in proceedings No. APERC/Secy/Engg/No.6 dt.31.3.2000, been granted the distribution and retail supply functions that APTransco was authorised to conduct or carry out under the Act and the license, with respect to the business of distribution and retail supply of electricity in the Southern distribution zone in Andhra Pradesh. On December 27, 2000, the Hon'ble Commission has awarded a Distribution and Retail Supply License to APSPDCL, to be effective from April 1, 2001. I am competent and duly authorised by APSPDCL to affirm, swear, execute and file this affidavit in the present proceedings.
- 2 As such, I submit that I have been duly authorised by the Board of Directors of APSPDCL to submit the application, as per Terms and Conditions Of Tariff For Wheeling And Retail Sale of Electricity (Regulation 4 of 2005) of APSPDCL for the Control Period FY 2024-25 to FY 2028-29 to the Honourable Commission.
- 3 I submit that I have read and understood the contents of the appended application of APSPDCL. The facts stated in the application are true to the best of my knowledge, which are derived from the official records made available and certain facts stated are based on information and advice which, I believe to be true and correct.

I submit that for the reasons, and facts stated in the appended application this Applicant pray that the Honourable Commission may be pleased to

- (a) Take the accompanying Distribution MYT ARR and wheeling tariff application of APSPDCL on record and treat it as complete;
- (b) Grant suitable opportunity to APSPDCL within a reasonable time frame to file additional material information that may be subsequently available;
- (c) Consider and approve APSPDCL's Distribution MYT ARR and wheeling tariff application including all requested regulatory treatments in the filing;
- (d) Pass such order as the Honourable Commission may deem fit and proper in the facts and circumstances of the case.

VERIFICATION:

I, the above named Deponent solemnly affirm at Tirupati on this 30th November, 2023 that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.


DEPONENT
CHIEF GENERAL MANAGER
RAC & IPC
APSPDCL :: TIRUPATHI


DEPONENT
CHIEF GENERAL MANAGER
RAC & IPC
APSPDCL :: TIRUPATHI

Solemnly affirmed and signed before me.


COMPANY SECRETARY
APSPDCL :: TIRUPATHI.

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1. Aggregate Revenue Requirement of Distribution Business for 5th Control Period

APERC Regulation 4 of 2005 states that *“Every Distribution Licensee shall file for each of its licensed business an application for approval of its Aggregate Revenue Requirement (ARR) for each year of the Control Period, not less than 120 days before the commencement of the first year of the Control Period. This filing shall be in such form and in such manner as specified and in accordance with the Guidelines issued by the Commission. The Distribution Licensees may file such applications for ARR of the first Control Period within a period not less than 90 days before the commencement of the Control Period. The ARR filing for the Distribution business shall be for the entire Control Period”*

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“The ARR filings shall contain the following

1. The Operation and Maintenance (O&M) costs which include employee-related costs, repair & maintenance costs and administrative & general costs, estimated for the Base Year and the year prior to the Base Year in complete detail, together with the forecast for each year of the Control Period based on the norms proposed by the Distribution Licensee including indexation and other appropriate mechanisms in terms of the principles enunciated in this Regulation for O&M cost allowance.

2. Regulated Rate Base (RRB) for the Base Year and each year of the Control Period which requires submission of the working capital requirement and a detailed scheme/project-wise Capital Investment Plan with a capitalization schedule covering each year of the Control Period consistent with the resource plan submitted to the Hon’ble APERC (with minor modifications).

3. A proposal for appropriate capital structure and its cost of financing (interest cost and return on equity) for the purpose of computing Weighted Average Cost of Capital.

4. Targets proposed for reduction of distribution losses during the Control Period duly adhering to the Licensees’ Standards of Performance Regulation.

5. Details of depreciation, including Advance against depreciation if any required and capitalization schedules for each year of the Control Period.

6. Description of external parameters proposed to be used for indexation;
7. Details of taxes on income;
8. Any other relevant expenditure;
9. Proposals for sharing of gains and losses;
10. Proposals for efficiency parameter targets;
11. Proposals for rewarding efficiency in performance
12. Any other matters considered appropriate”

In accordance with Point no. 2 mentioned above, the Distribution licensee has already filed the Resource Plan with the Hon'ble Commission covering the Sales Forecast, Load Forecast, Power Procurement Plan and Distribution Plan (Capital Investment Plan) consistent with the requirements of the Commission's Guidelines on Load Forecast and Resource Plan. The details of the Resource plan filed with the Hon'ble Commission has been attached in Annexure-A.

1.1 Gross Fixed Assets Projections

1.1.1 Asset additions

The capital investment plan as projected in the Resource plan has been considered for arriving at the Distribution Cost for the next control period. Total capitalization for the Base Year and the Control Period has been projected based on the following assumptions:

- 1) Capitalization of Base Investment and Capital Work-in-Progress (CWIP): Capitalization of assets for MYT period has been considered based on historical actual capitalization trends.
- 2) Capitalization of Expenses
 - a) Interest during Construction (IDC): Interest during Construction (IDC) has been calculated as a weighted average interest cost of previous year average Capital Works-in-Progress for the year.
 - b) Operational and Maintenance (O&M) Expenses: Operational and Maintenance (O&M) Expenses capitalized has been projected at 11% of capital expenditure incurred for the year.

Thus, the licensee has projected capital investment undertaken and its capitalisation for the Base Year and Control Period as given below:

Closing Balance of CWIP = Opening Balance of CWIP + Capital Expenditure during the year + Expenses Capitalized – Investment Capitalized

Table 1: Details of the Capital Works in Progress (CWIP)

Rs. Crs

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Opening Balance of Capital Work in Progress (CWIP)	3,067	5,367	4,492	4,322	3,180	1,380
Capital Expenditure during the year	5,877	4,506	5,701	4,079	2,760	3,041
Expenses Capitalized	647	496	627	449	304	335
Interest During Construction	197	274	366	331	285	173
Total expenses capitalized	844	770	993	779	588	508
Transfer to fixed assets	4,422	6,150	6,865	6,001	5,148	3,408
Closing CWIP	5,367	4,492	4,322	3,180	1,380	1,521

1.2 Depreciation

The depreciation every year for the particular asset class has been calculated as per below formula considering the Depreciation rates for respective asset class of asset base and also Fully Depreciated Assets during the control period.

Depreciation for the year = (Opening balance of the gross fixed assets for the year – Fully Depreciated Assets till previous year) * Rate of depreciation

The total depreciation for the year is calculated by adding the yearly depreciation of each asset class.

During FY 2022-23, **Rs. 815 Cr.** has been incurred towards depreciation (net of additions) which has been detailed below:

Table 2: Depreciation Details

Rs. Crs

Particulars - Rs. Crs.	2022-23 (Actual)
Opening Balance of assets	14,098
Asset Additions during the Year	1,412
Depreciation During the Year	815

The Depreciation rates as per Ministry of Power guidelines have been assumed to arrive at next 5 years depreciation which is shown below:

Table 3: Depreciation Rates' Details

Asset Class	Rate of Depreciation
Buildings and Other Civil Works	3.02%
Battery Chargers	33.40%
Material Handling Equipment	7.84%
Meters / Meter Equipment	12.77%
Office Equipment and Air Conditioners	12.77%
Plant & Machinery and Lines, Cables & Network	7.84%
Capacitor Banks	5.27%
Furniture & Fixtures	12.77%
Vehicle – Car / Jeep / Scooter / Motor Cycle/ Lorry / Truck	33.40%
Computers and IT Equipment	12.77%
Intangible assets (Software, Goodwill etc.)	20.00%

The Fully depreciated assets till the year have been deducted from the opening balance of the next year to calculate the depreciation. Depreciation computation after considering the Fully Depreciated Assets (FDA) balances is tabulated below:

Table 4: Depreciated Assets' Details

Particulars (Rs. Cr.)	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Opening Balance of assets	15,509	19,931	26,081	32,946	38,947	44,095
Asset Additions during the Year	4,422	6,150	6,865	6,001	5,148	3,408
Fully Depreciated assets during the year	410	433	584	1,057	865	561
Depreciation During the Year	819	1,170	1,661	2,186	2,583	2,934

1.3 Consumer Contribution & Grants

The consumer contribution additions and Grants has been estimated based on the past trend and new consumer additions in the next 5 years of the control period.

Below table provides the projections of the Consumer Contribution in 5th Control period.

Table 5: Consumer Contribution Details

Particulars	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Opening Balance	2,373	2,472	2,576	2,686	2,801	2,922
Additions during the year	404	424	445	468	491	516
Deductions during the year	305	320	336	353	370	389
Closing Balance	2,472	2,576	2,686	2,801	2,922	3,049

Below table provides the projections of the Grants in 5th Control period.

Table 6: Grants Details

Particulars	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Opening Balance	0	2,499	3,831	5,790	6,466	6,082
Additions during the year	2,558	1,538	2,348	1,239	305	305
Deductions during the year	59	205	389	563	689	766
Closing Balance	2,499	3,831	5,790	6,466	6,082	5,621

1.4 Working Capital

The licensee has projected the working capital requirement for the year as per below formula:

Working Capital (WC) requirement = 1/12th of the projected gross O&M cost for the year

The year wise projections of the working capital requirement are as follows:

Table 7: Working Capital details

Particulars	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Working Capital	333	317	357	389	409	441

1.5 Regulated Rate Base (RRB)

The Hon'ble Commission has outlined principles for computation of Regulated Rate Base (RRB) in Regulation 4 of 2005.

Calculation of RRB

The honourable commission has proposed a computation methodology (in the excel spreadsheet) for the RRB calculation for the year, which is as follows:

“RRB = (OCFA – AD – CC) + ΔRAB+WC where,

- **OCFA:** Original Cost of Fixed Assets at the beginning of the Year available for use and necessary for the purpose of the licensed business.
- **AD:** Amounts written off or set aside on account of depreciation of fixed assets pertaining to the regulated business at the beginning of the Year.
- **CC:** Total contributions made by the users towards the cost of construction of distribution/service lines by the Licensee and also include the capital grants/subsidies received for this purpose at the beginning of the year.
- **ΔRAB:** Change in the Rate Base in the year. This component would be the average of the value at the beginning and end of the year as the asset creation is spread across a year and is arrived at as follows:

$$\Delta RAB = (Inv - D - CC)/2$$

- Inv: Investments projected to be capitalised during the year of the Control Period and approved.
- D: Amount set aside or written off on account of Depreciation of fixed assets for the year of the Control Period.
- CC: User Contributions pertaining to the ΔRAB and capital grants/subsidies received during year of the Control Period for construction of service lines or creation of fixed assets.

Based on the above computation methodology, RRB has been calculated as shown below table. The Original Cost of Fixed Assets (OCFA), Accumulated Depreciation and Total Consumer Contribution calculated for Base Year and 4th Control period i.e., from 2023-24 to 2028-29 are as follows:

Table 8: Regulated Rate Base Details

Particulars	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Assets	19,931	26,081	32,946	38,947	44,095	47,503
-OCFA Opening Balance	15,509	19,931	26,081	32,946	38,947	44,095
-Additions to OCFA	4,422	6,150	6,865	6,001	5,148	3,408
Acc Depreciation Closing Balance	9,018	10,187	11,849	14,035	16,618	19,552
- Acc Depreciation Opening Balance	8,199	9,018	10,187	11,849	14,035	16,618
- Depreciation for the year	819	1,170	1,661	2,186	2,583	2,934
Con Contributions closing balance	4,971	6,408	8,476	9,267	9,004	8,670
-Con Contributions Opening Balance	2,373	4,971	6,408	8,476	9,267	9,004
-Additions to Cons Contributions	2,598	1,437	2,068	791	-263	-334
Working Capital	333	317	357	389	409	441
Change in Rate Base	502	1,772	1,568	1,512	1,414	404
Regulated Rate Base	5,773	8,031	11,411	14,522	17,468	19,318

1.6 Operation & Maintenance Expense Projections

The Operation & Maintenance (O&M) Expenses consist of the following components:

- a. Employee Expenses (EE) including Salaries, wages and other employee costs;
- b. Administrative & General costs (A&G) including legal charges, audit fees, rent, rates and taxes;
- c. Repairs and Maintenance (R&M) including equipment maintenance, repairs, fault corrections, etc.

Licensee has adopted method recommended by commission in 3rd Control period Distribution true-up order. Below is the methodology adopted by the licensee for projection of O&M expenses for 5th Control period:

a. Repair and Maintenance (R&M) Expenses –

The licensee has considered the average of the actual R&M as a % of the opening GFA for the past 5 years as a proxy for future projections. The methodology used is explained below:

- (1) Average of the R&M expenses as a % of opening balance of Gross Fixed Assets (GFA) has been calculated considering 5 years between FY2018-19 to FY2022-23.
- (2) This average is expected to remain same for all the years in 5th Control period.
- (3) Projections of R&M expenses for 5th Control period has been calculated by multiplying the above average by Gross Fixed Assets of each year.

Below table shows the historical trend of the R&M expenses, opening GFA and the average of the R&M expense as a % of the opening GFA.

Table 9 - R&M expenses and GFA details for FY19, FY 20, FY 21, FY22 and FY23

Rs. Crs

Name of the Parameter	FY19	FY20	FY21	FY22	FY23
R&M expenses	432	444	249	288	332
Opening GFA	13,896	16,123	11,873	12,902	14,098
R&M as % of Opening GFA	3.11%	2.75%	2.10%	2.23%	2.35%
Average R&M as % of Opening GFA	2.53%				

Additional Pay due to outsourced employees:

The wages of outsourcing employees working in sub-stations are included under R&M head and were enhanced with effect from 15.08.23 as per approval vide S.O.O. CGM (HRD) Ms.No.1343, 14.08.2023. Subsequent to this order, the salaries of outsourced employees working in substations is going to increase to the extent of Rs. 4.1667 Cr. per month.

Accordingly the impact of pay revision to outsourced employees towards manning in sub-stations is considered under the R&M head for the 5th Control Period.

Since, the existing R&M expenses as a % of GFA is 2.53%, licensee has used the same ratio for projecting the R&M expenses. Further, the expenses with regard to Smart Meter Operational Expenditure for the respective years of 5th control period is incorporated in R&M Expenses. The detailed information for such R&M expenses towards maintenance of smart meters is as follows:

- ❖ Regulation 4. (1).b of the Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2022i has stated that all consumers within the communication network area shall be supplied electricity with smart meters working in prepayment, as per the timelines specified by the Government of India.

“All consumers in areas with communication network, shall be supplied electricity with Smart Meters working in prepayment mode, conforming to relevant IS, within the timelines as specified by the Central Government:

Provided that all consumer connections having current carrying capacity beyond that specified in relevant IS, shall be provided with meters having automatic remote meter reading facility or Smart Meters as per relevant IS.

Provided further that in areas which do not have communication network, installation of prepayment meters, conforming to relevant IS, shall be allowed by the respective State Electricity Regulatory Commission”

- ❖ The Government of India has formulated the “Revamped Distribution Sector Scheme” ii(RDSS) in FY 2021-22 to assist the DISCOMs in improving their operational efficiencies and financial sustainability by providing result-linked financial assistance to DISCOMs to strengthen supply infrastructure based on meeting pre-qualifying criteria and achieving basic minimum benchmarks. The scheme has an outlay of INR 3,03,758 Crore over 5 years i.e., FY 2021-22 to FY 2025-26. The outlay includes an estimated Government Budgetary Support (GBS) of INR 97,631 Crore

- ❖ The objectives of the scheme are to:

- Improve the quality, reliability, and affordability of power supply to consumers through a financially sustainable and operationally efficient Distribution Sector
- Reduce the AT&C losses to pan-India levels of 12-15% by FY 2024-25
- Reduce ACS-ARR gap to zero by FY 2024-25

In this regard, the state-wise targets for each year shall depend on the current levels of AT&C losses and ACS-ARR gap

- ❖ The RDSS scheme has the following components:

- Component I: Metering:

Under this part, 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.

Funding under this Part 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. Under this mode, a single agency will be contracted for supplying, maintaining and operating the metering infrastructure for the purpose of meter related data and services

to the DISCOM. It will make both capital and operational expenditure under DBFOOT (Design Build Fund Own Operate & Transfer) or similar modes and will be paid for a portion of its capital expenditure initially and the remaining payment over the O&M period

➤ **Component II: Distribution Infrastructure Works**

Under this component, the DISCOM can take up works related to loss reduction and system strengthening. 66 kV level and below will be eligible under this component. In areas, where 33 kV system does not exist, 110 kV shall be permitted subject to suitable justification to be provided by the concerned DISCOM(s) in the DPR, for inclusion of such works clearly indicating its benefits including improvement in quality and reliability of power supply to the consumers. Further, sanction of such works shall be subject to satisfaction of the nodal agencies and the monitoring committee with respect to justification provided by the DISCOM. Some of the works include:

- Construction of new substations, augmentation of substations
- Provision of Armoured / Aerial bunched Cables (ABC) or High Voltage
- Distribution System in high loss areas.
- Segregation / Bifurcation of feeders and other allied works
- Replacement of conductors, which are old/frayed
- Additional HT lines to improve quality of supply
- IT/OT works
- Supervisory Control and Data Acquisition (SCADA) and Distribution Management System (DMS) in urban areas
- Works like new feeders, capacitors, etc for loss reduction
- Public Charging Infrastructure for EVs

❖ Further, the Government of India nominated Power Finance Corporation Ltd. (PFC) and the REC Limited (REC) as the nodal agencies for the implementation of the program. Subsequently, PFC and REC issued the guidelines for the implementation of the RDSS scheme

❖ As per the guidelines issued for the RDSS scheme, APSPDCL submitted the action plan and the Detailed Project Report (DPR) for the implementation of the scheme to the Government of Andhra Pradesh and to the Government of India in January 2022iii. The DPR listed down the works to be carried out under Component I and Component II and the action plan to meet the required objectives. The DISCOM wise quantities and projected costs are given below: /

S.No	Particulars	UoM	APSPDCL Value
1.	Smart Meters proposed under RDSS program for Phase I & II#	Nos.	24,41,631
2.	Total Cost of Smart Meters under RDSS program for Phase I & II	INR Cr.	1,657.66

- ❖ Basis the details submitted, the Government of India accorded the approval on 17.03.2022iv for the works under the RDSS scheme and has stated that the Government Budgetary Support (from the Government of India) for the smart metering activities shall be 15% of the approved cost of metering, including the operational cost, provided that it is not more than INR 900 per meter for consumer metering only.
- ❖ Further, the state shall be incentivized of upto 7.5% of the approved cost of metering, subject to a maximum of INR 450 per meter, for the deployment of the smart meters (consumer) within the targeted timelines for the Phase-I by December 2023. Accordingly, the Government of India accorded the approval for the following costs:

S.No	Particulars	UoM	APSPDCL Value
1.	Total Approved Cost for Smart Metering	INR Cr.	1,657.66
2.	Government Budgetary Support approved	INR Cr.	248.65
3.	Incentive approved	INR Cr.	88.70
4.	Total Government Budgetary Support approved (including incentive)	INR Cr.	337.35

- ❖ Based on the approvals from the Government of India, APSPDCL approached the Honourable Commission for the investment approval for the AMISP works under the TOTEX mode. Upon the review of the proposals, APERC accorded the investment approval for the AMISP works (duly excluding the costs pertaining to those of agriculture smart meter works). The details of the approved scheme costs are given below:

Scheme	UoM	Scheme Cost	Grant from Government of India	Net Scheme Cost
RDSS Metering Works for APSPDCL	INR Cr.	1,007.49	252.38	755.11

- ❖ As part of the implementation activities for the scheme, PFC/REC issued the Standard Bidding Document (SBD)/Guidelines for the smart meters under the TOTEX mode through PPP for 93 months and recommended the participating states/DISCOMs to adopt these guidelines/SBD

- ❖ Based on the guidelines/SBD implemented by the nodal agency, APSPDCL floated tenders for Phase-I of AMISP works (Smart Metering and Auxiliary Material), consisting of 9,85,894 smart meters on 09.12.2022, under the TOTEX mode for 93 months Under this mode, the shortlisted AMISP service provider shall execute the project on DBFOOT basis.
- ❖ Due process was followed in evaluating the technical and financial bids. Price negotiations via reverse auction with L1 bidder were done as variation in the prices quoted were observed w.r.t those in other states/DISCOM tenders. This was due to the meter concentration in the DISCOM area; while the other state/DISCOM tenders had the meters concentrated at a single area, APSPDCL has called in tenders for the smart meters spread across the DISCOM area. Considering these factors and the price negotiations with the L1 bidder, the following prices and quantities have been finalized:

S.No	Particulars	UoM	Value for Single phase smart meters	Value for Three Phase Smart Meters	Value for Three Phase LT-CT consumer smart meters	Value for Three Phase HT-CT consumer smart meters	Value for Three Phase DT smart meters	Value for Three Phase Feeder Meters
A	Total Number of Smart Meters to be installed in the state	Nos	951,167	231,709	22,026	3,530	102,246	9,741
B	Prices Discovered in the AMISP tender	INR per meter per month	72.43	147.84	254.72	350.00	214.77	381.00
C	Lifetime Cost of the meter (B x 93 months)	INR per meter	6,735.99	13,749.12	23,688.96	32,550.00	19,973.61	35,433.00
D	AP Building Workers Welfare Cess at 1%	INR per meter	67.36	137.49	236.89	325.50	199.74	354.33
E	GST at 18% (C+D)	INR per meter	1,224.60	2,499.59	4,306.65	5,917.59	3,631.20	6,441.72
F	Upfront payment	INR per meter	900.00	900.00	900.00	900.00	3,450.00	6,300.00
G	Total Cost of smart meter (C+D+E+F)	INR per meter	8,927.95	17,286.20	29,132.50	39,693.09	27,254.55	48,529.05

S.No	Particulars	UoM	Value for Single phase smart meters	Value for Three Phase Smart Meters	Value for Three Phase LT-CT consumer smart meters	Value for Three Phase HT-CT consumer smart meters	Value for Three Phase DT smart meters	Value for Three Phase Feeder Meters
H	Total Cost (A x G)	INR Crore	849.20	400.54	64.17	14.01	278.67	47.27
I	Cost of Smart meter (G/ 93 months)	INR per meter per month	96.00	185.87	313.25	426.81	293.06	521.82

❖ As the upfront payment shall be provided under the Government Budgetary Support by the Government of India, the net cost of AMISP services is given below:

S.No	Particulars	UoM	Value for Single phase smart meters	Value for Three Phase Smart Meters	Value for Three Phase LT-CT consumer smart meters	Value for Three Phase HT-CT consumer smart meters	Value for Three Phase DT smart meters	Value for Three Phase Feeder Meters
A	Total Number of Smart Meters to be installed in the state	Nos	951,167.00	231,709.00	22,026.00	3,530.00	102,246.00	9,741.00
B	Total Cost of Smart Meter (including Cess, GST, and upfront payment)	INR per meter	8,927.95	17,286.20	29,132.50	39,693.09	27,254.55	48,529.05
C	Upfront payment (Government Budgetary Support as per RDSS)	INR per meter	900.00	900.00	900.00	900.00	3,450.00	6,300.00
D	Net Cost of Smart Meter (B-C)	INR per meter	8,027.95	16,386.20	28,232.50	38,793.09	23,804.55	42,229.05

E	Net Cost incurred (Ax/D)	INR Cr.	763.59	379.68	62.18	13.69	243.39	41.14
F	Net Cost of Smart Meter (E/93)	INR per meter per month	86.32	176.20	303.58	417.13	255.96	454.08

- ❖ Basis the discussions with the AMISP vendor, the following timelines have been proposed towards the installations of the Smart meters for APSPDCL :

S.No	Particulars	UoM	FY 24	FY 25	FY 26	Total
1	Single phase smart meters	Nos	30,983	154,914	765,270	951,167
2	Three Phase Smart Meters	Nos	11,585	57,927	162,196	231,708
3	Three Phase LT-CT consumer smart meters	Nos	1,101	5,507	15,418	22,026
4	Three Phase HT-CT consumer smart meters	Nos	177	883	2,471	3,531
5	Three Phase DT smart meters	Nos	5,112	25,562	71,572	102,246
6	Three Phase Feeder Meters	Nos	336	1,682	7,723	9,741
7	Total Value	Nos	49,294	246,475	1,024,650	1,320,419

- ❖ Basis the schedules, the following is the overall cost incurred by APSPDCL to be included under O&M expense in Distribution MYT for the 5th control period from FY 2024-25 to FY 2028-29:

Sl.No	Particulars	UoM	Meter Rate (INR/meter/month)	FY 25	FY 26	FY 27	FY 28	FY 29	Total
1	Single phase smart meters	INR Cr.	86.32	11.23	58.89	98.53	98.53	98.53	366
2	Three Phase Smart Meters	INR Cr.	176.20	8.57	31.84	48.99	48.99	48.99	187
3	Three Phase LT-CT consumer smart meters	INR Cr.	303.58	1.40	5.22	8.02	8.02	8.02	31
4	Three Phase HT-CT consumer smart meters	INR Cr.	417.13	0.31	1.15	1.77	1.77	1.77	7

5	Three Phase DT smart meters	INR Cr.	255.96	5.50	20.41	31.41	31.41	31.41	120
6	Three Phase Feeder Meters	INR Cr.	454.08	0.64	3.20	5.31	5.31	5.31	20
7	Total Value	INR Cr.		27.66	120.72	194.02	194.02	194.02	730

- ❖ Thus, the Distribution Licensee request Honourable Commission to consider the total cost of INR 730 Crores to be added under “O&M expense” items in the Distribution MYT for the 5th control period, as per the APERC Regulation No.4 of 2005

Below table shows the summary of projections for the R&M expenses:

Table 10 - R&M expenses projections for 5th Control period

Name of the Parameter	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Average R&M as % of Opening GFA	2.53%	2.53%	2.53%	2.53%	2.53%	2.53%
Opening GFA	15,509	19,931	26,081	32,946	38,947	44,095
R&M expenses(as per 2.53% of GFA)	392.89	504.90	660.70	834.59	986.61	1,117.03
Enhanced wages to outsourced employees	50.00	50.00	50.00	50.00	50.00	50.00
Smart Meter Operational Expenditure		27.66	120.72	194.02	194.02	194.02
Total R&M Expenditure	443	583	831	1,079	1,231	1,361

- b. Employee expenses (EE) and Administrative and General (A&G) expenses
As per MYT order for 4th Control period, commission has considered norms linked to Number of Substations (SS), line length (Circuit KM), Number of consumers and Number of DTRs. Licensee has adopted the same methodology for projecting the employee expenses and A&G expenses for 5th Control period. Further, the licensee has considered the methodology has adopted by the Hon’ble APERC while issuing distribution true-up order for the 3rd control period i.e. arriving the employee cost without considering the provisions towards employee terminal benefit expenses. The methodology for projecting employee expenses is explained below. Same methodology has been adopted for projecting A&G expenses:
- (1) For each year, actual Employee expenses is allocated to Substations, Line length, DTRs and Consumers in the ratio of 49%:21%:10%:20%. The following ratios are calculated: Employee expense/ Substation, Employee expense/ circuit km of line length, Employee expense/ DTR, Employee expense/ Consumer.

Below table shows the historical data for Employee expenses, A&G expenses and Number of Substations (SS), line length (Circuit KM), Number of consumers and Number of DTRs.

Table 11 - Employee and A&G expenses for 4th Control period

						<i>Rs. Crs</i>
Parameter	Unit	FY19	FY20	FY21	FY22	FY23
Employee Expenses(Net) (EE)	Rs. Crs.	1,878	1,995	1,184	1,216	1,211
A&G Expenses	Rs. Crs.	159	193	79	95	108
No. of Consumers	Nos.	10,683,583	11,048,362	6,613,335	6,796,587	7,005,342
Number of DTRs	Nos.	735,586	771,331	599,766	651,177	689,853
Line Lengths	Kms	470,390	481,719	288,844	297,967	305,967
Number of SS	Nos.	2,205	2,237	1,450	1,481	1,503

Below table shows the historical norms for the ratios:

Table 12 - Norms for Employee and A&G expenses

Rs. Crs

Parameter	Unit	FY 19-20	FY 20-21	FY 21-22	FY 22-23
EE / Consumers	Rs./Nos	330	347	365	383
EE / DTR	Rs./Nos	3720	3912	4114	4326
EE / Line	Rs./Kms	9774	10278	10809	11366
EE /SS	Rs./Nos.	5071416	5333101	5608289	5897677
A&G Exp/ Consumers	Rs./Nos.	22	23	24	26
A&G Exp/DTR	Rs./Nos.	245	257	271	285
A&G Exp/line	Rs./Kms	650	683	718	756
A&G Exp/SS	Rs./Nos.	333346	350546	368635	387656

- (2) To arrive at the average of these ratios, the Licensee has considered the data from FY 2018-19 onwards. Average of these ratios for the 5 years between FY2018-19 and FY2022-23 has been considered as the norms for FY2020-21. These norms for FY2021-22 onwards are escalated for by using the escalation rate calculated based on the WPI and CPI index as shown below:

Escalation Rate: For the projections of the expenses, licensee has considered the escalation (inflation) rate as calculated from the WPI and CPI indexes in the 4th Control period as shown below.

Inflation rate depends on the Consumer Price Index (CPI) for industrial workers and Wholesale Price Index (WPI). The below table lists the CPI (Industrial Worker) and WPI data from year 2018 to year 2022.

Table 13: CPI, WPI data from year 2018 to year 2022.

Particulars	2018	2019	2020	2021	2022
CPI	294.83	317.42	335.00	351.43	372.17
WPI	118.90	121.20	121.80	135.00	151.30

Source: CPI - www.labourbureau.nic.in, WPI - www.eaindustry.nic.in (Office of the Economic Advisor website)

Basis the observed historical CPI and WPI numbers (CPI- Industrial Workers: 40% and WPI: 60%) and calculated the inflation factor based on the illustrative methodology suggested by CERC as shown below:

Table 14 - Calculation for Inflation Rate

Year	WPI	CPI	Composite number	Rt= Yt/Y1	Ln (Rt)	Year - 1	Product
2018	118.90	294.83	189.27				
2019	121.20	317.42	199.69	1.06	0.05	1	0.00
2020	121.80	335.00	207.08	1.09	0.09	2	0.05
2021	135.00	351.43	221.57	1.17	0.16	3	0.18
2022	151.30	372.17	239.65	1.27	0.24	4	0.47
A= Sum of Product column			1.65				
B= 6A			9.90				
C= n(n-1)(2n-1); n= number of years of data			180				
D=B/C			0.05				
g= exp (D)-1			0.06				
Escalation rate= g*100			5.65				

The inflation factor is observed to be 5.65% during 5th Control period.

Below are the projected norms for FY2020-21 onwards.

Table 15- Projected norms for Employee and A&G expenses (FY21 to FY23)

in Rs.

Parameter	FY21	FY22	FY23
EE / Consumers	355	375	396
EE / DTR	2,147	2,269	2,397
EE / Line	8,514	8,995	9,503
EE /SS	4,103,002	4,334,822	4,579,739
A&G Exp/Consumers	29	31	33
A&G Exp/DTR	180	190	201
A&G Exp/line	707	747	790
A&G Exp/SS	342,003	361,326	381,741

Table 16 - - Projected norms for Employee and A&G expenses (FY24 to FY29)

Parameter	in Rs.					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
EE / Consumers	418	442	467	493	521	551
EE / DTR	2,532	2,675	2,826	2,986	3,155	3,333
EE / Line	10,040	10,607	11,207	11,840	12,509	13,216
EE /SS	4,838,494	5,111,869	5,400,690	5,705,829	6,028,208	6,368,802
A&G Exp/Consumers	35	37	39	41	43	46
A&G Exp/DTR	213	225	237	251	265	280
A&G Exp/line	834	881	931	984	1,039	1,098
A&G Exp/SS	403,309	426,096	450,171	475,605	502,477	530,867

- (3) The projected ratios based on the escalation rates are multiplied by the projected Number of Substations (SS), line length (Circuit KM), Number of consumers and Number of DTRs in order to arrive at the employee expenses and A&G expenses for the respective years of 5th Control period.
- (4) Further, provision for P&G trust were created towards pension liability of APSEB origin employees for 26% share up to FY 2028-29 and 100% share after FY 2028-29, as per the actuarial report of Universal actuaries, Mumbai. Additionally, provisions towards gratuity of EPF employees and leave encashment provisions of all employees were also incorporated as per the actuarial report. The provisions are as follows:

Table-17 -Employee expense provisions:

Items	Rs in Cr					
	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Pension&Gratuity	1200.00	800.00	800.00	800.00	800.00	800.00
Gratuity of EPF holders	27.14	0.00	0.00	117.55		97.32
EL Encashment	0.00	76.22	0.00	0.00	132.10	17.38
Total Provision Requirement	1227.14	876.22	800.00	917.55	932.10	914.70

The fund to be maintained, fund available, liability already provided, provision to be made, actual provision during the year, shortfall are enclosed in annexure.

- (5) Below table shows the projected Number of Substations (SS), line length (Circuit KM), Number of consumers and Number of DTRs and the projected employee expense and A&G expenses:

Table18- Projections for Employee and A&G expenses

Parameter	Unit	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
No. of Consumers	Nos.	7,224,249	7,448,377	7,677,866	7,912,921	8,153,736	8,400,506
Number of DTRs	Nos.	703,573	713,893	725,223	737,163	749,903	763,483
Line Lengths	Kms	312,994	318,443	324,206	330,294	336,768	343,679
Number of SS	Nos.	1,564	1,662	1,751	1,846	1,944	2,050
Future provision towards P&G Trust	Rs. Cr.	1,200	800	800	800	800	800
Employee Expense arrived from norms	Rs. Cr.	1,551	1,708	1,873	2,055	2,255	2,477
Provision for gratuity of EPF holders	Rs. Cr.	27	-	-	118		97
Provision for EL encashment	Rs. Cr.	-	76	-	-	132	17
Total Employee Expenses	Rs. Cr.	2,779	2,584	2,673	2,973	3,187	3,392
A&G Expenses	Rs. Cr.	129	142	156	171	188	206

O&M projections summary for the Control period and break-up are shown in the table below.

Table 19 - Summary of O&M expense projections

Parameter	Unit	Rs. Crs					
		FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Employee Cost(Net)	Rs. Crs	2,779	2,584	2,673	2,973	3,187	3,392
A&G Cost	Rs. Crs	129	142	156	171	188	206
R&M Cost	Rs. Crs	443	583	831	1,079	1,231	1,361
Total O&M Expenses	Rs. Crs	3,351	3,309	3,660	4,222	4,605	4,959

1.7 Weighted Average Cost of Capital (WACC)

The Regulation prescribes that the licensees will be compensated for the financing costs through Return on Capital Employed (ROCE) principles. This principle is aimed to provide the licensee with the return on debt as well as return on equity at a normative level. The licensee has computed the ROCE as provided in the Clause 15 of the Regulation which specifies that the ROCE be computed by multiplying the Regulated Rate Base (RRB) by the Weighted Average Cost of Capital (WACC).

The Regulation specifies the following methodology for computation of ROCE:

Return on Capital Employed (RoCE) for the RRB for the year ‘i’ shall be computed in the following manner:

$$\text{RoCE}_i = \text{WACC} * \text{RRB}_i$$

Where RRB_i is the Regulated Rate Base for the year 1 and WACC is the Weighted Average Cost of Capital. The detailed computation of RRB is explained in Section 2.5 above. With respect to the WACC, the Regulation specifies the formula as follows:

$$\text{WACC}_{RRB} = \left[\frac{D/E}{1 + D/E} \right] r_d + \left[\frac{1}{1 + D/E} \right] r_e$$

Where,

D/E is the Debt to Equity Ratio – Licensee is proposing a normative Debt: Equity ratio of 75:25

- r_d is the Cost of Debt – Licensee has considered the cost of debt as the weighted average of the debt rates for the ongoing loans and projected loans.

Table 20 - Calculation for Debt Rate

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Ongoing Loans (Opening balance) (Rs. Cr.) (Excl. Working capital loans)	6,269	7,207	7,312	7,051	6,744	6,343
Debt rate of Ongoing Loans (%)	9.6%	7.9%	9.2%	9.0%	8.9%	8.7%
New Loans (Opening balance) (Rs. Cr.)	0	1,546	3,567	6,257	8,257	9,646
Debt rate of New Loans (%)	10.9%	10.9%	10.9%	10.9%	11.0%	11.0%
Weighted Average of Debt rate (%)	9.75%	8.67%	9.89%	10.01%	10.12%	10.13%

- r_e is the Return on Equity – It has been the prevailing regulatory practice to consider 14% as the Return on Equity (ROE) in the ARR of Network business of AP Power Utilities. The APDISCOMs request the Hon'ble APERC to continue the same practice for the 5th Control period also, in view of the prevailing equity market conditions.

Based on the RRB explained earlier, the WACC and the ROCE for the 5th Control Period is as follows:

Table 21: Projected WACC

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Capital Structure						
Debt Percent	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%
Equity percent	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
Cost of Funds						
Cost of Debt percent	9.8%	8.7%	9.9%	10.0%	10.1%	10.1%
Return on Equity percent	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%
WACC	10.8%	10.0%	10.9%	11.0%	11.1%	11.1%

1.8 Return on Equity

As per the Hon'ble Commission MYT Tariff order for 4th control period, the Return on Equity considered for arriving at Weighted Average Cost of Capital is taken as 14% for 5th control period.

1.9 Return on Capital Employed

The licensee has arrived at RoCE for all five years of the control period as a product of Regulated Rate Base (RRB) and Weighted Average Cost of Capital (WACC) which is as follows:

Table22: Projected ROCE (Rs. Cr.)

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Regulated Rate Base	5,773	8,031	11,411	14,522	17,468	19,318
WACC	10.81%	10.00%	10.92%	11.01%	11.09%	11.10%
Return on Capital Employed	624	803	1,246	1,598	1,937	2,144

1.10 Taxes on Income

The licensee projects 17.47% tax (Minimum Alternate Tax) including cess and surcharge on Return on Equity during the current fiscal and during ensuing control period. The details are as follows:

Table23: Projected Taxes on Income

	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
RRB	5,773	8,031	11,411	14,522	17,468	19,318
25% of Regulatory Rate Base	1443	2008	2853	3631	4367	4830

	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
ROE %	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%
Expected Profit @ 14% on 25% of RRB	202	281	399	508	611	676
Tax on Income @ 17.47%	43	60	85	108	129	143

1.11 Other Expenses

The Licensee expects the other expenses to increase marginally by 3% every year. Below table shows the components of other expenses.

Table:24: Other Expenses Details

Particulars	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Misc Other Expenses	24.7	25.5	26.2	27.0	27.8	28.7

1.12 Non- tariff income

Licensee has projected the non-tariff income based on the historical actual non-tariff income with 3% escalation. Below is the summary of the non-tariff income for the 5th control period.

Table 25 - Projections of Non-tariff income

Rs. Crs

Particulars for 33 kV OA Consumers	FY23 (Actual)	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Staff Loans & Advances	0.60	0.61	0.63	0.65	0.67	0.69	0.71
Fines & Penalties from Suppliers & Contractors	23.39	24.09	24.82	25.56	26.33	27.12	27.93
Profit on Sale of Scrap	2.04	2.10	2.17	2.23	2.30	2.37	2.44
Sale of Tender Schedules	0.10	0.10	0.11	0.11	0.11	0.12	0.12
Rental from Contractors	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Supervision Charges	2.41	2.48	2.55	2.63	2.71	2.79	2.88
Miscellaneous Income	28	29	30	31	32	32	33
Withdrawal from Consumer Contribution towards Depreciation on Fixed Assets	290	364	525	725	915	1060	1155
Total (Rs. Crs.)	347	422	585	787	979	1125	1223

1.13 Aggregate Revenue Requirement

Following table shows the projected revenue requirement for the distribution licensee during the 5th Control Period.

Table26: Projected Revenue Requirement for 5th Control Period

Particulars	Rs. Crs					
	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
O&M Charges (Net)	3,351	3,309	3,660	4,222	4,605	4,959
Depreciation	819	1,170	1,661	2,186	2,583	2,934
Advance Against Depreciation	0	0	0	0	0	0
Taxes on Income	43	60	85	108	129	143
Other Expenditure	25	25	26	27	28	29
Special Appropriations	0	0	0	0	0	0
Total Expenditure	4,237	4,563	5,432	6,543	7,346	8,065
Less: IDC and expenses capitalized*	197	274	366	331	285	173
Less: O&M expenses capitalized	0	0	0	0	0	0
Net Expenditure	4,040	4,289	5,066	6,212	7,061	7,892
Add Return on Capital Employed	624	803	1,246	1,598	1,937	2,144
Total Distribution ARR	4,664	5,092	6,312	7,810	8,998	10,036
Less: Wheeling Revenue from Third Party/Open Access/NTI (if any)	437	602	810	1,010	1,162	1,264
Revenue Requirement, (Net transferred to Retail Supply Business)	4,227	4,490	5,503	6,801	7,836	8,771

2. Wheeling Charges and Losses

The licensee has determined voltage wise wheeling charges and losses to recover ARR and distribution network losses. As per the Regulation, the licensee has determined the ARR for the distribution business and that forms the basis for determination of wheeling charges.

2.1 Determination of voltage wise demand

The Distribution Licensee has captured the historical Contracted Demand of 33 kV and 11 kV and projected the peak demands after incorporating diversity factors of 75%, 70% and 15% for to 33 kV, 11 kV and LT contracted loads respectively.

Below are the contracted Demands of 33 kV and 11 kV and Coincident demand of LT for each year of the third Control Period.

Table 27 - Contracted demand and Coincident demand with consideration of diversity factors

Parameter	Voltage Level	In MW				
		FY25	FY26	FY27	FY28	FY29
Contracted Load – CD ₃₃	33 kV	707.13	743	781	821	864
Contracted Load – CD ₁₁	11 kV	593.25	849	888	929	973
Contracted Load – CD _{LT}	LT	2,165.16	2,277	2,394	2,518	2,648

Considering the historical growth of the above, the Licensee has projected the Contracted Demand of 33 kV , 11 kV and LT for each year of the 5th Control Period as shown in the below table.

Table 28: Voltage-wise Demand

Parameter	Voltage Level	In MW					
		FY24	FY25	FY26	FY27	FY28	FY29
Contracted Load – CD₃₃	33 kV	2,165	2,277	2,394	2,518	2,648	2,786
Contracted Load – CD₁₁	11 kV	848	1213	1268	1327	1390	1458
Contracted Load – CD_{LT}	LT	943	990	1,041	1,095	1,152	1,213

The Load at 33 KV contributed from all voltages was computed by adding up the following

- Grossed up 33 kV Contracted Load with 33 kV losses
- Grossed up 11 kV Contracted Load with 11 kV losses and further by 33 kV losses
- Grossed up LT Contracted Load with LT losses and further by 11kV and then by 33 kV losses

The Load at 11 kV contributed from all the voltages was computed by adding the following

- Grossed up 11 kV Contracted load with 11 kV losses
- Grossed up Contracted Load of LT with LT losses and further by 11kV

The Load at LT contributed from all the voltages was computed by adding the following

- Grossed up Contracted Load of LT with LT losses

Below is the assumptions considered for wheeling losses.

The licensee has taken various steps to reduce the losses like strengthening of the network infrastructure, addition of network elements, and vigorously undertaking the Energy Audit visit to keep a close tab on the losses.

Based on the historical performance and the loss reduction measures carried out in the state, licensee has projected the losses for 5th control period as mentioned in the table below.

Table 29 - Loss Trajectory for LICENSEE

Voltage Level	Rs.					
	FY24	FY25	FY26	FY27	FY28	FY29
LT	3.20%	3.19%	3.18%	3.18%	3.17%	3.16%
11 kV	3.31%	3.30%	3.29%	3.29%	3.28%	3.27%
33 kV	5.08%	5.07%	5.06%	5.04%	5.03%	5.02%

The losses has been considered as per the Resource Plan filed with APERC for the 5th Control Period.

The below table lists the Demand and Contracted load after adjusting for the losses:

Table 30: Voltage-wise Load after loss adjustment

	In MW				
	FY25	FY26	FY27	FY28	FY29
Load at 33 kV from all voltages	4,081	4,407	4,629	4,863	5,111
Load at 11 kV from all voltages	3,226	3,505	3,681	3,866	4,063
Load at LT from all voltages	2,398	2,522	2,652	2,789	2,933

2.2 Determination of voltage wise Gross Fixed Assets

The Distribution licensee has projected voltage wise asset base (GFA) for each year of the control period based on opening GFA and projected assets addition. The following table summarizes voltage wise assets for each year of the MYT 5th Control Period:

Table31: Voltage-wise Asset Base

Voltage level	Rs. Crs				
	FY25	FY26	FY27	FY28	FY29
33 kV	3,779	5,556	7,322	8,780	9,596
11 kV	16,503	19,629	22,031	23,880	24,870
LT	5,799	7,761	9,594	11,435	13,037
Total	26,081	32,946	38,947	44,095	47,503

The GFA additions are projected based on physical assets added to the respective voltages. However, voltage wise GFA should be segregated based on exclusive utilization of asset for the respective voltage level i.e. 11 kV assets being used by 11 kV loads and LT loads, 33 kV assets being used by 33 kV, 11 kV and LT loads. Exclusive voltage wise assets have been segregated based on Contracted demand for 33 kV and 11 kV and Coincident demand for LT after adjusting for losses - apportioning of 33 kV asset base towards 33 kV, 11 kV and LT, apportioning of 11 kV asset base towards 11 kV and LT. The LT asset base is considered 100% towards LT. Voltage wise asset base after apportioning is as shown below:

Table 32: 33 kV Voltage Asset Base Apportioning

	<i>Rs. Crs</i>				
	FY25	FY26	FY27	FY28	FY29
33 kV	684	1,007	1,329	1,596	1,747
11 kV	809	1,184	1,555	1,858	2,026
LT	2,285	3,365	4,438	5,326	5,823
Total	3,779	5,556	7,322	8,780	9,596

Table 33: 11 kV Voltage Asset Base Apportioning

	<i>Rs. Crs</i>				
	FY25	FY26	FY27	FY28	FY29
11 kV	4,315	5,110	5,715	6,177	6,419
LT	12,188	14,519	16,316	17,704	18,452
Total	16,503	19,629	22,031	23,880	24,870

Table 34: LT level Asset Base Apportioning

	<i>Rs. Crs</i>				
	FY25	FY26	FY27	FY28	FY29
LT	5,799	7,761	9,594	11,435	13,037
Total	5,799	7,761	9,594	11,435	13,037

Table 35: Total Asset Base Apportioning at each voltage level

	<i>Rs. Crs</i>				
	FY25	FY26	FY27	FY28	FY29
33 kV	684	1,007	1,329	1,596	1,747
11 kV	5,124	6,294	7,270	8,035	8,445
LT	20,273	25,644	30,348	34,464	37,312
Total	26,081	32,946	38,947	44,095	47,503

2.3 Allocation of ARR Cost allocation methodology

Distribution Licensee has proposed allocation of ARR components to the various voltages for determination of wheeling charges as shown below:

O&M Expense allocation

1) Employee Expenses (EE) and Administrative & General Expenses (A&G)

Employee expenses and A&G expenses have been apportioned as per the distribution of No. of Consumers, Number of DTRs, Length of lines and Number of SS.

- a) Licensee projected the voltage wise No. of Consumers, Number of DTRs, Lengths of lines and Number of SS and then observed voltage-wise percentage of each of these parameters.

- b) As per employee expenses and A&G expenses projections done in section 1.6, licensee allocated these expense into SS, line length, DTR and consumer in the ratio of 49% : 21% : 10% : 20%.
- c) Expense allocation of SS, line length, DTR and consumers are then apportioned to LT, 11kV and 33kV voltage level as per the observed percentages of these parameters.

2) Repairs & Maintenance (R&M) expenses

The Distribution licensee has observed that the actual R&M expenses are a function of asset base. An increase in the asset base leads to a proportional increase in R&M expenses. Hence, R&M Expenses have been allocated based on the voltage level asset base.

Depreciation, Interest/ROCE, Taxes and Other Expenses

Table: 36: Distribution ARR without considering wheeling revenue from OA consumers:

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
O&M Charges (Net)	3,351	3,309	3,660	4,222	4,605	4,959
Depreciation	819	1,170	1,661	2,186	2,583	2,934
Advance Against Depreciation	0	0	0	0	0	0
Taxes on Income	43	60	85	108	129	143
Other Expenditure	25	25	26	27	28	29
Special Appropriations	0	0	0	0	0	0
Total Expenditure	4,237	4,563	5,432	6,543	7,346	8,065
Less: IDC and expenses capitalized*	197	274	366	331	285	173
Less: O&M expenses capitalized	0	0	0	0	0	0
Net Expenditure	4,040	4,289	5,066	6,212	7,061	7,892
Add Return on Capital Employed	624	803	1,246	1,598	1,937	2,144
Total Distribution ARR	4,664	5,092	6,312	7,810	8,998	10,036
Less: NTI	422	585	787	979	1,125	1,223
Revenue Requirement, (Net transferred to Retail Supply Business)	4,242	4,507	5,525	6,831	7,873	8,813

Depreciation Interest/ROCE, Taxes and Other Expenses computation is directly linked to the asset base. Hence, they have been allocated based on the apportioned asset base.

ARR

The voltage wise ARR has been arrived with the methodology explained above which is summarized in the below table:

Table37: ARR for Wheeling Charges

		Rs. Crs				
		FY25	FY26	FY27	FY28	FY29
ARR₃₃	33 kV	74	112	160	201	234
ARR₁₁	11 kV	983	1170	1414	1596	1753
ARR_{LT}	LT	3376	3450	4244	5258	6076
Total		4507	5525	6831	7873	8813

The voltage wise wheeling charges are computed by dividing the ARR at that voltage level divided by the Demand at that voltage level arrived in section 2.1(Table:27) as summarized in the below table.

Table38: Computaiton for Voltage-wise Wheeling Charges

Voltage Level	Voltage-wise wheeling charges
33kV	ARR ₃₃ / CD ₃₃
11kV	ARR ₁₁ / CD ₁₁
LT	ARR _{LT} / CD _{LT}

CD - Contracted demand adjusted for losses

Based on the methodology explained above, the licensee is proposing the following distribution wheeling charges for each of the control period.

Table39: Distribution Wheeling Charges for 5th Control Period

Voltage Level	FY25	FY26	FY27	FY28	FY29
33 kV (Rs./kVA/Month)	83.17	119.60	162.45	193.84	214.42
11 kV (Rs./kVA/Month)	964.49	1,098.20	1,268.28	1,367.17	1,431.84
LT (Rs./kVA/Month)	1,262.89	1,477.11	1,740.13	1,911.89	2,041.81

- A consumer drawing energy at the 33 kV level of the Distribution licensee network would have to pay the wheeling charges for 33 kV
- A consumer drawing energy at 11 kV level of the Distribution licensee network would have to pay the wheeling charges of 11 kV
- A consumer drawing energy at LT level of the Distribution licensee network would have to pay the wheeling charges for LT

As per section 2 (75) of Electricity Act, 2003 "wheeling" means the operation whereby the distribution system and associated facilities of a transmission licensee or distribution licensee, as the case may be, are used by another person for the conveyance of electricity on payment of charges to be determined under section 62.

Since all the consumers including those connected at EHT network (132kV & above) are in the fold of the APDISCOMs and drawl of consumers from Open Access sources i.e Third Party Generators / Traders or Exchanges is included in the DISCOM drawls, the wheeling service is supposed to be provided by the DISCOMs only. The DISCOMs are already paying Transmission Charges for their peak drawl which includes drawls pertaining to intra state and inter-state open access transactions.

As per clause 18 of APERC Open Access Regulation regarding payment terms & conditions, the Distribution Licensee has to invoice an User in respect of the Open Access charges.

Hence, the licensee requests to indicate applicable charges and losses for transmission as well in the order for wheeling of the Discom for convenience of the consumers (in terms of obviation of the need to refer to the transmission tariff order).

Table 40: Expected Wheeling Revenue from OA consumers for 5th control period:

33 Kv	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29
Contracted Capacity (MVA)	135.3	138.1	140.8	143.6	146.5	149.4
No of Months Contracted for	12	12	12	12	12	12
Monthly Wheeling Charges	69.00	83.17	119.60	162.45	193.84	214.42
Total Charges (Rs. Crs.)	11.21	13.78	20.21	28.00	34.08	38.45
11 Kv	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29
Contracted Capacity (MVA)	2.57	2.57	2.57	2.57	2.57	2.57
No of Months Contracted for	12	12	12	12	12	12
Monthly Wheeling Charges	1134.14	964.49	1098.2	1268.28	1367.17	1431.84
Total Charges (Rs. Crs.)	3.50	2.98	3.39	3.92	4.22	4.42
Wheeling Revenue	14.71	16.76	23.60	31.92	38.30	42.87

Table: 41: Distribution ARR after consideration of wheeling Revenue from open access consumers:

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
O&M Charges (Net)	3,351	3,281	3,539	4,028	4,411	4,765
Depreciation	819	1,170	1,661	2,186	2,583	2,934
Advance Against Depreciation	0	0	0	0	0	0
Taxes on Income	43	59	84	107	129	143
Other Expenditure	25	25	26	27	28	29
Special Appropriations	0	0	0	0	0	0
Total Expenditure	4,237	4,536	5,311	6,349	7,152	7,871
Less: IDC and expenses capitalized*	197	274	366	331	285	173
Less: O&M expenses capitalized	0	0	0	0	0	0

Particulars	FY24 (RE)	FY25	FY26	FY27	FY28	FY29
Net Expenditure	4,040	4,261	4,946	6,018	6,867	7,698
Add Return on Capital Employed	624	803	1,245	1,596	1,935	2,142
Total Distribution ARR	4,664	5,064	6,191	7,615	8,802	9,840
Less: Wheeling Revenue from Third Party/Open Access/NTI (if any)	437	602	810	1,010	1,162	1,264
Revenue Requirement, (Net transferred to Retail Supply Business)	4,227	4,490	5,502	6,800	7,835	8,770

Annexure A

3. Sales Forecast, Load Forecast, Capital Expenditure

3.1 Sales Projections for Non-scheduled Consumers

Based on projected CAGRs, category-wise sales projections for 5th Control Period has been shown below:

Table 41 - Sales projections for 5th Control Period (MUs)

								Rs. Crs
Category	2022-23 (Actuals)	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	CAGR
LT Category								
Domestic	5196.51	5472.02	5762.27	6068.07	6390.25	6729.69	7087.35	5.31%
Commercial & Others	1103.67	1157.22	1213.39	1272.31	1334.12	1398.95	1466.97	4.86%
Industry	601.21	620.93	641.43	662.75	684.92	707.99	731.99	3.33%
Institutional	823.84	894.14	970.72	1054.19	1145.19	1244.43	1352.68	8.62%
Agriculture & Related	6870.98	7214.52	7575.25	7954.01	8351.71	8769.30	9207.76	5.00%
LT Total	14596.21	15358.83	16163.07	17011.33	17906.19	18850.36	19846.75	5.25%
HT Category								
Domestic	15.91	16.71	17.55	18.42	19.34	20.31	21.33	5.00%
Commercial & Others	468.13	492.00	517.16	543.71	571.73	601.32	632.58	5.15%
Industry	6950.12	7354.56	7783.77	8239.33	8722.96	9236.47	9781.80	5.86%
Institutional	1090.31	1151.70	1217.05	1286.68	1360.91	1440.14	1903.91	9.74%
Agriculture & Related	769.49	1533.22	2043.84	2544.79	2564.66	2566.35	2568.13	22.25%
RESCO's	434.60	458.57	483.86	510.55	538.71	568.43	599.78	5.52%
HT Total	9728.57	11006.76	12063.23	13143.48	13778.32	14433.00	15507.53	8.08%
LT + HT	24324.78	26365.59	28226.30	30154.81	31684.51	33283.37	35354.27	6.43%

3.2 Sales forecast for Open Access Consumers

Table 42 - Sales projections for 4th Control Period (MUs) - Open Access

						Rs. Crs
OA Categories	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
3rd Party	157.00	164.85	173.09	181.75	190.83	200.37
IEX	442.38	464.50	487.73	512.11	537.72	564.60
Intrastate	330.31	346.82	364.16	382.37	401.49	421.56
Total (MUs)	929.69	976.17	1024.98	1076.23	1130.04	1186.54

3.3 Load Forecast

On the basis of Energy Input at 33 kV level for Discom and circle and assumed load factors for FY2022-23, licensee projected demand in MW for 5th period as per formula mentioned below:

$$\text{Peak Demand (MW)} = \text{Energy required} / (24 \times 365 / 1000) / \text{load factor}$$

Voltage-wise load forecasted by the licensee is given below in MWs

Table 43:

Voltage	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29
33 kV	943	990	1041	1095	1152	1213
11 kV	848	1213	1268	1327	1390	1458
LT	14434	15178	15961	16786	17656	18572

3.3.1 State Level Demand forecast

The peak demand forecasted at the state level has been shown below:

Table 44 - State peak demand for 5th Control Period

Parameters	FY23	FY24	FY25	FY26	FY27	FY28	FY29	CAGR
Energy Req at state level (MUs)	72400	79472	85365	90924	99731	105179	111378	7.44%
State Peak Demand (MW)	12293	13746	15226	16256	17831	18805	19913	8.37%

3.3.2 Circle/Discom Level Demand forecast

On the basis of non-coincident load factors and energy input at 33 kV level each Discom & circle level, mentioned above, non-coincident peak demands at Discom level & at circle level have also been estimated. Summary of the non-coincident peak demands at LICENSEE is shown below:

Table 45 - LICENSEE Non-coincident peak demand (MW)

Circle/Peaks at 33 kV level	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34
Nellore	728	765	805	847	891	938	989	1,040	1,095	1,153	1,213
Tirupati	1,513	1,598	1,689	1,785	1,888	1,997	2,114	2,235	2,364	2,500	2,644
Kadapa	772	833	882	935	992	1,053	1,119	1,187	1,261	1,339	1,424
Anantapur	1,250	1,327	1,392	1,463	1,534	1,609	1,689	1,771	1,857	1,947	2,041
Kurnool	750	805	846	889	934	983	1,035	1,089	1,146	1,206	1,269
SPDCL	6,294	6,728	7,183	7,549	7,932	8,422	8,843	9,283	9,782	10,270	10,792

Rs. Crs

3.4 Capital Expenditure Projections for 5th Control Period

Table 46 – Total Forecasted CAPEX for 5th Control period

Rs. Crs

S. No.	Item	FY24	FY25	FY26	FY27	FY28	FY29
	Total Capital Expenditure forecasted (Rs. Cr.)	5,877	4,506	5,701	4,079	2,760	3,041

3.5 Computation of employee provisions requirement

Table 47 – Employee provisions requirement

Particulars	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores
Fund to be maintained	6,292.07	6,836.39	7,480.75	8,197.19	8,790.63	9,857.74	10,879.8
Fund available as at 31-03-2023	2,638.36	3,183.84	4,060.23	4,992.88	5,956.29	6,941.55	7,951.28
Liability already provided	1,846.45	1,633.46	2,033.46	2,033.46	2,033.46	2,033.46	2,033.46
Provision to be made	1,807.26	2,019.09	1,387.06	1,170.85	800.88	882.73	895.01
Actual Provision made during year	287.01	1,200.00	800.00	800.00	800.00	800.00	800.00
Short fall /(Excess)	1,520.25	819.09	587.06	370.85	0.88	82.73	95.01
B.Gratiuity for Employees who joined on or after 01.02.1999 (EPF Employees)							
Particulars	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores
Fund to be maintained	363.84	390.98	426.8	465.88	508.53	555.07	605.85
Liability already provided	325.89	363.84	390.98	390.98	390.98	508.53	508.53
Provision to be made	37.95	27.14	35.82	74.9	117.55	46.54	97.32
Actual Provision made during year	37.95	27.14	0	0	117.55		97.32
Short fall /(Excess)	0	0	35.82	74.9	0	46.54	0
C.Leave Encashment liability provision to be created as per Acturial valuation report							
Particulars	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores	₹ in Crores
Fund to be maintained	977.18	1001.25	1053.4	1104.77	1153.35	1185.5	1202.88
Liability already provided	356.22	977.18	977.18	1053.40	1053.40	1053.40	1185.50
Provision to be made	620.96	24.07	76.22	51.37	99.95	132.10	17.38
Actual Provision made during year	620.96	0	76.22	0	0	132.10	17.38
Short fall /(Excess)	0	24.07	0.00	51.37	99.95	0.00	0.00
Total Provision to be made during the year (A+B+C)	945.92	1,227.14	876.22	800.00	917.55	932.10	914.70
Short fall	1,520.25	843.17	622.88	497.12	100.83	129.27	95.01

Company Name	SPDCL
Filing Date (dd/mm/yy)	Annual
Multi Year Tariff Period	FY 25 to FY 29
Base Year	FY24
Date Submitted	
No. of Years	5
Type of Data	Filing
Business type	Distribution

S. No.	Title	Form No.
1	Revenue Requirement	Form 1.0
2	Regulated Rate Base	Form 1a
3	Capital Structure	Form 1b
4	Wheeling Revenue from Third Party/Open Access	Form 1 c
5	BALANCE SHEET	Form 1.1(i)
6	GROSS FIXED ASSETS	Form 1.1 a
7	ACCUMULATED DEPRECIATION	Form 1.1 b
8	Capital Work in Progress	Form 1.1 c
9	INVESTMENT PLAN	Form 1.1d
10	Voltage wise asset base	Form 1.1e
11	New Loans	Form 1.1 g(i)
12	Loans	Form 1.1g
13	FOREIGN CURRENCY LOANS & CREDIT	Form 1.1h
14	CURRENT ASSETS	Form 1.1j
15	CURRENT LIABILITIES	Form 1.1k
16	RESERVES	Form 1.1n
17	Cash Flow Statement	Form 1.2
18	Operation and Maintenance Expenses	Form 1.3a
19	WORKING CAPITAL	Form 1.3(i)
20	Other Expenses	Form 1.3i
21	Distribution System Losses	Form 3.3
22	Contributions and Grants	Form 7.0
23	Revenue Surplus / (deficit) at current tariffs	Form 8
24	Revenue Surplus / (deficit) at Proposed tariffs	Form 9
25	Non Tariff Income	Form 10

Form 1.0 - Revenue Requirement

This form refers to the net revenue requirements transferred to Retail Supply Business

Particulars	Amount in Rs Crores					
	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Operation and Maintenance Charges	3,351	3,309	3,660	4,222	4,605	4,959
Depreciation	819	1,170	1,661	2,186	2,583	2,934
Advance Against Depreciation	0	0	0	0	0	0
Taxes on Income	43	60	85	108	129	143
Other Expenditure	25	25	26	27	28	29
Special Appropriations	0	0	0	0	0	0
Total Expenditure	4,237	4,563	5,432	6,543	7,346	8,065
Less: IDC and expenses capitalized*	197	274	366	331	285	173
Less: O&M expenses capitalized	0	0	0	0	0	0
Net Expenditure	4,040	4,289	5,066	6,212	7,061	7,892
Add Return on Capital Employed	624	803	1,246	1,598	1,937	2,144
Total Distribution ARR	4,664	5,092	6,312	7,810	8,998	10,036
Less: Wheeling Revenue from Third Party/Open Access/NTI (if any)	437	602	811	1,011	1,163	1,266
Revenue Requirement, (Net transferred to Retail Supply Business)	4,227	4,490	5,502	6,800	7,835	8,770

*To be provided only if included as part of Total expenditure

Form 1a - Regulated Rate Base

This form pertains to the rate base calculation

Amount in Rs Crores

Particulars	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Assets	19931.23	26081.27	32945.98	38946.93	44095.10	47503.47
OCFA Opening Balance	15509.49	19931.23	26081.27	32945.98	38946.93	44095.10
Additions to OCFA	4421.74	6150.04	6864.71	6000.95	5148.17	3408.37
Depreciation	9017.86	10187.38	11848.76	14034.90	16618.22	19552.44
Opening Balance	8198.86	9017.86	10187.38	11848.76	14034.90	16618.22
Depreciation during the Year	819.00	1169.52	1661.37	2186.15	2583.32	2934.23
Consumer Contributions	4970.82	6407.84	8476.15	9267.50	9004.08	8669.63
Cons Contributions Opening Balance	2372.73	4970.82	6407.84	8476.15	9267.50	9004.08
Additions to Cons Contributions	2598.09	1437.02	2068.31	791.35	-263.42	-334.45
Working Capital	333.11	317.03	357.26	389.26	409.08	441.14
Change in Rate Base	502.33	1771.74	1567.51	1511.73	1414.14	404.30
Regulated Rate Base	5773.34	8031.33	11410.83	14522.06	17467.75	19318.24

Form 1b - Capital Structure

This form pertains to the calculation of the Weighted Average Cost of capital

In Percentage

Particulars	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Capital Structure						
Debt Percent	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%
Equity percent	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%
Cost of Funds						
Cost of Debt percent	9.75%	8.67%	9.89%	10.01%	10.12%	10.13%
Return on Equity percent	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%
WACC	10.81%	10.00%	10.92%	11.01%	11.09%	11.10%

Index Sheet

Form 1 c Wheeling Revenue from Third Party/Open Access

This form refers to the wheeling revenues generated from the third party or open access

Please fill in the required details pertaining to each year

S.No.	Voltage Level	D Link	Base Year			Year 1			Year 2		
			Contracted Capacity (MVA)	Monthly Wheeling Charges Rs/kVA/month	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	Monthly Wheeling Charges	Total Charges (Rs. Crs.)
	33 kV		135.34	69.00	11.21	138.05	83.17	13.78	140.81	119.60	20.21
	11 kV		2.57	1134.14	3.50	2.57	964.49	2.97	2.57	1098.20	3.39
	LT				0.00			0.00			0.00
	Total		0.00		14.71			16.75			23.60

33kV

S.No.	Third Party/Open Access Consumer (Particulars)	D Link	Base Year				Year 1				Contracted Capacity (MVA)
			Contracted Capacity (MVA)	No of Months Contracted for	Monthly Wheeling Charges Rs/kVA/month	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	No of Months Contracted for	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	
1.00	Total		135.34	12.00	69.00	11.21				0.00	
2.00						0.00	138.05	12.00	83.17	13.78	
3.00						0.00				0.00	140.81
4.00						0.00				0.00	
5.00						0.00				0.00	
6.00						0.00				0.00	
	Total					11.21				13.78	

Year 3			Year 4			Year 5			Remarks					
Contracted Capacity (MVA)	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
143.63	162.45	28.00	146.50	193.84	34.08	149.43	214.42	38.45						
2.57	1268.28	3.91	2.57	1367.17	4.22	2.57	1431.84	4.42						
		0.00			0.00			0.00						
0.00		31.91			37.02			42.86						

Year 2			Year 3				Year 4				Year 5			
Recorded Maximum Demand (MVA)	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	No of Months Contracted for	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	No of Months Contracted for	Monthly Wheeling Charges	Total Charges (Rs. Crs.)	Contracted Capacity (MVA)	No of Months Contracted for	Monthly Wheeling Charges	Total Charges (Rs. Crs.)
		0.00				0.00				0.00				0.00
		0.00				0.00				0.00				0.00
12.00	119.60	20.21				0.00				0.00				0.00
		0.00	143.63	12.00	162.45	28.00				0.00				0.00
		0.00				0.00	146.50	12.00	193.84	34.08				0.00
		0.00				0.00				0.00	149.43	12.00	214.42	38.45
		20.21				28.00				34.08				38.45

Form 1.1(i) - BALANCE SHEET

Particulars	D Link	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
ASSETS							
Gross Fixed Assets		19931	26081	32946	38947	44095	47503
Less: Accumulated Depreciation		9018	10187	11849	14035	16618	19552
Net Fixed Assets		10913	15894	21097	24912	27477	27951
Capital Expenditure-in-progress		5367	4492	4322	3180	1380	1521
Investments		287	287	287	287	287	287
Current Assets		25050	22882	21750	20404	19226	18404
Assets not in use		0	0	0	0	0	0
Long term Loans and advances		475	489	504	519	534	550
Others Non Current Investments		117	119	121	123	126	129
TOTAL ASSETS		42208	44163	48081	49426	49030	48841
LIABILITIES							
Equity		359	359	359	359	359	359
Reserves And Consumer Contributions & Grant		-4521	-3078	-1004	-207	-466	-795
Indian Loans		28371	25043	22531	19289	15896	12439
Foreign Loans		0	0	0	0	0	0
Current Liabilities		11664	11744	11680	11604	11440	11512
Payment due on Capital Liabilities/Other long term Liabilities		2597	6016	10097	13450	16502	19624
Others		3739	4079	4419	4932	5298	5702
TOTAL LIABILITIES		42208	44163	48081	49426	49030	48841

Form 1.1 a - GROSS FIXED ASSETS

Base Year	Amount in Rs. Crores			
Asset Particulars	Opening Balance	Additions	Adjustment/De ductions	Closing Balance
TANGIBLE ASSETS:				
Land & land rights	4.91	13.09		18.00
Buildings	206.87	79.70		286.58
Other civil works	65.55	40.04		105.58
Plant & Machinery	0.00	0.00		0.00
Plant and Machinery - 33 kV	908.12	404.94		1313.06
Plant and Machinery - 11 kV	7860.80	1185.21		9046.02
Plant and Machinery - LT	88.43	339.19		427.63
Metering Equipments	1063.74	980.80		2044.54
Others	554.88	69.56		624.45
Line Cable Network	0.00	0.00		0.00
Line Cable Network - 33 kV	413.87	259.77		673.63
Line Cable Network - 11 kV	1624.64	463.31		2087.95
Line Cable Network - LT	2498.75	478.19		2976.94
Others	0.00	0.00		0.00
Vehicles	4.85	0.26		5.11
Furniture & Fixtures	9.35	10.22		19.58
Office Equipment	52.10	35.37		87.48
Computers & IT Equipment	75.04	50.13		125.17
Low Value Assets	1.29	0.84		2.13
Merger Assets - Balance	39.20	0.00		39.20
INTANGIBLE ASSETS:	0.00	0.00		0.00
Software	37.08	11.11		48.19
Goodwill	0.00	0.00		0.00
Total	15509.49	4421.74	0.00	19931.23

Year 1

Amount in Rs. Crores

Asset Particulars	Opening Balance	Additions	Adjustment/De ductions	Closing Balance
TANGIBLE ASSETS:				
Land & land rights	18.00	17.30		35.30
Buildings	286.58	107.27		393.85
Other civil works	105.58	50.01		155.59
Plant & Machinery	0.00	0.00		0.00
Plant and Machinery - 33 kV	1313.06	612.57		1925.64
Plant and Machinery - 11 kV	9046.02	1479.21		10525.23
Plant and Machinery - LT	427.63	549.24		976.87
Metering Equipments	2044.54	1122.66		3167.20
Others	624.45	70.30		694.75
Line Cable Network	0.00	0.00		0.00
Line Cable Network - 33 kV	673.63	467.34		1140.97
Line Cable Network - 11 kV	2087.95	778.75		2866.70
Line Cable Network - LT	2976.94	752.36		3729.30
Others	0.00	0.00		0.00
Vehicles	5.11	0.24		5.36
Furniture & Fixtures	19.58	12.20		31.78
Office Equipment	87.48	45.70		133.18
Computers & IT Equipment	125.17	73.84		199.01
Low Value Assets	2.13	0.77		2.90
Merger Assets - Balance	39.20	0.00		39.20
INTANGIBLE ASSETS:	0.00	0.00		0.00
Software	48.19	10.28		58.47
Goodwill	0.00	0.00		0.00
Total	19931.23	6150.04	0.00	26081.27

Year 2

Amount in Rs. Crores

Asset Particulars	Opening Balance	Additions	Adjustment/De ductions	Closing Balance
TANGIBLE ASSETS:				
Land & land rights	35.30	25.07		60.37
Buildings	393.85	126.99		520.84
Other civil works	155.59	66.14		221.73
Plant & Machinery	0.00	0.00		0.00
Plant and Machinery - 33 kV	1925.64	765.86		2691.50
Plant and Machinery - 11 kV	10525.23	1444.00		11969.23
Plant and Machinery - LT	976.87	680.72		1657.59
Metering Equipments	3167.20	902.87		4070.07
Others	694.75	60.80		755.55
Line Cable Network	0.00	0.00		0.00
Line Cable Network - 33 kV	1140.97	673.21		1814.18
Line Cable Network - 11 kV	2866.70	1081.62		3948.32
Line Cable Network - LT	3729.30	906.22		4635.52
Others	0.00	0.00		0.00
Vehicles	5.36	0.12		5.48
Furniture & Fixtures	31.78	7.64		39.42
Office Equipment	133.18	35.87		169.05
Computers & IT Equipment	199.01	81.93		280.93
Low Value Assets	2.90	0.40		3.30
Merger Assets - Balance	39.20	0.00		39.20
INTANGIBLE ASSETS:	0.00	0.00		0.00
Software	58.47	5.25		63.72
Goodwill	0.00	0.00		0.00
Total	26081.27	6864.71	0.00	32945.98

Year 3

Amount in Rs. Crores

Asset Particulars	Opening Balance	Additions	Adjustment/De ductions	Closing Balance
TANGIBLE ASSETS:				
Land & land rights	60.37	37.10		97.47
Buildings	520.84	149.65		670.49
Other civil works	221.73	92.76		314.49
Plant & Machinery	0.00	0.00		0.00
Plant and Machinery - 33 kV	2691.50	784.51		3476.00
Plant and Machinery - 11 kV	11969.23	979.67		12948.90
Plant and Machinery - LT	1657.59	775.44		2433.03
Metering Equipments	4070.07	578.21		4648.28
Others	755.55	57.71		813.25
Line Cable Network	0.00	0.00		0.00
Line Cable Network - 33 kV	1814.18	673.77		2487.95
Line Cable Network - 11 kV	3948.32	1048.00		4996.32
Line Cable Network - LT	4635.52	746.01		5381.52
Others	0.00	0.00		0.00
Vehicles	5.48	0.00		5.48
Furniture & Fixtures	39.42	1.38		40.80
Office Equipment	169.05	20.44		189.49
Computers & IT Equipment	280.93	56.30		337.24
Low Value Assets	3.30	0.00		3.30
Merger Assets - Balance	39.20	0.00		39.20
INTANGIBLE ASSETS:	0.00	0.00		0.00
Software	63.72	0.00		63.72
Goodwill	0.00	0.00		0.00
Total	32945.98	6000.95	0.00	38946.93

Year 4

Amount in Rs. Crores

Asset Particulars	Opening Balance	Additions	Adjustment/De ductions	Closing Balance
TANGIBLE ASSETS:				
Land & land rights	97.47	30.88		128.35
Buildings	670.49	138.17		808.65
Other civil works	314.49	77.20		391.69
Plant & Machinery	0.00	0.00		0.00
Plant and Machinery - 33 kV	3476.00	666.22		4142.22
Plant and Machinery - 11 kV	12948.90	720.57		13669.47
Plant and Machinery - LT	2433.03	934.04		3367.07
Metering Equipments	4648.28	608.38		5256.66
Others	813.25	49.91		863.16
Line Cable Network	0.00	0.00		0.00
Line Cable Network - 33 kV	2487.95	519.23		3007.18
Line Cable Network - 11 kV	4996.32	780.16		5776.47
Line Cable Network - LT	5381.52	563.15		5944.67
Others	0.00	0.00		0.00
Vehicles	5.48	0.00		5.48
Furniture & Fixtures	40.80	0.00		40.80
Office Equipment	189.49	19.70		209.19
Computers & IT Equipment	337.24	40.57		377.81
Low Value Assets	3.30	0.00		3.30
Merger Assets - Balance	39.20	0.00		39.20
INTANGIBLE ASSETS:	0.00	0.00		0.00
Software	63.72	0.00		63.72
Goodwill	0.00	0.00		0.00
Total	38946.93	5148.17	0.00	44095.10

Year 5

Amount in Rs. Crores

Asset Particulars	Opening Balance	Additions	Adjustment/De ductions	Closing Balance
TANGIBLE ASSETS:				
Land & land rights	128.35	7.89		136.24
Buildings	808.65	72.61		881.26
Other civil works	391.69	19.73		411.42
Plant & Machinery		0.00		0.00
Plant and Machinery - 33 kV	4142.22	381.27		4523.49
Plant and Machinery - 11 kV	13669.47	406.97		14076.44
Plant and Machinery - LT	3367.07	937.26		4304.33
Metering Equipments	5256.66	527.20		5783.86
Others	863.16	14.31		877.47
Line Cable Network		0.00		0.00
Line Cable Network - 33 kV	3007.18	271.93		3279.11
Line Cable Network - 11 kV	5776.47	369.36		6145.83
Line Cable Network - LT	5944.67	351.48		6296.15
Others	0.00	0.00		0.00
Vehicles	5.48	0.00		5.48
Furniture & Fixtures	40.80	0.00		40.80
Office Equipment	209.19	19.73		228.93
Computers & IT Equipment	377.81	28.63		406.44
Low Value Assets	3.30	0.00		3.30
Merger Assets - Balance	39.20	0.00		39.20
INTANGIBLE ASSETS:	0.00	0.00		0.00
Software	63.72	0.00		63.72
Goodwill	0.00	0.00		0.00
Total	44095.10	3408.37	0.00	47503.47

ACCUMULATED DEPRECIATION

Please fill in the required details pertaining to each year

Base Year

(Rs. in crores)

Asset Particulars	Accu Dep OB	Balance of arrears of dep at the beginning of the year	Additions during the year				Withdrawals during the year	Accu Dep CB	Balance of arrears of dep at the end of the year
			Rate of Dep	Dep for the year	Arrears of dep written off during the year	Total			
TANGIBLE ASSETS:									
Land & land rights	0			0		0		0	
Buildings	66		3.02%	5		5		71	
Other civil works	16		3.02%	2		2		18	
Plant & Machinery				0					
Plant and Machinery - 33 kV	531		7.84%	47		47		578	
Plant and Machinery - 11 kV	3,546		7.84%	490		490		4,036	
Plant and Machinery - LT	20		7.84%	7		7		27	
Metering Equipments	685		12.77%	77		77		763	
Others	246			0		0		246	
Line Cable Network				0					
Line Cable Network - 33 kV	283		7.84%	13		13		295	
Line Cable Network - 11 kV	1,008		7.84%	71		71		1,079	
Line Cable Network - LT	1,689		7.84%	94		94		1,783	
Others	0			0		0		0	
Vehicles	4		33.40%	0		0		4	
Furniture & Fixtures	7		12.77%	0		0		7	
Office Equipment	34		12.77%	3		3		37	
Computers & IT Equipment	34		12.77%	6		6		40	
Low Value Assets	1			0		0		1	
Merger Assets - Balance	10			0		0		10	
INTANGIBLE ASSETS:				0					
Software	19		10.0%	3		3		22	
Goodwill	0			0		0		0	
Grand Total	8,199	0	1	819	0	819	0	9,018	0

Year 1

(Rs. in crores)

Asset Particulars	Accumulated Dep OB	Balance of arrears of depreciation at the beginning of the year	Additions during the year				Withdrawals during the year	Accumulated Dep CB	Balance of arrears of depreciation at the end of the year
			Rate of Dep	Dep for the year	Arrears of depreciation written off during the year	Total			
TANGIBLE ASSETS:									
Land & land rights	0		0.00%	0		0		0	
Buildings	71		3.02%	8		8		79	
Other civil works	18		3.02%	3		3		21	
Plant & Machinery				0					
Plant and Machinery - 33 kV	578		7.84%	77		77		655	
Plant and Machinery - 11 kV	4,036		7.84%	570		570		4,607	
Plant and Machinery - LT	27		7.84%	34		34		61	
Metering Equipments	763		12.77%	190		190		953	
Others	246		0.00%	0		0		246	
Line Cable Network				0					
Line Cable Network - 33 kV	295		7.84%	33		33		328	
Line Cable Network - 11 kV	1,079		7.84%	105		105		1,185	
Line Cable Network - LT	1,783		7.84%	125		125		1,908	
Others	0		0.00%	0		0		0	
Vehicles	4		33.40%	0		0		5	
Furniture & Fixtures	7		12.77%	2		2		9	
Office Equipment	37		12.77%	7		7		44	
Computers & IT Equipment	40		12.77%	12		12		52	
Low Value Assets	1		0.00%	0		0		1	
Merger Assets - Balance	10		0.00%	0		0		10	
INTANGIBLE ASSETS:				0					
Software	22		10.00%	3		3		25	
Goodwill	0		0.00%	0		0		0	
Grand Total	9,018	0	1	1,170	0	1,170	0	10,187	0

Year 2

(Rs. in crores)

Asset Particulars	Accumulated Dep OB	Balance of arrears of depreciation at the beginning of the year	Additions during the year				Withdrawals during the year	Accumulated Dep CB	Balance of arrears of depreciation at the end of the year
			Rate of Dep	Dep for the year	Arrears of depreciation written off during the year	Total			
TANGIBLE ASSETS:									
Land & land rights	0		0.00%	0		0		0	
Buildings	79		3.02%	11		11		90	
Other civil works	21		3.02%	5		5		26	
Plant & Machinery				0					
Plant and Machinery - 33 kV	655		7.84%	122		122		777	
Plant and Machinery - 11 kV	4,607		7.84%	673		673		5,279	
Plant and Machinery - LT	61		7.84%	77		77		137	
Metering Equipments	953		12.77%	322		322		1,274	
Others	246		0.00%	0		0		246	
Line Cable Network				0					
Line Cable Network - 33 kV	328		7.84%	69		69		397	
Line Cable Network - 11 kV	1,185		7.84%	163		163		1,347	
Line Cable Network - LT	1,908		7.84%	180		180		2,087	
Others	0		0.00%	0		0		0	
Vehicles	5		33.40%	0		0		5	
Furniture & Fixtures	9		12.77%	3		3		12	
Office Equipment	44		12.77%	13		13		57	
Computers & IT Equipment	52		12.77%	21		21		73	
Low Value Assets	1		0.00%	0		0		1	
Merger Assets - Balance	10		0.00%	0		0		10	
INTANGIBLE ASSETS:				0					
Software	25		10.00%	4		4		29	
Goodwill	0		0.00%	0		0		0	
Grand Total	10,187	0	1	1,661	0	1,661	0	11,849	0

Year 3

(Rs. in crores)

Asset Particulars	Accumulated Dep OB	Balance of arrears of depreciation at the beginning of the year	Additions during the year				Withdrawals during the year	Accumulated Dep CB	Balance of arrears of depreciation at the end of the year
			Rate of Dep	Dep for the year	Arrears of depreciation written off during the year	Total			
TANGIBLE ASSETS:									
Land & land rights	0		0.00%	0		0		0	
Buildings	90		3.02%	15		15		105	
Other civil works	26		3.02%	7		7		32	
Plant & Machinery				0					
Plant and Machinery - 33 kV	777		7.84%	176		176		953	
Plant and Machinery - 11 kV	5,279		7.84%	766		766		6,046	
Plant and Machinery - LT	137		7.84%	130		130		267	
Metering Equipments	1,274		12.77%	428		428		1,702	
Others	246		0.00%	0		0		246	
Line Cable Network				0					
Line Cable Network - 33 kV	397		7.84%	121		121		517	
Line Cable Network - 11 kV	1,347		7.84%	244		244		1,591	
Line Cable Network - LT	2,087		7.84%	243		243		2,330	
Others	0		0.00%	0		0		0	
Vehicles	5		33.40%	0		0		5	
Furniture & Fixtures	12		12.77%	4		4		16	
Office Equipment	57		12.77%	18		18		75	
Computers & IT Equipment	73		12.77%	32		32		105	
Low Value Assets	1		0.00%	0		0		1	
Merger Assets - Balance	10		0.00%	0		0		10	
INTANGIBLE ASSETS:				0					
Software	29		10.00%	4		4		33	
Goodwill	0		0.00%	0		0		0	
Grand Total	11,849	0	1	2,186	0	2,186	0	14,035	0

Year 4

(Rs. in crores)

Asset Particulars	Accumulated Dep OB	Balance of arrears of depreciation at the beginning of the year	Additions during the year				Withdrawals during the year	Accumulated Dep CB	Balance of arrears of depreciation at the end of the year
			Rate of Dep	Dep for the year	Arrears of depreciation written off during the year	Total			
TANGIBLE ASSETS:									
Land & land rights	0		0.00%	0		0		0	
Buildings	105		3.02%	19		19		125	
Other civil works	32		3.02%	9		9		42	
Plant & Machinery				0					
Plant and Machinery - 33 kV	953		7.84%	229		229		1,182	
Plant and Machinery - 11 kV	6,046		7.84%	800		800		6,846	
Plant and Machinery - LT	267		7.84%	191		191		458	
Metering Equipments	1,702		12.77%	489		489		2,192	
Others	246		0.00%	0		0		246	
Line Cable Network				0					
Line Cable Network - 33 kV	517		7.84%	173		173		690	
Line Cable Network - 11 kV	1,591		7.84%	318		318		1,909	
Line Cable Network - LT	2,330		7.84%	290		290		2,621	
Others	0		0.00%	0		0		0	
Vehicles	5		33.40%	0		0		5	
Furniture & Fixtures	16		12.77%	4		4		20	
Office Equipment	75		12.77%	19		19		94	
Computers & IT Equipment	105		12.77%	38		38		143	
Low Value Assets	1		0.00%	0		0		1	
Merger Assets - Balance	10		0.00%	0		0		10	
INTANGIBLE ASSETS:				0					
Software	33		10.00%	4		4		37	
Goodwill	0		0.00%	0		0		0	
Grand Total	14,035	0	1	2,583	0	2,583	0	16,618	0

Year 5

(Rs. in crores)

Asset Particulars	Accumulated Dep OB	Balance of arrears of depreciation at the beginning of the year	Additions during the year				Withdrawals during the year	Accumulated Dep CB	Balance of arrears of depreciation at the end of the year
			Rate of Dep	Dep for the year	Arrears of depreciation written off during the year	Total			
TANGIBLE ASSETS:									
Land & land rights	0		0.00%	0		0		0	
Buildings	125		3.02%	24		24		148	
Other civil works	42		3.02%	12		12		54	
Plant & Machinery				0					
Plant and Machinery - 33 kV	1,182		7.84%	279		279		1,460	
Plant and Machinery - 11 kV	6,846		7.84%	820		820		7,665	
Plant and Machinery - LT	458		7.84%	264		264		722	
Metering Equipments	2,192		12.77%	559		559		2,751	
Others	246		0.00%	0		0		246	
Line Cable Network				0					
Line Cable Network - 33 kV	690		7.84%	212		212		902	
Line Cable Network - 11 kV	1,909		7.84%	369		369		2,277	
Line Cable Network - LT	2,621		7.84%	325		325		2,945	
Others	0		0.00%	0		0		0	
Vehicles	5		33.40%	0		0		5	
Furniture & Fixtures	20		12.77%	4		4		24	
Office Equipment	94		12.77%	21		21		115	
Computers & IT Equipment	143		12.77%	43		43		186	
Low Value Assets	1		0.00%	0		0		1	
Merger Assets - Balance	10		0.00%	0		0		10	
INTANGIBLE ASSETS:				0					
Software	37		10.00%	3		3		39	
Goodwill	0		0.00%	0		0		0	
Grand Total	16,618	0	1	2,934	0	2,934	0	19,552	0

Form 1.1 c - Capital Work in Progress

This form pertains to the Capital Work in Progress

Particulars						
	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Opening balance of CWIP	3,067.26	5,366.84	4,492.27	4,321.97	3,180.02	1,379.85
Add: New Investment*	5,877.50	4,505.57	5,701.48	4,079.49	2,759.75	3,041.47
Add: Capitalisation*						
Expenses Capitalised	646.52	495.61	627.16	448.74	303.57	334.56
Interest During Construction	197.30	274.28	365.77	330.75	284.68	173.20
Total expenses capitalised	843.83	769.89	992.93	779.50	588.26	507.76
Less : Investment Capitalised	4,421.74	6,150.04	6,864.71	6,000.95	5,148.17	3,408.37
Closing balance of CWIP	5,366.84	4,492.27	4,321.97	3,180.02	1,379.85	1,520.71

*To be filled in consultation with form 1.1 d

INVESTMENT PLAN

Base Year FY2023-24

Project Details					PLANNED CAPITAL EXPENDITURE						
Project Code*	Project Title	Project Start Date (DD-MON-YY)	Project Completion date (DD-MON-YY)	Base Cost	Contingency	IDC	Duties	Taxes	Expense capitalised	TOTAL COST	
1	HVDS	8/22/2015	3/31/2024	1370	66	118	0	394	241	2189	
2	9Hrs. Agl	12/23/2019	3/31/2024	390	19	34	0	112	69	623	
3	Smart City	4/1/2018	12/31/2023	74	3	0	0	20	12	109	
4	WB Smart City	4/1/2020	12/31/2023	74	4	6	0	21	13	118	
5	SCADA (WB)	12/5/2021	12/31/2023	43	2	4	0	12	7	68	
6	Agl DBT	2/4/2023	8/31/2031	2766	122	0	0	732	447	4067	
7	Jagananna Housing Colonies	10/21/2022	10/31/2024	928	44	80	0	267	163	1483	
8	RDSS Ph-I (Loss Reduction)	3/17/2022	3/31/2026	3230	155	279	0	929	568	5160	
9	RDSS Ph-I (Smart Meters)	3/17/2022	3/31/2033	537	24	0	0	142	87	790	
10	RDSS Ph-II (Smart Meters)	4/1/2024	3/31/2033	144	6	0	0	38	23	211	
11	RDSS Ph-II (Modernisation) (To be sanctioned)	3/31/2024	3/31/2026	1726	83	149	0	496	303	2757	
12	Capex towards Substations	New	New	167	8	14	0	48	29	267.46	
13	Capex towards augmentation of PTRs	New	New	71	3	6	0	20	12	113.61	
14	Capex towards DTRs	New	New	507	24	44	0	146	89	809.99	
15	Capex towards Lines	New	New	365	17	31	0	105	64	582.66	
16	Metering & Associated Equipment	New	New	66	3	6	0	19	12	105.03	
17	Technology upgradation and R&M	New	New	119	6	10	0	34	21	190.00	
18	Civil Infrastructure Development & Others	New	New	21	1	2	0	6	4	33.00	
Total				12598	590	783	0	3541	2164	19677	

Year 1

Project Details					PLANNED CAPITAL EXPENDITURE						
Project Code*	Project Title	Project Start Date (DD-MON-YY)	Project Completion date (DD-MON-YY)	Base Cost	Contingency	IDC	Duties	Taxes	Expense capitalised	TOTAL COST	
1	HVDS	8/22/2015	3/31/2024	1370	66	118	0	394	241	2189	
2	9Hrs. Agl	12/23/2019	3/31/2024	390	19	34	0	112	69	623	
3	Smart City	4/1/2018	12/31/2023	74	3	0	0	20	12	109	
4	WB Smart City	4/1/2020	12/31/2023	74	4	6	0	21	13	118	
5	SCADA (WB)	12/5/2021	12/31/2023	43	2	4	0	12	7	68	
6	Agl DBT	2/4/2023	8/31/2031	2766	122	0	0	732	447	4067	
7	Jagananna Housing Colonies	10/21/2022	10/31/2024	928	44	80	0	267	163	1483	
8	RDSS Ph-I (Loss Reduction)	3/17/2022	3/31/2026	3230	155	279	0	929	568	5160	
9	RDSS Ph-I (Smart Meters)	3/17/2022	3/31/2033	537	24	0	0	142	87	790	
10	RDSS Ph-II (Smart Meters)	4/1/2024	3/31/2033	144	6	0	0	38	23	211	
11	RDSS Ph-II (Modernisation) (To be sanctioned)	3/31/2024	3/31/2026	1726	83	149	0	496	303	2757	
12	Capex towards Substations	New	New	168	8	14	0	48	29	267.61	
13	Capex towards augmentation of PTRs	New	New	71	3	6	0	20	13	113.67	
14	Capex towards DTRs	New	New	403	19	35	0	116	71	643.81	
15	Capex towards Lines	New	New	303	15	26	0	87	53	483.56	
16	Metering & Associated Equipment	New	New	71	3	6	0	20	12	112.71	
17	Technology upgradation and R&M	New	New	126	6	11	0	36	22	200.77	
18	Civil Infrastructure Development & Others	New	New	28	1	2	0	8	5	45.00	
Total				12452	583	770	0	3498	2138	19442	

Year 2

Project Details					PLANNED CAPITAL EXPENDITURE						
Project Code*	Project Title		Project Start Date (DD-MON-YY)	Project Completion date (DD-MON-YY)	Base Cost	Contingency	IDC	Duties	Taxes	Expense capitalised	TOTAL COST
1	HVDS		8/22/2015	3/31/2024	1370	66	118	0	394	241	2189
2	9Hrs. Agl		12/23/2019	3/31/2024	390	19	34	0	112	69	623
3	Smart City		4/1/2018	12/31/2023	74	3	0	0	20	12	109
4	WB Smart City		4/1/2020	12/31/2023	74	4	6	0	21	13	118
5	SCADA (WB)		12/5/2021	12/31/2023	43	2	4	0	12	7	68
6	Agl DBT		2/4/2023	8/31/2031	2766	122	0	0	732	447	4067
7	Jagananna Housing Colonies		10/21/2022	10/31/2024	928	44	80	0	267	163	1483
8	RDSS Ph-I (Loss Reduction)		3/17/2022	3/31/2026	3230	155	279	0	929	568	5160
9	RDSS Ph-I (Smart Meters)		3/17/2022	3/31/2033	537	24	0	0	142	87	790
10	RDSS Ph-II (Smart Meters)		4/1/2024	3/31/2033	144	6	0	0	38	23	211
11	RDSS Ph-II (Modernisation) (To be sanctioned)		3/31/2024	3/31/2026	1726	83	149	0	496	303	2757
12	Capex towards Substations		New	New	157	8	14	0	45	28	251.04
13	Capex towards augmentation of PTRs		New	New	67	3	6	0	19	12	106.63
14	Capex towards DTRs		New	New	468	22	40	0	134	82	746.90
15	Capex towards Lines		New	New	334	16	29	0	96	59	533.53
16	Metering & Associated Equipment		New	New	72	3	6	0	21	13	114.49
17	Technology upgradation and R&M		New	New	133	6	11	0	38	23	212.16
18	Civil Infrastructure Development & Others		New	New	28	1	2	0	8	5	45.00
Total					12541	587	778	0	3524	2155	19585

Year 3

Project Details					PLANNED CAPITAL EXPENDITURE						
Project Code*	Project Title		Project Start Date (DD-MON-YY)	Project Completion date (DD-MON-YY)	Base Cost	Contingency	IDC	Duties	Taxes	Expense capitalised	TOTAL COST
1	HVDS		8/22/2015	3/31/2024	1370	66	118	0	394	241	2189
2	9Hrs. Agl		12/23/2019	3/31/2024	390	19	34	0	112	69	623
3	Smart City		4/1/2018	12/31/2023	74	3	0	0	20	12	109
4	WB Smart City		4/1/2020	12/31/2023	74	4	6	0	21	13	118
5	SCADA (WB)		12/5/2021	12/31/2023	43	2	4	0	12	7	68
6	Agl DBT		2/4/2023	8/31/2031	2766	122	0	0	732	447	4067
7	Jagananna Housing Colonies		10/21/2022	10/31/2024	928	44	80	0	267	163	1483
8	RDSS Ph-I (Loss Reduction)		3/17/2022	3/31/2026	3230	155	279	0	929	568	5160
9	RDSS Ph-I (Smart Meters)		3/17/2022	3/31/2033	537	24	0	0	142	87	790
10	RDSS Ph-II (Smart Meters)		4/1/2024	3/31/2033	144	6	0	0	38	23	211
11	RDSS Ph-II (Modernisation) (To be sanctioned)		3/31/2024	3/31/2026	1726	83	149	0	496	303	2757
12	Capex towards Substations		New	New	178	9	15	0	51	31	283.57
13	Capex towards augmentation of PTRs		New	New	75	4	7	0	22	13	120.45
14	Capex towards DTRs		New	New	521	25	45	0	150	91	831.74
15	Capex towards Lines		New	New	373	18	32	0	107	66	596.20
16	Metering & Associated Equipment		New	New	73	3	6	0	21	13	116.35
17	Technology upgradation and R&M		New	New	140	7	12	0	40	25	224.19
18	Civil Infrastructure Development & Others		New	New	28	1	2	0	8	5	45.00
Total					12670	595	789	0	3562	2177	19792

Year 4

Project Details					PLANNED CAPITAL EXPENDITURE						
Project Code*	Project Title		Project Start Date (DD-MON-YY)	Project Completion date (DD-MON-YY)	Base Cost	Contingency	IDC	Duties	Taxes	Expense capitalised	TOTAL COST
2	9Hrs. Agl		12/23/2019	3/31/2024	390	19	34	0	112	69	623
3	Smart City		4/1/2018	12/31/2023	74	3	0	0	20	12	109
4	WB Smart City		4/1/2020	12/31/2023	74	4	6	0	21	13	118
5	SCADA (WB)		12/5/2021	12/31/2023	43	2	4	0	12	7	68
6	Agl DBT		2/4/2023	8/31/2031	2766	122	0	0	732	447	4067
7	Jagananna Housing Colonies		10/21/2022	10/31/2024	928	44	80	0	267	163	1483
8	RDSS Ph-I (Loss Reduction)		3/17/2022	3/31/2026	3230	155	279	0	929	568	5160
9	RDSS Ph-I (Smart Meters)		3/17/2022	3/31/2033	537	24	0	0	142	87	790
10	RDSS Ph-II (Smart Meters)		4/1/2024	3/31/2033	144	6	0	0	38	23	211
11	RDSS Ph-II (Modernisation) (To be sanctioned)		3/31/2024	3/31/2026	1726	83	149	0	496	303	2757
12	Capex towards Substations		New	New	197.00	9.00	17.00	0.00	57.00	35.00	314
13	Capex towards augmentation of PTRs		New	New	84.00	4.00	7.00	0.00	24.00	15.00	133
14	Capex towards DTRs		New	New	587.00	28.00	51.00	0.00	169.00	103.00	938
15	Capex towards Lines		New	New	419.00	20.00	36.00	0.00	120.00	74.00	669
16	Metering & Associated Equipment		New	New	74.00	4.00	6.00	0.00	21.00	13.00	118
17	Technology upgradation and R&M		New	New	148.00	7.00	13.00	0.00	43.00	26.00	237
18	Civil Infrastructure Development & Others		New	New	28.00	1.00	2.00	0.00	8.00	5.00	45
Total					12819	601	802	0	3605	2204	20030

Year 5

Project Details					PLANNED CAPITAL EXPENDITURE						
Project Code*	Project Title		Project Start Date (DD-MON-YY)	Project Completion date (DD-MON-YY)	Base Cost	Contingency	IDC	Duties	Taxes	Expense capitalised	TOTAL COST
2	9Hrs. Agl		12/23/2019	3/31/2024	390	19	34	0	112	69	623
3	Smart City		4/1/2018	12/31/2023	74	3	0	0	20	12	109
4	WB Smart City		4/1/2020	12/31/2023	74	4	6	0	21	13	118
5	SCADA (WB)		12/5/2021	12/31/2023	43	2	4	0	12	7	68
6	Agl DBT		2/4/2023	8/31/2031	2766	122	0	0	732	447	4067
7	Jagananna Housing Colonies		10/21/2022	10/31/2024	928	44	80	0	267	163	1483
8	RDSS Ph-I (Loss Reduction)		3/17/2022	3/31/2026	3230	155	279	0	929	568	5160
9	RDSS Ph-I (Smart Meters)		3/17/2022	3/31/2033	537	24	0	0	142	87	790
10	RDSS Ph-II (Smart Meters)		4/1/2024	3/31/2033	144	6	0	0	38	23	211
11	RDSS Ph-II (Modernisation) (To be sanctioned)		3/31/2024	3/31/2026	1726	83	149	0	496	303	2757
12	Capex towards Substations		New	New	224.00	11.00	19.00	0.00	64.00	39.00	357
13	Capex towards augmentation of PTRs		New	New	95.00	5.00	8.00	0.00	27.00	17.00	152
14	Capex towards DTRs		New	New	661.00	32.00	57.00	0.00	190.00	116.00	1056
15	Capex towards Lines		New	New	473.00	23.00	41.00	0.00	136.00	83.00	755
16	Metering & Associated Equipment		New	New	75.00	4.00	6.00	0.00	22.00	13.00	120
17	Technology upgradation and R&M		New	New	157.00	8.00	14.00	0.00	45.00	28.00	250
18	Civil Infrastructure Development & Others		New	New	28.00	1.00	2.00	0.00	8.00	5.00	45
Total					12995	612	817	0	3655	2234	20311

88.00 232.00

Internal Accrual Component of capex in year	Equity Component of capex in year	SOURCE OF FINANCING					Investments proposed for the year				Investments incurred in the year				Cumulative progress (Year on year)			
		Debt Component of capex					Annual				Annual				Actual investment upto the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation
		Loan Amount	Interest Rate	Moratorium Period	Total Repayment Period	Loan Source	Proposed investment in the year (Rs Cr)	Proposed IDC	Proposed other expense	% capitalisation	Actual investment in the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation				
219.00		1970	11%	3 Years	15 Years	REC	101.00	5.05	11.11	20%	101.00	5.05	11.11	20.00%	2189.00	109.45	240.79	75%
62.00		561	11%	2 Years	12 Years	REC	110.00	5.50	12.10	20%	110.00	5.50	12.10	20.00%	623.00	31.15	68.53	75%
13.00		0					12.00	0.00	1.32	20%	12.00	0.00	1.32	20.00%	109.00	0.00	11.99	75%
4.00		82	2%	5.00	19.00	WB	19.00	0.95	2.09	20%	19.00	0.95	2.09	20.00%	118.00	5.90	12.98	75%
2.00		48	2%	5.00	19.00	WB	30.00	1.50	3.30	20%	30.00	1.50	3.30	20.00%	68.00	3.40	7.48	75%
0.00							1458.00	0.00	160.38	20%	1458.00	0.00	160.38	20.00%	1458.00	0.00	160.38	20%
193		1290	10%	2.5 Years	17.5 Years	PFC	912.00	45.60	100.32	20%	912.00	45.60	100.32	20.00%	1183.00	59.15	130.13	50%
671		2064	10.75%	3 Years	18 Years	PFC	1000.00	50.00	110.00	20%	1000.00	50.00	110.00	20.00%	1000.00	50.00	110.00	20%
103		0					134.00	0.00	14.74	20%	134.00	0.00	14.74	20.00%	90.00	0.00	9.90	20%
27		0					0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	0.00	0.00	0.00	20%
358		1103	10.75%	2 Years	17 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	0.00	0.00	0.00	20%
35		107	11%				267.46	11.20	29.52	20%	267.46	11.20	29.52	20.00%	267.46	13.37	29.42	20%
15		45	11%				113.61	4.76	12.54	20%	113.61	4.76	12.54	20.00%	113.61	5.68	12.50	20%
105		324	11%				809.99	33.91	89.41	20%	809.99	33.91	89.41	20.00%	809.99	40.50	89.10	20%
76		233	11%				582.66	24.40	64.32	20%	582.66	24.40	64.32	20.00%	582.66	29.13	64.09	20%
14		42	11%				105.03	4.40	11.59	20%	105.03	4.40	11.59	20.00%	105.03	5.25	11.55	20%
25		76	11%				190.00	7.96	20.97	20%	190.00	7.96	20.97	20.00%	190.00	9.50	20.90	20%
4		13	11%				33.00	1.38	3.64	20%	33.00	1.38	3.64	20.00%	33.00	1.65	3.63	20%
1926	0	7958	1	10	38	0	5878	197	647	4	5878	197	647	4	8940	364	983	20%

Internal Accrual Component of capex in year	Equity Component of capex in year	SOURCE OF FINANCING					Investments proposed for the year				Investments incurred in the year				Cumulative progress (Year on year)			
		Debt Component of capex					Annual				Annual				Actual investment upto the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation
		Loan Amount	Interest Rate	Moratorium Period	Total Repayment Period	Loan Source	Proposed investment in the year (Rs Cr)	Proposed IDC	Proposed other expense	% capitalisation	Actual investment in the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation				
219.00		1970	11%	3 Years	15 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	2189.00	109.45	240.79	100%
62.00		561	11%	2 Years	12 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	623.00	31.15	68.53	100%
13.00		0					0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	109.00	0.00	11.99	100%
4.00		82	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	118.00	5.90	12.98	100%
2.00		48	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	68.00	3.40	7.48	100%
0.00							305.00	0.00	33.55	20%	305.00	0.00	33.55	20.00%	1763.00	0.00	193.93	40%
193		1290	10%	2.5 Years	17.5 Years	PFC	300.00	15.00	33.00	20%	300.00	15.00	33.00	20.00%	1483.00	74.15	163.13	75%
671		2064	10.75%	3 Years	18 Years	PFC	2000.00	100.00	220.00	20%	2000.00	100.00	220.00	20.00%	3000.00	150.00	330.00	40%
103		0					28.00	0.00	3.08	20%	28.00	0.00	3.08	20.00%	118.00	5.90	12.98	40%
27		0					5.00	0.00	0.00	20%	5.00	0.00	0.00	20.00%	5.00	0.25	0.55	40%
358		1103	10.75%	2 Years	17 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	0.00	0.00	0.00	40%
35		107	11%				267.61	22.79	29.52	20%	267.61	22.79	29.52	20.00%	535.07	26.75	58.86	40%
15		45	11%				113.67	9.68	12.54	20%	113.67	9.68	12.54	20.00%	227.28	11.36	25.00	40%
84		258	11%				643.81	54.83	71.03	20%	643.81	54.83	71.03	20.00%	1453.81	72.69	159.92	40%
63		193	11%				483.56	41.18	53.35	20%	483.56	41.18	53.35	20.00%	1066.22	53.31	117.28	40%
15		45	11%				112.71	9.60	12.44	20%	112.71	9.60	12.44	20.00%	217.74	10.89	23.95	40%
26		80	11%				200.77	17.10	22.15	20%	200.77	17.10	22.15	20.00%	390.77	19.54	42.99	40%
6		18	11%				45.00	3.83	4.96	20%	45.00	3.83	4.96	20.00%	78.00	3.90	8.58	40%
1896	0	7864	1	10	38	0	4505	274	496	3	4505	274	496	3	13445	579	1479	40%

Internal Accrual Component of capex in year	Equity Component of capex in year	SOURCE OF FINANCING					Investments proposed for the year				Investments incurred in the year				Cumulative progress (Year on year)			
		Debt Component of capex					Annual				Annual							
		Loan Amount	Interest Rate	Moratorium Period	Total Repayment Period	Loan Source	Proposed investment in the year (Rs Cr)	Proposed IDC	Proposed other expense	% capitalisation	Actual investment in the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation	Actual investment upto the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation
219.00		1970	11%	3 Years	15 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	2189.00	109.45	240.79	100%
62.00		561	11%	2 Years	12 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	623.00	31.15	68.53	100%
13.00		0					0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	109.00	0.00	11.99	100%
4.00		82	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	118.00	5.90	12.98	100%
2.00		48	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	68.00	3.40	7.48	100%
0.00							305.00	0.00	33.55	20%	305.00	0.00	33.55	20.00%	2068.00	0.00	227.48	70%
193		1290	10%	2.5 Years	17.5 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	1483.00	74.15	163.13	100%
0.00		2064	10.75%	3 Years	18 Years	PFC	2160.00	108.00	237.60	20%	2160.00	108.00	237.60	30.00%	5160.00	258.00	567.60	70%
0.00		0						0.00	0.00	20%	0.00	0.00	0.00	20.00%	118.00	5.90	12.98	60%
0.00		0					27.00	0.00	0.00	20%	27.00	0.00	0.00	20.00%	32.00	1.60	3.52	60%
0.00		1103	10.75%	2 Years	17 Years	PFC	1200.00	0.00	0.00	20%	1200.00	0.00	0.00	20.00%	1200.00	60.00	132.00	60%
0.00		100	11%				251.04	32.23	44.47	20%	251.04	32.23	44.47	20.00%	786.11	39.31	86.47	60%
0.00		43	11%				106.63	13.69	18.89	20%	106.63	13.69	18.89	20.00%	333.91	16.70	36.73	60%
0.00		299	11%				746.90	95.88	132.30	20%	746.90	95.88	132.30	20.00%	2200.71	110.04	242.08	60%
0.00		213	11%				533.53	68.49	94.51	20%	533.53	68.49	94.51	20.00%	1599.75	79.99	175.97	60%
0.00		46	11%				114.49	14.70	20.28	20%	114.49	14.70	20.28	20.00%	332.23	16.61	36.54	60%
0.00		85	11%				212.16	27.24	37.58	20%	212.16	27.24	37.58	20.00%	602.93	30.15	66.32	60%
0.00		18	11%				45.00	5.78	7.97	20%	45.00	5.78	7.97	20.00%	123.00	6.15	13.53	60%
493	0	7922	1	10	38	0	5702	366	627	3	5702	366	627	3	19147	848	2106	

Internal Accrual Component of capex in year	Equity Component of capex in year	SOURCE OF FINANCING					Investments proposed for the year				Investments incurred in the year				Cumulative progress (Year on year)			
		Debt Component of capex					Annual				Annual							
		Loan Amount	Interest Rate	Moratorium Period	Total Repayment Period	Loan Source	Proposed investment in the year (Rs Cr)	Proposed IDC	Proposed other expense	% capitalisation	Actual investment in the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation	Actual investment upto the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation
219.00		1970	11%	3 Years	15 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	2189.00	109.45	240.79	100%
62.00		561	11%	2 Years	12 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	623.00	31.15	68.53	100%
13.00		0					0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	109.00	0.00	11.99	100%
4.00		82	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	118.00	5.90	12.98	100%
2.00		48	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	68.00	3.40	7.48	100%
0.00							305.00	0.00	33.55	20%	305.00	0.00	33.55	20.00%	2373.00	0.00	261.03	80%
193		1290	10%	2.5 Years	17.5 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	1483.00	74.15	163.13	100%
0.00		2064	10.75%	3 Years	18 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	30.00%	5160.00	258.00	567.60	100%
0.00		0						0.00	0.00	20%	0.00	0.00	0.00	20.00%	118.00	5.90	12.98	20%
0.00		0						0.00	0.00	20%	0.00	0.00	0.00	20.00%	32.00	1.60	3.52	80%
0.00		1103	10.75%	2 Years	17 Years	PFC	1557.00	0.00	0.00	20%	1557.00	0.00	0.00	20.00%	2757.00	137.85	303.27	80%
0.00			11%				283.57	42.33	53.07	20%	283.57	0.00	53.07	20.00%	1069.67	53.48	117.66	80%
0.00			11%				120.45	17.98	22.54	20%	120.45	0.00	22.54	20.00%	454.36	22.72	49.98	80%
0.00			11%				831.74	124.15	155.66	20%	831.74	0.00	155.66	20.00%	3032.45	151.62	333.57	80%
0.00			11%				596.20	88.99	111.58	20%	596.20	0.00	111.58	20.00%	2195.95	109.80	241.55	80%
0.00			11%				116.35	17.37	21.77	20%	116.35	0.00	21.77	20.00%	448.58	22.43	49.34	80%
0.00			11%				224.19	33.46	41.96	20%	224.19	0.00	41.96	20.00%	827.12	41.36	90.98	80%
0.00			11%				45.00	6.72	8.42	20%	45.00	0.00	8.42	20.00%	168.00	8.40	18.48	80%
493	0	7118	1	10	38	0	4079	331	449	3	4079	0	449	3	23226	1037	2555	

Internal Accrual Component of capex in year	Equity Component of capex in year	SOURCE OF FINANCING					Investments proposed for the year				Investments incurred in the year				Cumulative progress (Year on year)			
		Debt Component of capex					Annual				Annual							
		Loan Amount	Interest Rate	Moratorium Period	Total Repayment Period	Loan Source	Proposed investment in the year (Rs Cr)	Proposed IDC	Proposed other expense	% capitalisation	Actual investment in the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation	Actual investment upto the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation
219.00		1970	11%	3 Years	15 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	2189.00	109.45	240.79	100%
62.00		561	11%	2 Years	12 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	623.00	31.15	68.53	100%
13.00		0					0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	109.00	0.00	11.99	100%
4.00		82	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	118.00	5.90	12.98	100%
2.00		48	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	68.00	3.40	7.48	100%
0.00							305.00	0.00	33.55	20%	305.00	0.00	33.55	20.00%	2678.00	0.00	294.58	80%
193		1290	10%	2.5 Years	17.5 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	1483.00	74.15	163.13	100%
0.00		2064	10.75%	3 Years	18 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	30.00%	5160.00	258.00	567.60	100%
0.00		0					0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	118.00	5.90	12.98	50%
0.00		0					0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	32.00	1.60	3.52	0.00
0.00		1103	10.75%	2 Years	17 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	2757.00	137.85	303.27	0.00
			11%				314.15	36.47	34.55	20%	314.15	0.00	34.55	20.00%	1383.82	69.19	152.22	100%
			11%				133.44	15.49	14.68	20%	133.44	0.00	14.68	20.00%	587.79	29.39	64.66	100%
			11%				937.79	108.88	103.15	20%	937.79	0.00	103.15	20.00%	3970.23	198.51	436.73	100%
			11%				669.19	77.69	73.60	20%	669.19	0.00	73.60	20.00%	2865.14	143.26	315.17	100%
			11%				118.29	13.73	13.01	20%	118.29	0.00	13.01	20.00%	566.87	28.34	62.36	100%
			11%				236.90	27.50	26.06	20%	236.90	0.00	26.06	20.00%	1064.01	53.20	117.04	100%
			11%				45.00	5.22	4.95	20%	45.00	0.00	4.95	20.00%	213.00	10.65	23.43	100%
493	0	7118	1	10	38	0	2760	285	304	3	2760	0	304	3	25986	1160	2858	100%

Internal Accrual Component of capex in year	Equity Component of capex in year	SOURCE OF FINANCING					Investments proposed for the year				Investments incurred in the year				Cumulative progress (Year on year)			
		Debt Component of capex					Annual				Annual							
		Loan Amount	Interest Rate	Moratorium Period	Total Repayment Period	Loan Source	Proposed investment in the year (Rs Cr)	Proposed IDC	Proposed other expense	% capitalisation	Actual investment in the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation	Actual investment upto the year (Rs Cr)	IDC Incurred	Other expense incurred	% capitalisation
219.00		1970	11%	3 Years	15 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	2189.00	109.45	240.79	100%
62.00		561	11%	2 Years	12 Years	REC	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	2189.00	109.45	240.79	100%
13.00		0					0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	623.00	0.00	68.53	100%
4.00		82	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	109.00	5.45	11.99	100%
2.00		48	2%	5.00	19.00	WB	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0%
0.00							305.00	0.00	33.55	20%	305.00	0.00	33.55	20.00%	305.00	0.00	33.55	80%
193		1290	10%	2.5 Years	17.5 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	2678.00	133.90	294.58	100%
0.00		2064	10.75%	3 Years	18 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	30.00%	1483.00	74.15	163.13	100%
0.00		0					0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	5160.00	258.00	567.60	50%
0.00		0					0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	118.00	5.90	12.98	100%
0.00		1103	10.75%	2 Years	17 Years	PFC	0.00	0.00	0.00	20%	0.00	0.00	0.00	20.00%	32.00	1.60	3.52	100%
			11%				357.49	22.60	39.32	20%	357.49	0.00	39.32	20.00%	3114.49	155.72	342.59	100%
			11%				151.85	9.60	16.70	20%	151.85	0.00	16.70	20.00%	1535.67	76.78	168.92	100%
			11%				1056.30	66.78	116.19	20%	1056.30	0.00	116.19	20.00%	1644.09	82.20	180.85	100%
			11%				755.19	47.74	83.07	20%	755.19	0.00	83.07	20.00%	4725.42	236.27	519.80	100%
			11%				120.31	7.61	13.23	20%	120.31	0.00	13.23	20.00%	2985.45	149.27	328.40	100%
			11%				250.33	15.83	27.54	20%	250.33	0.00	27.54	20.00%	817.20	40.86	89.89	100%
			11%				45.00	2.84	4.95	20%	45.00	0.00	4.95	20.00%	1109.01	55.45	121.99	100%
493	0	7118	1	10	38	0	3041	173	335	3	3041	0	335	3	30817	1494	3390	100%

Form 1.1(e) - Voltage wise asset base

This form refers to the gross and net asset base calculation

Particulars	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Gross Fixed Assets	19931.23	26081.27	32945.98	38946.93	44095.10	47503.47
33 kV	2396.17	3778.98	5556.30	7321.90	8779.71	9596.04
11 kV	13428.78	16502.88	19629.17	22031.18	23880.27	24870.40
LT	4106.28	5799.41	7760.51	9593.85	11435.12	13037.02
Accumulated Depreciation	9017.86	10187.38	11848.76	14034.90	16618.22	19552.44
33 kV	1084.15	1476.08	1998.28	2638.52	3308.83	3949.73
11 kV	6075.83	6446.05	7059.47	7939.15	8999.81	10236.67
LT	1857.88	2265.26	2791.01	3457.24	4309.58	5366.04
Net Fixed Assets	10913.38	15893.89	21097.22	24912.03	27476.89	27951.03
33 kV	1312.03	2302.91	3558.02	4683.38	5470.88	5646.31
11 kV	7352.95	10056.83	12569.69	14092.03	14880.46	14633.74
LT	2248.40	3534.15	4969.51	6136.61	7125.54	7670.98

Form1.1 g(i) - New Loans

Please fill in the required details pertaining to each year

Base Year

Amount in Rs. Crores

Particulars	Amount	Purpose	Status	Agency	Agreed Interest Rate	Moratorium Period (Years)	Repayment period (Years)
Infrastructure for release of Agl Services (REC)	310.00	Release of new Agl Services	Loan sanctioned. To be documented	REC	0.11	3.00	10
Erection of Sub-Stations (REC)	52.00	Erection of Sub-Stations	Loan sanctioned. To be documented	REC	0.11	3.00	10
Erection of interlinking lines (REC)	19.00	Erection of interlinking lines	Loan sanctioned. To be documented	REC	0.11	3.00	10
RDSS Ph-I (Loss Reduction)- Counterpart funding	400.00	Segregation of Agl feeders & Bifurcation of 33KV overloaded feeders	Scheme sanctioned by MoP for Grant. Counterpart loan sanction awaited.	PFC	0.1075	3.00	15
For funding Base Investment and Normal Works	765.44				0.11		
Total	1546.44				0.109353353		

Year 1

Amount in Rs. Crores

Particulars	Amount	Purpose	Status	Agency	Agreed Interest Rate	Moratorium Period (Years)	Repayment period (Years)
Infrastructure for release of Agl Services (REC)	315.00	Release of new Agl Services	Loan sanctioned. To be documented	REC	0.11	3.00	10
Erection of Sub-Stations (REC)	131.00	Erection of Sub-Stations	Loan sanctioned. To be documented	REC	0.11	3.00	10
Erection of interlinking lines (REC)	49.00	Erection of interlinking lines	Loan sanctioned. To be documented	REC	0.11	3.00	10
RDSS Ph-I (Loss Reduction)- Counterpart funding	800.00	Segregation of Agl feeders & Bifurcation of 33KV overloaded feeders	Scheme sanctioned by MoP for Grant. Counterpart loan sanction awaited.	PFC	0.1075	3.00	15
Bulk schemes for procurement of DTR, PTRs, VCBs etc	150.00	Procurement of DTR, PTRs, VCBs etc	DPRs to be formulated	REC	0.11	3.00	10
For funding Base Investment and Normal Works	575.30				0.11		
Total	2020.30				0.109010049		

Year 2

Amount in Rs. Crores

Particulars	Amount	Purpose	Status	Agency	Agreed Interest Rate	Moratorium Period (Years)	Repayment period (Years)
Infrastructure for release of Agl Services (REC)	315.00	Release of new Agl Services	Loan sanctioned. To be documented	REC	0.11	3.00	10
Erection of Sub-Stations (REC)	78.00	Erection of Sub-Stations	Loan sanctioned. To be documented	REC	0.11	3.00	10
Erection of interlinking lines (REC)	29.00	Erection of interlinking lines	Loan sanctioned. To be documented	REC	0.11	3.00	10
RDSS Ph-I (Loss Reduction)- Counterpart funding	864.00	Segregation of Agl feeders & Bifurcation of 33KV overloaded feeders	Scheme sanctioned by MoP for Grant. Counterpart loan sanction awaited.	PFC	0.1075	3.00	15
Bulk schemes for procurement of DTR, PTRs, VCBs etc	150.00	Procurement of DTR, PTRs, VCBs etc	DPRs to be formulated	REC	0.11	3.00	10
RDSS Ph-II (System Strengthening & Modernisation)- Co	480.00	System strengthening works like Erection of SSs, replacement of old PTRs,DTRs, VCBs etc	DPR submitted to PFC. Scheme to be sanctioned by MoP for Grant. Counterpart Loan to be sanctioned after scheme approval.	PFC	0.1075	3.00	15
Erection of Sub-Stations (REC)-New proposals-1	90.00	Erection of Sub-Stations	DPRs to be formulated for new proposals	REC	0.11	3.00	10
For funding Base Investment and Normal Works	684.00				0.11		
Total	2690.00				0.10875093		

Year 3							
Amount in Rs. Crores							
Particulars	Amount	Purpose	Status	Agency	Agreed Interest Rate	Moratorium Period (Years)	Repayment period (Years)
Infrastructure for release of Agl Services (REC)	315.00	Release of new Agl Services	Loan sanctioned. To be documented	REC	0.11	3.00	10
Bulk schemes for procurement of DTR, PTRs, VCBs etc	150.00	Procurement of DTR, PTRs, VCBs etc	DPRs to be formulated	REC	0.11	3.00	10
RDSS Ph-II (System Strengthening & Modernisation)- Co	622.80	System strengthening works like Erection of SSs, replacement of old PTRs,DTRs, VCBs etc	DPR submitted to PFC. Scheme to be sanctioned by MoP for Grant. Counterpart Loan to be sanctioned after scheme approval.	PFC	0.1075	3.00	15
Erection of Sub-Stations (REC)-New proposals-1	180.00	Erection of Sub-Stations	DPRs to be formulated for new proposals	REC	0.11	3.00	10
For funding Base Investment and Normal Works	886.94				0.11		
Total	2154.74				0.109277408		

Year 4							
Amount in Rs. Crores							
Particulars	Amount	Purpose	Status	Agency	Agreed Interest Rate	Moratorium Period (Years)	Repayment period (Years)
Infrastructure for release of Agl Services (REC)	315.00	Release of new Agl Services	Loan sanctioned. To be documented	REC	0.11	3.00	10
Erection of Sub-Stations (REC)-New proposals-1	180.00	Erection of Sub-Stations	DPRs to be formulated for new proposals	REC	0.11	3.00	10
For funding Base Investment and Normal Works	1250.61				0.11		
Total	1745.61				0.11		

Year 5**Amount in Rs. Crores**

Particulars	Amount	Purpose	Status	Agency	Agreed Interest Rate	Moratorium Period (Years)	Repayment period (Years)
Infrastructure for release of AgI Services (REC)	315.00	Release of new AgI Services	Loan sanctioned. To be documented	REC	0.11	3	10
Erection of Sub-Stations (REC)-New proposals-2	135.00	Erection of Sub-Stations	DPRs to be formulated for new proposals	REC	0.11	3	10
For funding Base Investment and Normal Works	1552.77				0.11		
Total	2002.77				0.11		

Form 1.1g - Loans

INDIAN LOANS & DEBENTURES

This form pertains to the Total Indian Loans and Debentures
Please fill in the required details pertaining to each year

Base Year	FY2018-19	Base Year								Balance at the beginning of the year
Loan Type	Account Code	Loan Agency (Source of Loan)	Loan Code*	Related Project Code	Year of incurring loan	Moratorium Period (in years)	Tenure of Loan (in years)	Rate of Interest		
Secured Loans									24818.30	
Bonds										
Debentures										
Borrowings for working capital										
Funds from State Government and Institution approved by State Government										
Other Secured Loans										
Capital projects		REC - Regular	763048 to 7616508		multiple dates	3.00	13 Years	0.00 to 11.00%	3833.83	
Capital projects		REC - DDUGJY	56611533 to 56611540		2018	3.00	13 Years	0.25 to 10.90%	144.85	
Capital projects		REC- World Bank-counterpart	7612541		2017	3.00	13 Years	0.25 to 11.00%	188.12	
Capital projects		REC DDG (Qtrly)	766001208		2019	3.00	13 Years	10.25%	0.27	
Capital projects		REC - JBIC	394299 to 394308		2008	3.00	15 Years	0.25 to 11.05%	17.12	
Capital projects		PFC - Regular	31807003 & 31807004		2009	3.00	13Years	11.25%	0.71	
Capital projects		PFC -RAPDRP			2009	3.00	13Years	9.00%	24.26	
Capital projects		PFC - IPDS	31852001 to 31852008 31858001 to 31858004		2017	3.00	13Years	10.65%	43.86	
Capital projects		PFC NEW LOAN	31807006 to 31807014		2019	4.00	10Years	0.00 to 10.50%	261.70	
Capital projects		PFC - JAGANANNA HOUSING COLONIES	31807015 to 31807019		2022	2.50	15 Years	10.50%	256.86	
Capital projects		PFC - GEL	31860001		2015	2.00	14 Years	0.35 to 11.10%	24.44	
Capital projects		SBI VIJAYAWADA			2018		10Years	10.20%	658.12	
Capital projects		RDSS								
Capital projects		REC AGL NEW LOAN				3.00				
Power purchase		REC - Special Term Loan	7612512		2017	2.00	7Years	11.00%	311.29	
Power purchase		REC - MTL	79115476		2020	1.00	3Years	12.50%	1.02	
Power purchase		REC - SPL TL Covid 19	7615913		2020	2.00	10Years	9.50%	1299.79	
Power purchase		REC - SPL TL Covid 19 - 2	7616479		2021	2.00	3Years	9.50%	409.63	
Power purchase		REC MTL	79116374		2021		10Years	9.75%	51.20	
Power purchase		REC -LPS	7617177		2022		10Years	9.50%	3796.69	
Power purchase		REC -RBPF	7617226		2022	0.50	1Year	9.50%	1500.00	
Power purchase		PFC Medium Term Loan - 4 (EFC) STL	31873001		2020		5Year	12.15%	370.18	
Power purchase		PFC Medium Term Loan - 5 TL Covid-19 - 1	31869001		2020		10Years	9.50%	1325.81	
Power purchase		PFC Loan - 6 SPL TL Covid-19 - 2	31870001		2021		10Years	10.00%	409.63	
Power purchase		PFC - LPS	31874001		2022		10Years	9.50%	4516.67	
Power purchase		PFC -RBPF	31875001		2022	0.50	1Year	9.05%	1500.00	
Power purchase		SBI - MTL			2019		70months	10.20%	210.95	
Power purchase		PTC Financial services Ltd	20000244 20000263		2016		7Years	10.90%	10.26	
Power purchase		APPFCL			2019	2.00	10Years	9.00%	3310.51	
Power purchase		SBI CC Limits			2017		1Year	11.15%	153.66	
Power purchase		Andhra Bank CC Limits			2017		1Year	11.65%	186.87	
Unsecured Loans									3564.75	
Bonds										
Trade Liability		FRP Bonds							211.15	
		STL from CPDCL							180.92	
		TSSPDCL							1643.33	
		Bill Discounting			2022				58.44	

		0.00	0.00	0.00				
		0.00	9.48	0.00				
		0.00	671.69	0.00				
		0.00	133.22	0.00				
	0.00	119.74	536.77	61.68	0.00	0.00	0.00	0.00
		75.62	12.61	9.41				
		44.11	524.17	52.27				
	6793.31	5385.30	29791.05	2526.31				

Base Year

Amount in Rs. Crores

Loan Type	Balance at the beginning of the year	Amount received during the year	Amount redeemed during the year	Balance outstanding at the end of the year	Interest Expense incurred during the year	Interest Expense paid till end of the year	Interest payment defaulted on	Principle payment defaulted on	Pcode	Loan Code	Remarks
Secured Loans	0.00	0.00	0.00	0.00	0.00	0.00					
				0.00							
				0.00							
Unsecured Loans	0.00	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	0.00			

Year 1

Amount in Rs. Crores

Loan Type	Balance at the beginning of the year	Amount received during the year	Amount redeemed during the year	Balance outstanding at the end of the year	Interest Expense incurred during the year	Interest Expense paid till end of the year	Interest payment defaulted on	Principle payment defaulted on	Pcode	Loan Code	Remarks
Secured Loans	0.00	0.00	0.00	0.00	0.00	0.00					
				0.00							
Unsecured Loans	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	0.00			

Year 2

Amount in Rs. Crores

Loan Type	Balance at the beginning of the year	Amount received during the year	Amount redeemed during the year	Balance outstanding at the end of the year	Interest Expense incurred during the year	Interest Expense paid till end of the year	Interest payment defaulted on	Principle payment defaulted on	Pcode	Loan Code	Remarks
Secured Loans	0.00	0.00	0.00	0.00	0.00	0.00					
				0.00							
Unsecured Loans	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	0.00			

Year 3

Amount in Rs. Crores

Loan Type	Balance at the beginning of the year	Amount received during the year	Amount redeemed during the year	Balance outstanding at the end of the year	Interest Expense incurred during the year	Interest Expense paid till end of the year	Interest payment defaulted on	Principle payment defaulted on	Pcode	Loan Code	Remarks
Secured Loans	0.00	0.00	0.00	0.00	0.00	0.00					
				0.00							
Unsecured Loans	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	0.00			

Year 4

Amount in Rs. Crores

Loan Type	Balance at the beginning of the year	Amount received during the year	Amount redeemed during the year	Balance outstanding at the end of the year	Interest Expense incurred during the year	Interest Expense paid till end of the year	Interest payment defaulted on	Principle payment defaulted on	Pcode	Loan Code	Remarks
Secured Loans	0.00	0.00	0.00	0.00	0.00	0.00					
				0.00							
Unsecured Loans	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	0.00			

Year 5

Amount in Rs. Crores

Loan Type	Balance at the beginning of the year	Amount received during the year	Amount redeemed during the year	Balance outstanding at the end of the year	Interest Expense incurred during the year	Interest Expense paid till end of the year	Interest payment defaulted on	Principle payment defaulted on	Pcode	Loan Code	Remarks
Secured Loans	0.00	0.00	0.00	0.00	0.00	0.00					
				0.00							
Unsecured Loans	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	0.00			

Form 1.1j - CURRENT ASSETS

This form refers to the total current assets

Please fill in the required details pertaining to each year

Amount in Rs. Crores

PARTICULARS	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
MATERIAL STOCK & RELATED ACCOUNTS	758	611	784	619	479	528
SUNDRY DEBTORS	14873	12642	11378	10240	9216	8295
CASH AND BANK	176	184	194	203	214	224
LOANS AND ADVANCES	946	993	1043	1095	1150	1207
OTHER CURRENT ASSETS	8296	8452	8351	8247	8168	8149
GRAND TOTAL	25050	22882	21750	20404	19226	18404

Form 1.1k - CURRENT LIABILITIES

This form refers to the total current liabilities

Please fill in the required details pertaining to each year

Amount in Rs. Crores

PARTICULARS	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
a) Short term Borrowings	3564.75	3785.38	3628.17	3628.18	3628.18	3628.18
b) Trade Payables	4675.00	4864.37	5187.06	5408.35	5568.22	5985.76
c) Other current liabilities	3227.26	2858.19	2578.82	2230.17	1854.34	1462.49
d) Short term Provisions	196.67	236.17	286.25	336.84	388.97	436.01
GRAND TOTAL	11663.68	11744.11	11680.30	11603.55	11439.70	11512.44

Form 1.1n - RESERVES

This form pertains to the total reserves

Please fill in the required details pertaining to each year

Amount in Rs.Crore

PARTICULARS	D Link	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Consumer Contributions	2372.74	2472	2576	2686	2801	2922	3049
General Reserve	-9523.44	-9517	-9511	-9506	-9500	-9495	-9489
Contingency Reserve	25.05	25.05	25.05	25.05	25.05	25.05	25.05
Grants	0.00	2499	3831	5790	6466	6082	5621
GRAND TOTAL	-7125.66	-4521.20	-3078.36	-1004.40	-206.97	-465.62	-794.52

Form : 1.2 - Cash Flow Statement

Cash Flows from Operating Activities	D Link	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Net Profit before Tax		49	65	90	114	134	149
Adjustments for depreciation		819	1,170	1,661	2,186	2,583	2,934
Adjustments for foreign exchange loss / (gain)							
Provision for diminution in value of investments							
Interest expense (income)		2,765	3,012	2,931	2,982	3,001	3,047
Less: Withdrawal of Dep. On CC assets		364	525	725	915	1,060	1,155
Operating income before working capital charges		3,269	3,722	3,957	4,367	4,659	4,974
Increase / Decrease in sundry debtors		(708)	2,231	1,264	1,138	1,024	922
Increase/ Decrease in inventories		(252)	148	(173)	165	140	(49)
Increase / Decrease in Loans & Advances		(45)	(47)	(50)	(52)	(55)	(57)
Increase / Decrease in Other Non-Current Assets		(117)	(2)	(2)	(2)	(3)	(3)
Increase / Decrease in Long Term Loans and Advances		(14)	(14)	(15)	(15)	(16)	(16)
Increase / Decrease in Other Receivables		(807)	(155)	101	105	79	18
Increase / Decrease in Trade Payables including long term liabilities		(500)	3,608	4,403	3,574	3,212	3,539
Increase / Decrease in Provisions		120	39	50	51	52	47
Increase / Decrease in other Current liabilities & Short Term Borrowings		1,839	(148)	(437)	(349)	(376)	(392)
Cash generated from operations		2785.50	9380.92	9098.95	8980.44	8717.99	8982.65
Interest paid							
Provision for Income Tax		43	60	85	108	129	143
Extraordinary gain / (loss)							
Net cash from generated from operating activities		2742.73	9321.42	9014.41	8872.84	8588.58	8839.52
Cash Flows from Investing Activities							
Acquisition of subsidiary							
Purchase of Fixed Assets (Including Interest capitalised)		(4,422)	(6,150)	(6,865)	(6,001)	(5,148)	(3,408)
Reserves in Government Bonds							
Interest received							
Dividends received							
Purchase of Other Investment Activities							
Sale of Other Investment Activities		(102)	0	0	0	0	0
Increase / (Decrease) in liability for Capital works		(2,300)	875	170	1,142	1,800	(141)
Accumulated interest on investments through contingency reserve							
Net cash used in (from) investment activities		-6823.51	-5275.46	-6694.41	-4858.99	-3348.00	-3549.23
Cash Flows from Financing Activities							
Proceeds from issuance of share capital		0.00	0.00	0.00	0.00	0.00	0.00
Proceeds from Long Term Debt		3,893	(2,988)	(2,173)	(2,729)	(3,026)	(3,054)
Repayment of long term debt		0.00	0.00	0.00	0.00	0.00	0.00
Proceeds from Govt. Subsidies and Grants		2,961	1,963	2,793	1,707	796	821
Payment of financial lease liabilities		0.00	0.00	0.00	0.00	0.00	0.00
Interest Paid		-2764.76	-3012.36	-2931.00	-2982.20	-3001.10	-3046.54
Dividends paid		0.00	0.00	0.00	0.00	0.00	0.00
Net cash from (used in) financing activities		4089.13	-4037.41	-2310.05	-4004.41	-5230.51	-5279.99
Net Change in Cash Equivalents		8	9	10	9	10	10
Cash and Cash Equivalents at Beginning of Year		167	176	184	194	203	214
Cash and Cash Equivalents at End of Year		176	184	194	203	214	224

Form 1.3a - Operation and Maintenance Expenses

This form pertains to the Operation and Maintenance Expenses

Aggregate of all circles

Amount in Rs crores

Particulars	2023-24 (Base Year)	2024-25	2025-26	2026-27	2027-28	2028-29
Operation & Maintenance Expenses						
Employee Cost	2778.60	2583.88	2672.59	2972.52	3186.92	3391.68
Administrative & General Expenses	129.26	142.27	156.02	171.21	187.86	206.37
Repair & Maintenance Expenses	442.89	582.56	831.41	1078.62	1230.63	1361.05
Pay to Outsourced employees						
Employee Cost						
Repair & Maintenance Expenses						
Technical Details						
Total No of consumers	7224249	7448377	7677866	7912921	8153736	8400506
LT consumers	7220100	7444083	7673452	7908385	8149074	8395714
HT consumers	4149	4294	4414	4536	4662	4792
HT 11kV Consumers	3286	3408	3510	3614	3722	3833
HT 33 kV consumers	731	748	765	783	801	820
HT132 kV consumers	132	138	139	139	139	139
Numer of Substations	1564	1662	1751	1846	1944	2050
Capacity of Substations (MVA)	15265.39445	16243.88272	17114.36114	18046.9727	19027.78128	20074.69921
Peak Demand (MW)	6055.542489	6475.889638	6918.135564	7270.170208	7639.869082	8115.245239
Total Length (ckt-km)	312993.81	318443.19	324205.52	330293.99	336768.47	343679.25
LT Line Length	151490.99	153714.53	156156.17	158729.85	161475.6	164402.05
11 kV Line Length	147323.23	149519.87	151931.99	154474.16	157186.28	160076.61
33 kV Line Length	14179.59	15208.79	16117.36	17089.98	18106.59	19200.59
Number of DTRs	703573	713893	725223	737163	749903	763483
Number of PTRs	2591	2689	2778	2873	2971	3077
Number of Feeders	0	0	0	0	0	0
Energy Input (MU)	28202.54799	30160.23563	32186.50687	33824.342	35544.35967	37756.03907
Total Sales (MU)	0	0	0	0	0	0
LT Sales	15358.82988	16163.06784	17011.33474	17906.19187	18850.36303	19846.74602
HT Sales	0	0	0	0	0	0
11 kV Sales	2105.679793	2437.515019	2574.757743	2736.444394	2889.34982	3052.475193
33 kV Sales	2822.933006	2978.423577	3143.488986	3318.758756	3504.906974	3702.655734
132 kV Sales	6078.147119	6647.291786	7425.233257	7723.118055	8038.746089	8752.395864

Circle 1 (Please enter the circle name below)

Nellore

Particulars	2023-24 (Base Year)	2024-25	2025-26	2026-27	2027-28	2024-29
Operation & Maintenance Expenses						
Employee Cost	469.2704568	434.5548115	449.6317097	500.251994	536.913883	571.6820439
Administrative & General Expenses	21.82873365	23.9256968	26.24577697	28.81128143	31.64753084	34.78226792
Repair & Maintenance Expenses	79.85603738	103.7530214	147.6697718	191.0660748	217.7666726	240.3414099
Technical Details						
Total No of consumers	1273874	1313510	1354138	1395790	1438506	1482320
LT consumers	1273121	1312735	1353342	1394973	1437668	1481460
HT consumers	753	775	796	817	838	860
HT 11kV Consumers	646	666	685	704	723	743
HT 33 kV consumers	90	92	94	96	98	100
HT132 kV consumers	17	17	17	17	17	17
Numer of Substations	282	296	311	327	344	362
Capacity of Substations (MVA)	2684.764639	2823.16775	2969.322646	3123.761738	3287.4859	3461.637526
Peak Demand (MW)	877.0702777	922.0375342	970.4905263	1020.63462	1073.722611	1153.148717
Total Length (ckt-km)	46750.69	47678.36	48655.47	49687.13	50782.21	51949.56
LT Line Length	26686.56	27078.47	27492.53	27928.73	28391.5	28885.27
11 kV Line Length	17613.53	18005.44	18419.5	18855.7	19318.47	19812.24
33 kV Line Length	2450.6	2594.45	2743.44	2902.7	3072.24	3252.05
Number of DTRs	100036	101806	103676	105646	107736	109966
Number of PTRs	462	476	491	507	524	542
Number of Feeders						
Energy Input (MU)	4828.180103	5075.720144	5336.909709	5612.661499	5904.602335	6341.38141
Total Sales (MU)						
LT Sales	2843.967175	2992.507007	3149.138865	3314.332625	3488.588094	3672.437142
HT Sales						
11 kV Sales	410.2813847	431.4099724	453.697102	477.0141305	501.6516537	527.7020616
33 kV Sales	486.3539342	510.677435	536.2190928	563.0401404	591.2049198	620.7810455
132 kV Sales	745.6034789	782.5063796	821.2399392	861.8951346	904.5674699	1076.149227

Circle 2 (Please enter the circle name below)

Tirupati						
Particulars	2023-24 (Base Year)	2024-25	2025-26	2026-27	2027-28	2024-29
Operation & Maintenance Expenses						
Employee Cost	702.2476739	650.2555128	672.3613982	747.976222	802.2355962	854.0277788
Administrative & General Expenses	32.66959604	35.80565408	39.25112299	43.08317827	47.29144588	51.96610457
Repair & Maintenance Expenses	122.8990079	159.8357357	227.4399379	294.4871612	335.512606	370.4710131
Technical Details						
Total No of consumers	1723251	1775367	1828685	1883244	1939088	1996259
LT consumers	1721848	1773919	1827191	1881702	1937496	1994616
HT consumers	1403	1448	1494	1542	1592	1643
HT 11kV Consumers	1230	1271	1313	1357	1403	1450
HT 33 kV consumers	146	150	154	158	162	166
HT132 kV consumers	27	27	27	27	27	27
Numer of Substations	434	456	479	504	530	558
Capacity of Substations (MVA)	3868.284014	4086.843344	4318.67013	4564.893903	4826.914892	5106.545998
Peak Demand (MW)	1807.70929	1907.47886	2015.257921	2127.467728	2246.683377	2382.939099
Total Length (ckt-km)	69352.84	70569.77	71854.6	73216.48	74659.55	76201.22
LT Line Length	34927.54	35425.79	35952.98	36511.18	37102.46	37733.02
11 kV Line Length	30998.6	31496.85	32024.04	32582.24	33173.52	33804.08
33 kV Line Length	3426.7	3647.13	3877.58	4123.06	4383.57	4664.12
Number of DTRs	159441	161851	164401	167101	169961	173011
Number of PTRs	654.00	676.00	699.00	724.00	750.00	778.00
Number of Feeders						
Energy Input (MU)	6933.91	7316.60	7721.99	8151.96	8608.76	9130.86
Total Sales (MU)						
LT Sales	3423.20	3600.15	3786.42	3982.51	4188.95	4406.31
HT Sales						
11 kV Sales	1087.63	1155.52	1227.76	1304.64	1386.46	1473.57
33 kV Sales	889.52	953.35	1021.81	1095.22	1173.96	1258.41
132 kV Sales	1108.68	1161.91	1217.81	1276.50	1338.12	1438.35

Circle 3 (Please enter the circle name below)

Kadapa

Particulars	2023-24 (Base Year)	2024-25	2025-26	2026-27	2027-28	2024-29
Operation & Maintenance Expenses						
Employee Cost	520.28	488.09	507.16	566.38	609.91	652.19
Administrative & General Expenses	24.21	26.88	29.61	32.63	35.96	39.69
Repair & Maintenance Expenses	90.33	120.23	172.36	224.37	257.02	285.49
Technical Details						
Total No of consumers	1120098.00	1160047.00	1201167.00	1243519.00	1287152.00	1332116.00
LT consumers	1119651.00	1159572.00	1200679.00	1243018.00	1286637.00	1331587.00
HT consumers	447.00	475.00	488.00	501.00	515.00	529.00
HT 11kV Consumers	361.00	383.00	396.00	409.00	423.00	437.00
HT 33 kV consumers	61.00	61.00	61.00	61.00	61.00	61.00
HT132 kV consumers	25.00	31.00	31.00	31.00	31.00	31.00
Numer of Substations	319.00	343.00	363.00	384.00	406.00	430.00
Capacity of Substations (kVA)	3023.08	3263.35	3457.27	3664.01	3885.80	4124.51
Peak Demand (MW)	1070.81	1230.54	1304.13	1381.51	1464.66	1569.80
Total Length (ckt-km)	52931.20	53919.78	54949.04	56045.22	57216.05	58476.61
LT Line length	24509.49	24919.89	25370.19	25850.89	26363.89	26914.89
11 kV Line Length	26190.97	26574.47	26995.25	27444.44	27923.81	28438.69
33 kV Line Length	2230.74	2425.42	2583.60	2749.89	2928.35	3123.03
Number of DTRs	142716.00	144876.00	147246.00	149776.00	152476.00	155376.00
Number of PTRs	535.00	559.00	579.00	600.00	622.00	646.00
Number of Feeders						
Energy Input (MU)	4208.23	4835.95	5119.84	5423.62	5750.06	6162.83
Total Sales (MU)						
LT Sales	2587.78	2743.03	2908.24	3084.11	3271.41	3470.95
HT Sales						
11 kV Sales	135.53	204.02	216.44	229.39	243.71	259.59
33 kV Sales	105.74	109.87	114.23	118.87	123.78	129.01
132 kV Sales	1073.50	1453.92	1536.75	1626.14	1722.61	1887.87

Circle 4 (Please enter the circle name below)

Anantapur

Particulars	2023-24 (Base Year)	2024-25	2025-26	2026-27	2027-28	2024-29
Operation & Maintenance Expenses						
Employee Cost	595.40	552.81	570.24	633.17	676.39	717.65
Administrative & General Expenses	27.70	30.44	33.29	36.47	39.87	43.67
Repair & Maintenance Expenses	79.29	105.16	150.52	196.32	224.10	248.31
Technical Details						
Total No of consumers	1590300.00	1635697.00	1681947.00	1729079.00	1777118.00	1826094.00
LT consumers	1589462.00	1634832.00	1681059.00	1728168.00	1776184.00	1825136.00
HT consumers	838.00	865.00	888.00	911.00	934.00	958.00
HT 11kV Consumers	493.00	513.00	528.00	543.00	558.00	574.00
HT 33 kV consumers	309.00	316.00	323.00	331.00	339.00	347.00
HT132 kV consumers	36.00	36.00	37.00	37.00	37.00	37.00
Numer of Substations	280.00	300.00	317.00	336.00	354.00	374.00
Capacity of Substations (kVA)	3208.51	3407.46	3572.43	3755.79	3938.08	4131.17
Peak Demand (MW)	1569.41	1659.16	1847.98	1933.18	2018.77	2132.55
Total Length (ckt-km)	81946.98	83142.17	84447.82	85810.92	87258.97	88795.61
LT Line Length	33131.97	33607.79	34160.15	34729.06	35343.49	35993.08
11 kV Line Length	45539.31	46015.13	46567.49	47136.40	47750.83	48400.42
33 kV Line Length	3275.70	3519.25	3720.18	3945.46	4164.65	4402.11
Number of DTRs	190140.00	192440.00	195110.00	197860.00	200830.00	203970.00
Number of PTRs	513.00	533.00	550.00	569.00	587.00	607.00
Number of Feeders						
Energy Input (MU)	7105.34	7511.69	8357.88	8743.23	9130.29	9644.90
Total Sales (MU)						
LT Sales	3806.01	3988.88	4180.65	4381.78	4592.71	4813.93
HT Sales						
11 kV Sales	247.00	335.93	353.84	389.30	407.57	427.03
33 kV Sales	1122.43	1177.41	1235.11	1295.66	1359.22	1425.91
132 kV Sales	1482.79	1540.09	2097.43	2161.51	2229.28	2405.56

Circle 5 (Please enter the circle name below)

Kurnool

Particulars	2023-24 (Base Year)	2024-25	2025-26	2026-27	2027-28	2024-29
Operation & Maintenance Expenses						
Employee Cost	491.40	458.17	473.20	524.74	561.48	596.13
Administrative & General Expenses	22.85	25.22	27.62	30.22	33.09	36.26
Repair & Maintenance Expenses	70.51	93.59	133.43	172.37	196.24	216.44
Technical Details						
Total No of consumers	1516726.00	1563756.00	1611929.00	1661289.00	1711872.00	1763717.00
LT consumers	1516018.00	1563025.00	1611181.00	1660524.00	1711089.00	1762915.00
HT consumers	708.00	731.00	748.00	765.00	783.00	802.00
HT 11kV Consumers	556.00	575.00	588.00	601.00	615.00	629.00
HT 33 kV consumers	125.00	129.00	133.00	137.00	141.00	146.00
HT132 kV consumers	27.00	27.00	27.00	27.00	27.00	27.00
Numer of Substations	249.00	267.00	281.00	295.00	310.00	326.00
Capacity of Substations (kVA)	2480.76	2663.06	2796.67	2938.52	3089.50	3250.83
Peak Demand (MW)	1147.60	1213.27	1265.98	1320.43	1378.19	1451.11
Total Length (ckt-km)	62012.10	63133.11	64298.59	65534.24	66851.69	68256.25
LT Line Length	32235.43	32682.59	33180.32	33709.99	34274.26	34875.79
11 kV Line Length	26980.82	27427.98	27925.71	28455.38	29019.65	29621.18
33 kV Line Length	2795.85	3022.54	3192.56	3368.87	3557.78	3759.28
Number of DTRs	111240.00	112920.00	114790.00	116780.00	118900.00	121160.00
Number of PTRs	427.00	445.00	459.00	473.00	488.00	504.00
Number of Feeders						
Energy Input (MU)	5126.90	5420.28	5649.88	5892.88	6150.65	6476.07
Total Sales (MU)						
LT Sales	2697.87	2838.51	2986.89	3143.46	3308.71	3483.13
HT Sales						
11 kV Sales	225.24	310.64	323.02	336.11	349.95	364.59
33 kV Sales	218.89	227.12	236.12	245.97	256.75	268.54
132 kV Sales	1667.57	1708.86	1752.00	1797.08	1844.17	1944.46

Form 1.3(i) - WORKING CAPITAL

Amount in Rs. Crores

PARTICULARS	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
O&M expenses	3350.74	3281.06	3539.30	4028.32	4411.39	4765.08
R&M expenses	442.89	582.56	831.41	1078.62	1230.63	1361.05
A&G expenses	129.26	142.27	156.02	171.21	187.86	206.37
Employee expenses	3350.74	3308.72	3660.02	4222.35	4605.42	4959.10
Working Capital Requirement (1/12th of total O&M Expenses+ Expense capitalized)	333.11	317.03	357.26	389.26	409.08	441.14

Form 1.3i - Other Expenses

Particulars	Amount in Rs. Crore					
	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Amortisation of true up gap for second control period						
Other expenses	24.72	25.46	26.23	27.01	27.82	28.66
TOTAL OTHER EXPENSES	24.72	25.46	26.23	27.01	27.82	28.66

Distribution System Losses

This form Captures the Total Distribution System Losses as incurred due to losses in 33KV, 11KV and LT System

Please fill in the required details pertaining to each year

	Particulars		D - Link	2023-24 (Base Year)	2024-25	2025-26	2026-27	2027-28	Year 5
I. Losses in 33 KV System and Connected Equipment									
(i)	Total Energy delivered/required into 33 KV Distribution System from EHT SSs	A		22454.11	23868.36	25133.51	26487.07	27897.26	29388.32
(ii)	Energy delivered/required by all other Generating Stations at 33kV	B		0.00	0.00	0.00	0.00	0.00	0.00
(iii)	Energy consumed by HT consumers at 33KV (Sales + Third Party)	X		2822.93	2978.42	3143.49	3318.76	3504.91	3702.66
(iv)	Energy delivered/required into 11 KV and LT System from 33/11 KV SS	C		18912.65	20128.06	21189.77	22327.07	23508.53	24756.93
	Losses (33 kV System)	(A + B) - (C + X)		718.53	761.88	800.26	841.25	883.82	928.73
	% Losses (33 kV System)	$100 \times [(A+B)-(C+X)] / (A+B)$		3.20	3.19	3.18	3.18	3.17	3.16
II. Losses in 11 KV System and Connected Equipment									
(i)	Energy delivered/required into 11 KV system from 33/11kV SSs	C		18912.65	20128.06	21189.77	22327.07	23508.53	24756.93
(ii)	Energy delivered/required into 11 KV Distribution System from EHT SSs	D							
(iii)	Energy delivered/required at 11kV from all other Generating Stations	E		0.00	0.00	0.00	0.00	0.00	0.00
(iv)	Total Energy delivered/required into 11 KV and LT Distribution System	C+D+E		18912.65	20128.06	21189.77	22327.07	23508.53	24756.93
(v)	Energy consumed by HT consumers at 11KV (Sales + Third Party)	Y		2105.68	2437.52	2574.76	2736.44	2889.35	3052.48
(vi)	Total Output from 11kV to LT	F		16180.96	17025.97	17917.13	18857.13	19848.80	20895.20
	Losses (11kV System)	(C + D + E) - (Y + F)		626.01	664.57	697.88	733.50	770.38	809.26
	% Losses (11kV System)	$[(C+D+E)-(Y+F)] \times 100 / (C+D+E)$		3.31	3.30	3.29	3.29	3.28	3.27
III. Losses in LT system and connected equipment									
(i)	Energy delivered/required to LT system from 11/400 V DTRs	F		16180.96	17025.97	17917.13	18857.13	19848.80	20895.20
(ii)	Energy sold to metered categories	Z		15358.83	16163.07	17011.33	17906.19	18850.36	19846.75
(iii)	Energy sold to un-metered categories	N							
	Losses (LT System)	F-(Z+N)		822.13	862.90	905.80	950.93	998.44	1048.45
	% Losses (LT System)	$[F-(Z+N)] \times 100 / (F)$		5.08	5.07	5.06	5.04	5.03	5.02
IV. Total losses in the Distribution System									
(i)	Total Input to the distribution system	A + B + D + E		22454.11	23868.36	25133.51	26487.07	27897.26	29388.32
(ii)	Total Output from the Distribution Sytem	X + Y + Z + N		20287.44	21579.01	22729.58	23961.40	25244.62	26601.88
(iii)	EHT Consumption (Sales + Third Party)	G		6078.15	6647.29	7425.23	7723.12	8038.75	8752.40
	Distribution System Losses	(A + B + D + E)-(X + Y + Z + N)		2166.67	2289.35	2403.93	2525.68	2652.64	2786.44
	% Distribution System Losses (Excluding EHT Sales)	$[(A+B+D+E)-(X+Y+Z+N)] \times 100 / (A+B+D+E)$		0.10	0.10	0.10	0.10	0.10	0.09
	% Distribution System Losses (Including EHT Sales)	$[(A+B+D+E+G)-(X+Y+Z+N)] \times 100 / (A+B+D+E+G)$		0.08	0.08	0.07	0.07	0.07	0.07

Form 7.0 - Consumer Contributions and Grants

Base Year

Particulars	D Link	Opening Balance at the beginning of the year	Additions during the year	Deductions during the year	Closing Balance at the End of the Year	Remarks
Grants		0.00	2558.00	59.29	2498.71	
Consumer Contributions		2372.73	404.06	304.69	2472.10	
Total		2372.73	2962.06	363.98	4970.82	

Year 1

Particulars	D Link	Opening Balance at the beginning of the year	Additions during the year	Deductions during the year	Closing Balance at the End of the Year	Remarks
Grants		2498.71	1538.00	205.32	3831.40	
Consumer Contributions		2472.10	424.26	319.92	2576.44	
Total		4970.82	1962.26	525.24	6407.84	

Year 2

Particulars	D Link	Opening Balance at the beginning of the year	Additions during the year	Deductions during the year	Closing Balance at the End of the Year	Remarks
Grants		3831.40	2348.00	389.25	5790.15	
Consumer Contributions		2576.44	445.48	335.92	2686.00	
Total		6407.84	2793.48	725.17	8476.15	

Year 3

Particulars	D Link	Opening Balance at the beginning of the year	Additions during the year	Deductions during the year	Closing Balance at the End of the Year	Remarks
Grants		5790.15	1239.00	562.69	6466.46	
Consumer Contributions		2686.00	467.75	352.72	2801.04	
Total		8476.15	1706.75	915.40	9267.50	

Year 4

Particulars	D Link	Opening Balance at the beginning of the year	Additions during the year	Deductions during the year	Closing Balance at the End of the Year	Remarks
Grants		6466.46	305.00	689.21	6082.25	
Consumer Contributions		2801.04	491.14	370.35	2921.82	
Total		9267.50	796.14	1059.56	9004.08	

Year 5

Particulars	D Link	Opening Balance at the beginning of the year	Additions during the year	Deductions during the year	Closing Balance at the End of the Year	Remarks
Grants		6082.25	305.00	766.27	5620.98	
Consumer Contributions		2921.82	515.70	388.87	3048.65	
Total		9004.08	820.70	1155.14	8669.63	

Form 8**Revenue Surplus / (deficit) at current tariffs**

Items of Non - Tariff Income (Rs. Crs.)	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Aggregate Revenue Requirement (Rs. Crs.)	4664.31	5092.39	6312.44	7810.49	8998.38	10035.62
Wheeling revenue from current tariffs (Rs. Cr)*	4242.07	4507.14	5525.47	6831.43	7873.26	8812.94
Non Tariff Income (Rs. Cr)	422.23	585.25	786.97	979.06	1125.13	1222.68
Revenue Surplus / (deficit) at current tariffs (Rs Cr)	0.00	0.00	0.00	0.00	0.00	0.00

* Wheeling revenue = Revenue from wheeling from third party+Revenue from wheeling revenue from retail supply business

Revenue Surplus / (deficit) at Proposed tariffs

Form 9

Items of Non - Tariff Income (Rs. Crs.)	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
Aggregate Revenue Requirement (Rs. Crs.)	4664.31	5092.39	6312.44	7810.49	8998.38	10035.62
Wheeling revenue from proposed tariffs (Rs. Cr)*	4242.07	4507.14	5525.47	6831.43	7873.26	8812.94
Non Tariff Income (Rs. Cr)	422.23	585.25	786.97	979.06	1125.13	1222.68
Revenue Surplus / (deficit) at proposed tariffs (Rs Cr)	0.00	0.00	0.00	0.00	0.00	0.00

* Wheeling revenue = Revenue from wheeling from third party+Revenue from wheeling revenue from retail supply business

Form 10 - Non Tariff Income

This form captures the Total Non-tariff income during a particular year

Please fill in the required details pertaining to each year

Particulars	Amount in Rs. Crore					
	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5
a) Staff Loans & Advances	0.61	0.63	0.65	0.67	0.69	0.71
ii) Fines & Penalties from Suppliers & Contractors	24.09	24.82	25.56	26.33	27.12	27.93
iii) Profit on Sale of Scrap	2.10	2.17	2.23	2.30	2.37	2.44
v) Sale of Tender Schedules	0.10	0.11	0.11	0.11	0.12	0.12
vi) Rental from Contractors	0.03	0.03	0.03	0.03	0.03	0.03
xi) Supervision Charges	2.48	2.55	2.63	2.71	2.79	2.88
xiii) Miscellaneous Income	28.84	29.70	30.59	31.51	32.45	33.43
Withdrawal from Consumer Contribution towards Depreciation on Fixed Assets	363.98	525.24	725.17	915.40	1059.56	1155.14
TOTAL Non Tariff Income	422.23	585.25	786.97	979.06	1125.13	1222.68