
PETITION FOR TRUE-UP OF FY 2019-20, ANNUAL PERFORMANCE
REVIEW OF FY 2020-21 AND AGGREGATE REVENUE REQUIREMENT
(ARR) & TARIFF PROPOSAL OF FY 2021-22 of ELECTRICITY WING OF
ENGINEERING DEPARTMENT, CHANDIGARH

Joint Electricity Regulatory Commission, Gurgaon

ELECTRICITY WING OF ENGINEERING DEPARTMENT, CHANDIGARH

BEFORE THE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION

Filing No:

Case No:

IN THE MATTER OF:

Petition for True-Up of FY 2019-20, Annual Performance Review of FY 2020-21 and Aggregate Revenue Requirement (ARR) & Tariff Proposal of FY 2021-22 of Electricity Wing of Engineering Department, Chandigarh

AND IN THE MATTER OF:

Electricity Wing of Engineering
Department, Chandigarh
Deluxe Building, Sector - 9D
Chandigarh - UT
PETITIONER

PETITIONER, UNDER SECTIONS 45, 46, 61, 62 AND 64 OF THE ELECTRICITY ACT, 2003 FILES FOR INITIATION OF PROCEEDINGS BY THE HON'BLE COMMISSION FOR DECIDING ON THE MATTERS CONCERNING THE APPROVAL OF THE TRUE-UP FOR FY 2019-20, ANNUAL PERFORMANCE REVIEW FOR FY 2020-21 AND TARIFF PETITION FOR FY 2021-22 OF ELECTRICITY WING OF ENGINEERING DEPARTMENT, CHANDIGARH

The applicant respectfully submits hereunder:

- 1) The Petitioner, the Electricity Wing of Engineering Department, Chandigarh (EWEDC) has been allowed to function as an integrated Distribution licensee for the license area of Chandigarh UT.
- 2) Pursuant to the enactment of the Electricity Act, 2003, EWEDC is required to submit its Annual Revenue Requirement (ARR) and Tariff Petition as per the procedures outlined in section 61, 62 & 64 of EA 2003, and the governing regulations thereof.
- 3) EWEDC has submitted its petition for determination of Annual Revenue Requirement and tariff proposal for FY 2021-22 on the basis of the principles outlined in the MYT Regulations, 2018 notified by the Hon'ble Commission.
- 4) This petition includes the True-Up Petition for FY 2019-20, Review Petition for FY 2020-21 and ARR & Tariff Petition for FY 2021-22.
- 5) EWEDC is submitting the True-up for the FY 2019-20 based on the accounts prepared on commercial accounting principle and duly vetted by the Asst. Controller (Finance and accounts), Electricity Department. The same has already been submitted to AG UT.
- 6) EWEDC along with this petition is submitting the statutory formats with additional/ supplementary data & information available and shall further make available the same to the extent available with EWEDC as may be required by the Hon'ble Commission during its processing.

Prayers to the Commission

EWEDC respectfully prays that the Hon'ble Commission may

- a. Admit this Petition filed by EWEDC.
- b. Examine the proposal submitted by the Petitioner for a favourable dispensation as detailed in the enclosed proposal;
- c. Consider the submissions and allow the True-Up for FY 2019-20, revised estimate for FY 2020-21 and approve Aggregate Revenue Requirement & Retail Tariff for FY 2021-22;
- d. Approve the revenue gap/surplus and appropriate tariff increase as detailed in the enclosed proposal;
- e. Pass suitable orders for implementation of the tariff proposals for the FY 2021-22 for making it applicable from April 1, 2021 onwards;
- f. Approve the terms and conditions of Tariff Schedule and various other matters as and the proposed changes therein;
- g. Approve the Miscellaneous and General Charges as proposed;
- h. Condone any inadvertent omissions/ errors/ shortcomings and permit EWEDC to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date;
- i. Pass such orders as the Hon'ble Commission may deem fit and proper, keeping in view the facts and circumstances of the case;

Electricity Wing of Engineering Department, Chandigarh

Petitioner

Place: Chandigarh.

Date: .01.2021.

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List of abbreviations

Abbreviation	Full Form
A&G	Administrative and General
ACoS	Average Cost of Supply
Act	The Electricity Act, 2003
APR	Annual Performance Review
ARR	Aggregate Revenue Requirement
ATE	Appellate Tribunal of Electricity
BPL	Below Poverty Line
CAGR	Compound Annualized Growth rate
Capex	Capital Expenditure
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGRF	Consumer Grievance Redressal Forum
CGS	Central Generating Stations
COD	Commercial Operation Date
Cr	Crores
Discom	Distribution Company
EWEDC	Electricity Wing of Engineering Department, Chandigarh
DSM	Deviation Settlement Mechanism
EHT	Extra High Tension
ERP	Enterprise Resource Planning
FPPCA	Fuel and Power Purchase Cost Adjustment
FY	Financial Year
GFA	Gross Fixed Assets

Abbreviation	Full Form
HT	High Tension
IEX	Indian Energy Exchange Limited
IPP	Independent Power Producer
ISTS	Inter State Transmission System
JERC	Joint Electricity Regulatory Commission for the state of Goa and Union Territories
LT	Low Tension
MU	Million Units
MYT	Multi Year Tariff
NFA	Net Fixed Assets
NTPC	National Thermal Power Corporation
O&M	Operation and Maintenance
PGCIL	Power Grid Corporation of India Limited
PLF	Plant Load Factor
PLR	Prime Lending Rate
POSOCO	Power System Operation Corporation Limited
PPA	Power Purchase Agreement
R&M	Repair and Maintenance
REC	Renewable Energy Certificate
RLDC	Regional Load Despatch Centre
RoE	Return on Equity
RPO	Renewable Purchase Obligation
SBI MCLR	SBI Marginal Cost Lending Rate
SBI PLR	SBI Prime Lending Rate
SERC	State Electricity Regulatory Commission

Abbreviation	Full Form
SLDC	State Load Despatch Center
SOP	Standard of Performance
T&D Loss	Transmission & Distribution Loss
UI	Unscheduled Interchange
UT	Union Territory

Chapter 1: Introduction and Background

Electricity Wing of Engineering Department, Chandigarh

- 1.1 Union Territory of Chandigarh came into existence with effect from 1st November, 1966 after re-organization of erstwhile state of Punjab. An early entrant to the planning process, Chandigarh has emerged as one of the most developed Union Territories in India and even achieved the ranking of one of the best UTs in India with regards to investment environment, infrastructure and tourism. The total population of the Union Territory is around 10.5 Lakhs as per 2011 census.
- 1.2 The Local Distribution of electricity in Chandigarh was taken over by the Chandigarh Administration from the PSEB on 2nd May, 1967. The Electricity Wing of Engineering Department, Chandigarh is part of Chandigarh Administration, UT of Chandigarh and is responsible for Transmission and Distribution of power supply up to consumers' door-step. The electricity department of Chandigarh is responsible for ensuing quality and continuous power supply to each and every resident of Chandigarh. The Electricity Operation Circle is headed by Superintending Engineer along with five Executive Engineers.
- 1.3 The Electricity Wing of Engineering Department, Chandigarh of UT Administration of Chandigarh, hereinafter called "EWEDC", a deemed licensee under section 14 of the Electricity Act 2003, is carrying out the business of transmission, distribution and retail supply of electricity in Chandigarh (UT). The Electricity Wing of Engineering Department, Chandigarh (EWEDC) has been allowed to function as an integrated distribution licensee of Union Territory of Chandigarh. The Electricity Wing of Engineering Department, Chandigarh doesn't have its own generation and procures power from its allocation from central generating stations NTPC, NHPC, NPCIL, BBMB, SJVNL and THDC. The remaining is met through short term purchase under bilateral transactions and power exchange.
- 1.4 All the sectors of Chandigarh are electrified and any desiring consumer can avail power supply by submitting requisition in the prescribed form to the appropriate office of the Department subject to fulfilment of the requisite conditions and payment of charges. EWEDC is under control of Administration of Union Territory of Chandigarh and the maintenance of the accounts or Income and expenditure

statement was being done on "cash" basis i.e. single entry system. However as per the directives of Hon'ble Commission, EWEDC has converted to accounting system based on Accrual Basis i.e. double entry system. EWEDC has prepared the annual accounts on commercial principle for FY 2019-20 along with Fixed Asset Register as on 31.03.2020. The same has already been submitted to AG UT.

Regulatory Process

- 1.5 EWEDC had filed its first petition for Annual Revenue Requirement and Determination of Tariff for the FY 2011-12 under section 62 of the Electricity Act, 2003 and under the JERC (Terms and Conditions for Determination of Distribution Tariff) Regulations, 2009 to the Hon'ble Commission on 13th January, 2011. The Tariff Order was issued by the Hon'ble Commission on 16th July, 2011 and the new tariff was made effective from 1st April, 2011.
- 1.6 EWEDC filed its second Petition for Tariff determination of FY 2012-13. In the Petition, EWEDC had requested for review of Tariff Order for FY 2011-12 based on the actual numbers for part year and projected ARR for FY 2012-13. The Hon'ble Commission processed the Petition and issued a Tariff Order for FY 2012-13 on 7th May, 2012 which included review for FY 2011-12. The tariff was made applicable from 1st May, 2012.
- 1.7 On 7th February, 2013, the Petitioner filed its petition for approval of provisional true up of ARR for FY 2011-12, revised estimates of ARR for FY 2012-13 and approval of ARR and Tariff for the FY 2013-14. The Hon'ble Commission issued the Tariff Order on 15th April, 2013. However, the Hon'ble Commission had not conducted the provisional true-up of ARR of the FY 2011-12 as the audited accounts were not available during that time. The tariff was made applicable from 1st May, 2013.
- 1.8 The department subsequently filed its fourth petition for determination of Aggregate Revenue Requirement (ARR) & Retail Tariff for distribution and retail sale of electricity for the FY 2014-15, Review of FY 2013-14 & Truing up of FY 2011-12 and FY 2012-13 on 20th January, 2014 according to principles outlined in the JERC Tariff Regulations, 2009. The Commission issued tariff order on 11th April, 2014.

Filing of Multi Year Tariff Petition and Annual Performance Review Petition

- 1.9 The Joint Electricity Regulatory Commission (JERC) for the State of Goa and Union Territories, in exercise of powers conferred by sub section (1) of section 181 and clauses (zd), (ze) and (zf) of sub section (2) of section 181, read with sections 61, 62, 83 and 86, of the Electricity Act 2003 (36 of 2003) and all other powers enabling it in this behalf, has issued the Multi Year Distribution Tariff Regulations, 2014, hereinafter referred to as "MYT Regulations, 2014".
- 1.10 As per the MYT Regulations, 2014, the Distribution Licensee were required to file a Business Plan for Control Period of three financial years from April 1, 2015 to March 31, 2018, which shall comprise but not be limited to detailed category-wise sales and demand projections, power procurement plan, capital investment plan, financing plan and physical targets before the Hon'ble Commission as part of the Tariff Filing before the beginning of the Control Period. However, the Control Period was postponed by a year and the revised Control Period was notified as April 1, 2016 to March 31, 2019.
- 1.11 Accordingly, the Electricity Wing of Engineering Department, Chandigarh had filed a revised Business Plan for the Control Period of FY 2016-17 to FY 2018-19 based on the available data for the FY 2014-15 and previous financial years against which the Hon'ble Commission issued an Order dated 28th December, 2015. In the Order for Business Plan, the Hon'ble Commission had directed the EWEDC for submission of MYT Petition for the Control Period FY 2016-17 to FY 2018-19 within 30 days from issuance of the Order for Business Plan.
- 1.12 As per the directives of the Hon'ble Commission, EWEDC filed Tariff Petition for approval of Annual Revenue Requirement for MYT Control period of FY 2016-17 to FY 2018-19 and determination of retail tariff for the FY 2016-17 in accordance to the principles laid down under section 61, 62 and 64 of the Electricity Act 2003, JERC MYT Regulations, 2014, provisions of National Electricity Policy & National Tariff Policy, JERC (Conduct of Business) regulations 2009 and other relevant regulations. The Hon'ble Commission in its order dated 28th April, 2016 approved True-up of FY 2011-12 to FY 2014-15, carried out performance review of FY 2015-16 and had approved Annual Revenue Requirement for FY 2016-17 to FY 2018-19 and retail tariff for FY 2016-17.

- 1.13 As per the multi-year framework outlined in MYT Regulations, 2014, the licensee is required to file Annual Performance Review petition in the subsequent years of the Control Period along with True-up of previous year and Retail Tariff proposal for ensuing year. Accordingly, in line with the MYT Regulations, 2014, Electricity Wing of Engineering Department, Chandigarh had filed the petition comprising of True-up of the FY 2015-16, performance review of the FY 2016-17 and revised ARR and retail tariff proposal for the FY 2017-18. The Hon'ble Commission in its order dated 04th May, 2017 approved True-up of the FY 2015-16, carried out performance review of the FY 2016-17 and had approved revised ARR & retail tariff for the FY 2017-18.
- 1.14 On 12th January, 2018, the Petitioner filed its petition for approval of True-up of the FY 2016-17, performance review of the FY 2017-18 and revised ARR and retail tariff proposal for the FY 2018-19. The Hon'ble Commission in its order dated 28th March, 2018 approved True-up of the FY 2016-17, carried out performance review of the FY 2017-18 and had approved revised ARR and retail tariff for the FY 2018-19.
- 1.15 As per the MYT Regulations, 2018, the Distribution Licensee were required to file a Business Plan for Control Period of three financial years from April 1, 2019 to March 31, 2022, which shall comprise but not be limited to detailed category-wise sales and demand projections, power procurement plan, capital investment plan, financing plan and physical targets before the Hon'ble Commission as part of the Tariff Filing before the beginning of the Control Period.
- 1.16 Accordingly, the Electricity Wing of Engineering Department, Chandigarh had filed a Business Plan for the Control Period of FY 2019-20 to FY 2021-22 on 29th August, 2018 based on the available data for the FY 2017-18 and previous financial years against which the Hon'ble Commission issued an Order dated 12th November, 2018.
- 1.17 EWEDC filed Tariff Petition for approval of True-up for the FY 2017-18, Annual Performance Review for the FY 2018-19 in accordance with the MYT Regulations, 2014 and Aggregate Revenue Requirement (ARR) for the 2nd control period of FY 2019-20 to FY 2021-22 & retail tariff proposal for the FY 2019-20 in accordance to the principles laid down under section 61, 62 and 64 of the Electricity Act 2003, JERC MYT Regulations, 2018, provisions of National Electricity Policy & National Tariff Policy, JERC (Conduct of Business) regulations 2009 and other relevant regulations.

The Hon'ble Commission in its order dated 20th May, 2019 approved True-up of FY 2017-18, carried out performance review of FY 2018-19 and had approved Annual Revenue Requirement for FY 2019-20 to FY 2021-22 and retail tariff for FY 2019-20.

- 1.18 Electricity Wing of Engineering Department, Chandigarh filed the petition for approval of True-up for the FY 2018-19 in accordance with the MYT Regulations, 2014, Annual Performance Review for the FY 2019-20 and revised Aggregate Revenue Requirement (ARR) & retail tariff proposal for the FY 2020-21 in accordance with the MYT Regulations, 2018.
- 1.19 Further, Electricity Wing of Engineering Department, Chandigarh is filing the instant petition for approval of True-up for the FY 2019-20, Annual Performance Review for the FY 2020-21 and revised Aggregate Revenue Requirement (ARR) & retail tariff proposal for the FY 2021-22 in accordance with the MYT Regulations, 2018.

Chapter 2: True up of FY 2019-20

- 2.1 The Hon'ble Commission in the MYT order dated 20th May, 2019 has approved ARR for the Control period of FY 2019-20 to FY 2021-22.
- 2.2 Tariff for the FY 2019-20 was approved by the Hon'ble Commission in the Tariff Order dated 20th May, 2019.
- 2.3 Further, Annual Performance Review of ARR for the FY 2019-20 was undertaken by the Hon'ble Commission in the Tariff Order dated 19th May, 2020. JERC MYT Regulations, 2018 requires that the True-up is to be done on the basis of the audited accounts for each year of the Control period.
- 2.4 The annual accounts for the FY 2019-20 have been prepared and accordingly, the truing-up for the FY 2019-20 has been prepared. The annual accounts have been forwarded to AG UT & the audited accounts shall be submitted shortly. Accordingly, the Hon'ble Commission is requested to kindly consider the same for truing-up of the FY 2019-20. The same has already been submitted to AG UT.

Energy Sales, Number of Consumers and Connected Load for FY 2019-20

- 2.5 The total energy sales for FY 2019-20 stand at 1595.55 MUs based on actuals as against 1562.34 MUs approved earlier by the Hon'ble Commission during the review of the FY 2019-20 vide its Tariff Order dated 19th May, 2020.
- 2.6 The tables below summarize the approved and actual energy sales for EWEDC for the FY 2019-20:

Table 1: Approved and Actual Sales for FY 2019-20 (in MUs)

Sl. No.	Categories	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
1	Domestic - LT	787.86	628.56	729.81
2	Domestic - HT			29.40
3	Domestic - Total	787.86	628.56	759.21
4	Commercial - LT	521.46	469.12	222.15
5	Commercial - HT			262.34
6	Commercial - Total	521.46	469.12	484.49
7	Large Supply	119.85	121.59	123.76
8	Medium Supply	128.35	208.59	106.38
9	Small Power	20.00	32.93	18.43
10	Agriculture	1.49	1.51	1.41
11	Public Lighting	17.73	14.30	14.78
12	Bulk Supply	84.15	81.57	82.88
13	Others Temporary Supply	4.40	4.16	4.20
Grand Total		1,685.29	1,562.34	1,595.55

Power Purchase Quantum and Cost

- 2.7 EWEDC meets its requirement from allocations from central generating stations like NTPC, NHPC, NPCIL and other generating stations such as BBMB, SJVNL, THDC including bilateral agreement and banking arrangements. The allocation from CGS consists of a fixed share of allocation for a year, and the Govt. of India changes the variable share of allocation from the unallocated quota, time to time. Since, during the peak summer seasons the allocation of power from various sources is inadequate, therefore the EWEDC procures power from short-term sources i.e. power exchange, UI etc.
- 2.8 The table below shows the summary of actual Power Purchase from various sources for the FY 2019-20 including Transmission Charges, UI charges and purchase from short term sources i.e. power exchange, UI etc. Further, Power Purchase Cost is inclusive of LC Charges of Rs. 1.72 Crores for the FY 2019-20 which is shown in the Schedule – 17 of Accounts.

Table 2: Power Purchase Cost for FY 2019-20 (in Rs. Crores)

Source	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
NTPC Stations	125.58	142.41	145.56
NHPC Stations	103.58	117.87	110.19
NPCIL	74.82	70.47	72.91
SJVNL	29.55	38.27	40.72
BBMB	180.38	138.11	159.47
THDC	94.49	72.30	92.08
MUNPL	-	11.95	6.07
CREST	7.38	7.47	5.35
Pvt. Solar	0.92	0.95	1.11
Aravali Power Company Private Limited	28.78	26.76	20.71
Bilateral/Power Exchange	42.65	-61.13	20.99
UI (Overdrawl)	-	7.59	28.12
REC (Solar & Non-Solar)	3.40	-	1.14
Others (PGCIL, Reactive Power, NRLDC)	58.11	62.02	66.39
LC Charges	-	-	1.72
Grand Total	749.64	635.31	772.54

2.9 As against the Commission approved total power purchase cost of Rs. 635.31 Crores for the FY 2019-20, EWEDC has incurred actual power purchase cost of Rs. 772.54 Crores. The petitioner requests the Hon'ble Commission to approve the total power purchase cost of Rs. 772.54 Crores against power purchase for the FY 2019-20.

2.10 The Hon'ble Commission had notified amendment to the JERC (Procurement of Renewable Energy) Regulations, 2010 on 22nd August, 2016. As per the amendment issued, the Petitioner has to purchase 11.50% of total energy purchase from renewable sources for the FY 2019-20 including 4.70% for Solar and 6.80% for Non-Solar.

2.11 EWEDC has also been able to meet its RPO requirement for the FY 2019-20 (solar and non-solar). Besides the REC purchase, EWEDC has also purchased energy from solar plants under gross metering and net metering, details of which are as below:

Table 3: Effective Energy Sales (Excluding Hydro) for FY 2019-20

Sl. No.	Particular	Formula	FY 2019-20
1	Energy Sales within UT (In MUs)	a	1,595.55
2	Hydro Power Purchase (In MUs)	b	1,437.05
3	Inter-State Loss	c	4.03%
4	Inter-State Loss (In MUs)	$d=b*c$	57.95
5	Intra-State Loss	e	11.91%
6	Intra-State Loss (In MUs)	$f=e*(b-d)$	164.26
7	Hydro Power Consumed (In MUs)	$g=b-d-f$	1,214.83
8	Conventional Power Consumed (In MUs)	$h=a-g$	380.72

Table 4: RPO Requirement (Solar and Non-Solar) for FY 2019-20

Particulars	RPO %	Target		Actual	RPO met (In %)
		Conventional Power Consumed (in MUs)	Units (in MUs)	Units (in MUs)	
Solar	4.70%	380.72	17.89	32.08	179.28
Non-Solar	6.80%	380.72	25.89	10.00	38.63
Total	11.50%		43.78	42.08	96.11

Table 5: Sources of Solar Power Procurement against the Solar RPO FY 2019-20

Particulars	2019-20 (in MUs)
Power generated/procured	10.16
Power procured from CREST	21.92
Solar REC purchase	-
Total Solar RPO Met	32.08

Table 6: Sources of Non-Solar Power Procurement against the Non-Solar RPO FY 2019-20

Particulars	2019-20 (in MUs)
Non- Solar REC purchase	10.00
Total Non-Solar RPO Met	10.00

Intra-State Transmission and Distribution (T&D) Loss

2.12 Considering actual sales of 1595.55 MUs as above, the actual T&D works out to be 11.91% as against a loss level of 9.40% approved by the Hon'ble Commission for the FY 2019-20 vide Tariff Order dated 19th May, 2020. The computation of T&D loss for the FY 2019-20 is provided in the table below:

Table 7: Energy Balance for FY 2019-20

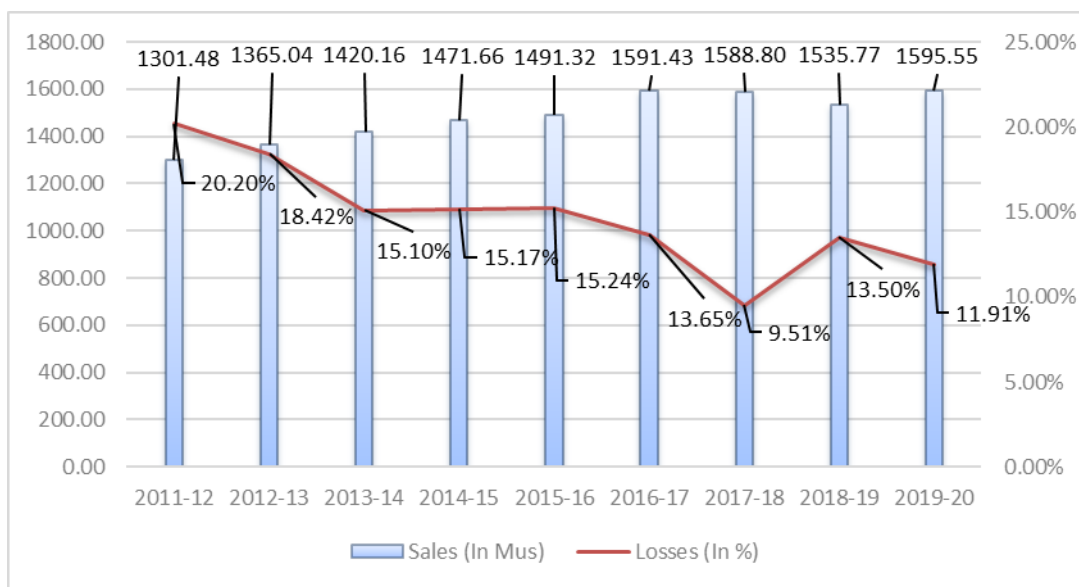
Energy Available	FY 2019-20
Units Procured	2,143.25
Less: Outside Sale - Trading	264.64
Energy Available	1,878.61
Inter-State Transmission Loss	4.03%
Transmission Loss (Mus)	75.76
Net Energy Available at UT Periphery	1,802.85
Power Available within UT	
Power procured from Gross & NET Metering Mode (In MUs)	8.44
Total Energy Available	1,811.29
Actual Energy Sales (Mus)	1,595.55
T&D Loss (%)	11.91%
T&D Loss (in MUs)	215.74
Total Energy Required at UT Periphery (MUs)	1,811.29
Demand Supply (Gap) / Surplus	0.00

2.13 It is submitted that EWEDC has been able to reduce the losses from 20.20% in the FY 2011-12 to 13.65% in the FY 2016-17. EWEDC achieved T&D loss level of 9.51% for the FY 2017-18. The sharp fall in T&D losses in the FY 2017-18 was on account of the following factors

- i. There has been increase in energy sale through UI/exchange from 36.76 MUs in FY 2016-17 to 131.74 MUs in FY 2017-18.
- ii. The excess energy sale was due to return of 48 MUs towards banked units to J&K during the FY 2017-18 against energy received in the FY 2015-16 & FY 2016-17 and sale of excess power through UI/exchange during different intervals of time.

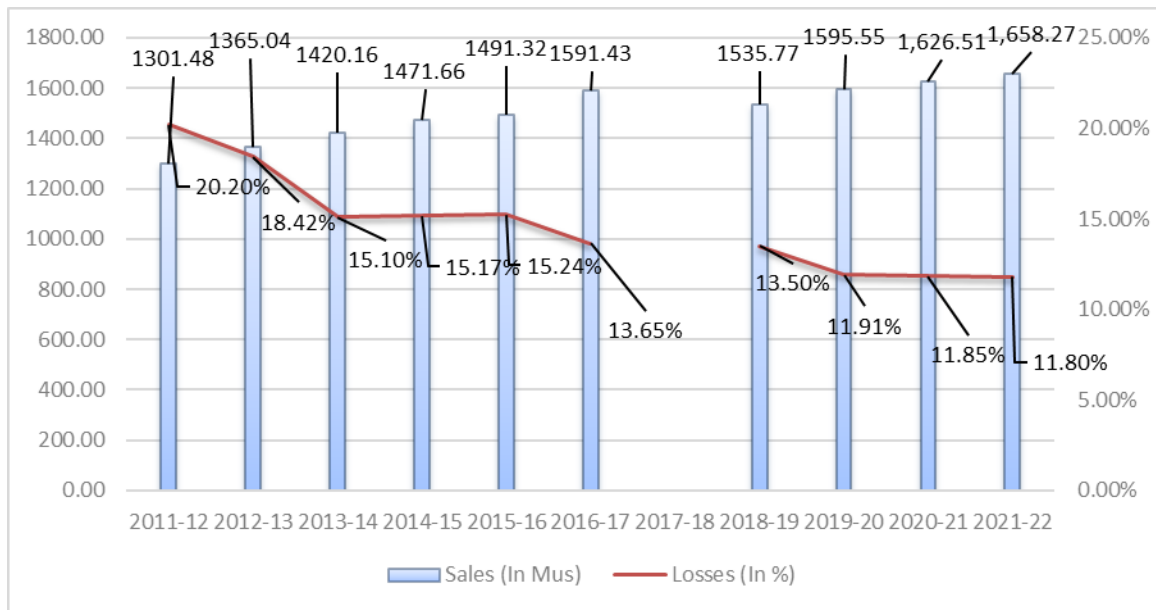
Hence, decrease in T&D loss to 9.51% during the FY 2017-18 was due to the extraordinary factors as explained above and the same should not be considered as benchmark for fixing T&D Loss targets for future years. Further, EWEDC achieved T&D loss level of 13.50% for the FY 2018-19. Therefore, The T&D loss level achieved by EWEDC for the FY 2019-20 should viewed in comparison to the T&D loss trajectory over the past 7-8 years to get a realistic and achievable T&D loss trend. EWEDC has restricted the T&D loss for the FY 2019-20 to 11.91%. It is difficult to bring the losses substantially from this level. The trajectory of loss from FY 2011-12 to FY 2019-20 is provided in the figure below:

Graph 1: T&D loss trajectory for the period FY 2011-12 to FY 2019-20



2.14 Further, EWEDC has submitted that the T&D loss level achieved by EWEDC for the FY 2019-20 should viewed in comparison to the T&D loss trajectory over the past 7-8 years (except FY 2017-18) to get a realistic and achievable T&D loss trend. EWEDC has proposed the T&D losses for the FY 2019-20, FY 2020-21 & FY 2021-22 to 11.91%, 11.85% & 11.80% respectively. The trajectory of loss from FY 2011-12 to FY 2021-22 except FY 2017-18 is provided in the figure below:

Graph 2: T&D loss trajectory for the period FY 2011-12 to FY 2021-22 (Except FY 2017-18)



2.15 Accordingly, the Hon'ble Commission is requested to kindly consider the above submissions & approve the actual distribution losses to 11.91% for the FY 2019-20 as any disallowances would have a substantial financial impact on the EWEDC.

Operation and Maintenance Expenses

2.16 The summary of approved and actual Employee Expenses, R&M Expenses and A&G Expenses as incurred by the EWEDC in the FY 2019-20 is as below:

Table 8: O&M Expenses for FY 2019-20 (in Rs. Crores)

O & M Expenses	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Employee Expenses	73.52	73.47	75.30
R & M Expenses	10.20	10.45	13.63
A & G Expenses	4.79	4.78	5.42
Total O&M Expenses	88.51	88.70	94.34

2.17 The actual Employee Expenses, R&M expenses and A&G expenses for the FY 2019-

20 is higher than the figures approved in the APR of the FY 2019-20.

- 2.18 The petitioner requests the Hon'ble Commission to approve the same on actual basis as the total O&M expenses of Rs. 94.34 Crores for the FY 2019-20.

GFA and Depreciation

- 2.19 It is submitted that EWEDC has prepared the Fixed Asset Register for the FY 2019-20 and considered the GFA accordingly. Further, depreciation for the year has been considered as per the Fixed Asset Register.

- 2.20 The table below presents the approved and actual asset details for the FY 2019-20. The Hon'ble Commission is requested to approve the same:

Table 9: Asset Addition for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Asset Addition during FY 2019-20	69.45	5.23	5.46

- 2.21 The table below presents the approved and actual depreciation during the FY 2019-20:

Table 10: Depreciation for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Depreciation for the year	12.87	11.62	15.71

- 2.22 EWEDC humbly requests the Hon'ble Commission to approve the depreciation based on actuals as recorded in the accounts.

Interest on Loan

- 2.23 The EWEDC has completed the compilation of fixed asset register incorporating all

the assets from inception till 31.03.2020. The same has also been incorporated in Annual Accounts and submitted to AG UT for audit. Previously, the assets prior to 31.03.2005 was not included in the GFA. Hence, post finalisation of FAR, GFA as per FAR as on 31.03.2020 has been considered for calculation of normative loan. Accordingly, for calculating opening normative loan for the FY 2019-20, EWEDC has considered 70% of the opening GFA as on 01.04.2019 and deducted the cumulative depreciation (considering the same as cumulative normative loan repayment) as on that date. The addition in normative loan has been considered based on 70:30 debt-equity ratio in line with the Regulations notified by the Hon'ble Commission. Repayment of the loan has been considered to be equal to the depreciation for the year, similar to the methodology considered by the Commission in APR for FY 2019-20. An interest rate of 9.55% as on April 1st, 2019 which is the SBI MCLR rate plus 100 basis points has been applied on the average normative debt in order to estimate the normative interest cost for the FY 2019-20.

2.24 The Hon'ble Commission is requested to approve the interest on normative loans as computed in the table below:

Table 11: Interest on Normative Capital Loan for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Opening Normative Loan	7.72	7.30	38.45
Add: Normative Loan during the year	48.62	3.66	3.82
Less: Normative Repayment	12.87	11.62	15.71
Closing Normative Loan	43.46	0.00	26.57
Average Normative Loan	25.59	3.65	32.51
Rate of Interest (@SBI MCLR + 100 Basis Point)	9.55%	9.55%	9.55%
Interest on Normative Loan including bank charges	2.44	0.35	3.10

Interest on Consumer Security Deposit

2.25 As per the provision of Tariff Regulations & in accordance with Clause 47(4) of Electricity Act 2003, the distribution licensee is required to pay interest on security deposit collected from the consumers, equivalent to the bank rate or more as may be specified by the Commission. The actual opening balance and addition in

consumer security deposit for the FY 2019-20 and claim of interest on security deposit is given in the table below:

Table 12: Interest on Consumer Security Deposit for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Opening Consumer Security Deposit	198.96	197.85	197.85
Net Addition During the year	8.00	8.00	2.60
Less: Deposit Refunded	-	-	4.74
Closing Consumer Security Deposit	206.96	205.85	195.72
Interest on Consumer Security Deposit	12.69	12.62	9.04

Interest on Working Capital

2.26 As per clause 31 & 52 of JERC MYT Regulations, 2018 the working capital of a licensee shall consist of

- a. Receivable of two months of billing
- b. O&M Expenses of one month
- c. 40% of Repair & maintenance expenses for one month
- d. Less consumer security deposit but excluding Bank Guarantee

2.27 The SBI 1 Year MCLR as on 1st April, 2019 plus 200 basis point i.e. 10.55% is considered for computation of interest on working capital. The EWEDC requests the Commission to approve the revised working capital requirement and interest computed as per the regulations. The same is summarized in the table below:

Table 13: Interest on Working Capital for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Two months receivables	145.82	124.93	140.33
Add: One month O&M Expenses	9.38	7.39	7.86
Add: 40% of repair & maintenance expenses for one month	0.55	0.35	0.45
Less: Consumer Security Deposit excl. BG	206.96	201.85	195.72
Total Working Capital after deduction of Consumer Security Deposit	0.00	0.00	0.00
SBI MCLR plus 200 Basis Point (%)	10.15%	10.55%	10.55%
Interest on Working Capital	0.00	0.00	0.00

Return on Equity

2.28 Regulation 27 of MYT Regulations, 2018 provides the method for calculation of Return on Equity (RoE). In line with the methodology adopted by EWEDC for calculation of normative loan as detailed above, the opening equity has also been considered on the same lines. The opening equity as 30% of GFA as per Fixed Asset Register as on 31.03.2019 & 30% of proposed capitalisation for the FY 2019-20 has been considered for arriving at the total equity for the year.

2.29 Return on Equity computed is provided in the table given below.

Table 14: Return on Net Fixed Assets for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Opening Equity	130.04	129.74	135.69
Addition in Equity	20.84	1.57	1.64
Closing Equity	150.88	131.31	137.33
Average Equity	140.46	130.52	136.51
Average Equity (Wire Business)	126.41	117.46	122.86
Average Equity (Retail Supply Business)	14.05	13.05	13.65
Return on Equity for Wire Business (%)	15.50	15.50	15.50
Return on Equity for Retail Supply Business (%)	16.00	16.00	16.00
Return on Equity for Wire Business	19.59	18.21	19.04
Return on Equity for Retail Supply Business	2.25	2.09	2.18
Return on Equity	21.84	20.30	21.23

Provision for Bad and Doubtful Debt

- 2.30 In accordance with Clause 62 of JERC MYT Regulations, 2018, the licensee gets the receivables audited, allow actual provision for bad debts up to 1% of receivables in the revenue requirement of the licensee.
- 2.31 Provision for Bad and Doubtful Debt computed is provided in the table given below.

Table 15: Provision for Bad and Doubtful Debt for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Provision for Bad and Doubtful Debt	-	-	4.34

Non-Tariff Income

- 2.32 The table below presents the approved and actual Non-Tariff Income for the FY 2019-20:

Table 16: Non-Tariff Income for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Non-Tariff Income	24.97	19.33	24.97

Revenue from Outside Sale of Power

- 2.33 As per the Accounts, EWEDC has received Rs. 78.07 Crores during the FY 2019-20

towards outside sale of power which has been reduced from the ARR for the FY 2019-20.

Revenue on Current Tariff

2.34 The billed revenue on actual sales and prevailing tariff as approved by the Commission is given in the table below.

Table 17: Revenue on Current Tariff for FY 2019-20 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Domestic - LT	353.50	282.49	309.51
Domestic - HT	6.11	12.08	15.31
Domestic - Total	359.61	294.57	324.83
Commercial - LT	244.95	137.52	143.56
Commercial - HT	86.71	164.96	164.41
Commercial - Total	331.66	302.48	307.96
Large Supply	74.09	74.92	74.53
Medium Supply	75.85	113.65	67.34
Small Power	10.32	16.61	9.65
Agriculture	0.43	0.44	0.41
Public Lighting	10.35	8.25	8.62
Bulk Supply	51.44	50.06	45.41
Others Temporary Supply	3.56	3.36	3.19
Total	917.31	864.33	841.96

FPPCA Billed during the year

2.35 EWEDC has additionally billed a total of Rs. -0.32 Crores as FPPCA from the consumers during the FY 2019-20. Total FPPCA billed for the FY 2019-20 is given in the table below:

Table 18: FPPCA billed for FY 2019-20 (in Rs. Crores)

Particulars	Approved in Review Petition T.O. dated 19th May, 2020	Actual
FPPCA	30.62	-0.32

Regulatory Surcharge Billed during the year

2.36 EWEDC has additionally billed a total of Rs. 9.91 Crores as Regulatory Surcharge from the consumers during the FY 2019-20. Total Regulatory Surcharge billed for the FY 2019-20 is given in the table below:

Table 19: Regulatory Surcharge billed for FY 2019-20 (in Rs. Crores)

Particulars	Approved in Review Petition T.O. dated 19th May, 2020	Actual
Regulatory Surcharge	10.03	9.91

Aggregate Revenue Requirement and Surplus for FY 2019-20

2.37 The Aggregate Revenue Requirement and surplus for the FY 2019-20 is as given in the table below:

Table 20: Aggregate Revenue Requirement and Surplus for True-Up of FY 2019-20 (in Rs. Crores)

Sl. No.	Particulars	Approved in T.O. dated 20th May, 2019	Approved in Review Petition T.O. dated 19th May, 2020	Actual
1	Cost of power purchase	749.64	635.31	772.54
2	Employee costs	73.52	73.47	75.30
3	Administration and general expenses	4.79	4.78	5.42
4	R&M expenses	10.20	10.45	13.63
5	Depreciation	12.87	11.62	15.71
6	Interest and finance charges	2.44	0.35	3.10
7	Interest on working capital	-	-	-
8	Return on NFA /Equity	21.84	20.30	21.23
9	Provision for Bad Debt	-	-	4.34
10	Interest on Security Deposit	12.69	12.62	9.04
11	Total Revenue Requirement	887.99	768.89	920.31
12	Less: Non-Tariff Income	24.97	19.33	24.97
13	Less: Revenue from Sale through UI	-	-	78.07
14	Net Revenue Requirement	863.02	749.56	817.27
15	Revenue from retail sales at Existing Tariff	917.31	864.33	841.96
16	FPPCA billed during the year		30.62	-0.32
17	Regulatory Surcharge billed during the year		10.03	9.91
18	Revenue Surplus/(Gap) for the Year	54.29	155.42	34.27

2.38 Based on the actual ARR and Revenue for the FY 2019-20 as per the accounts, it is observed that there is a revenue surplus of Rs. 34.27 Crores. **Therefore, EWEDC requests the Hon'ble Commission to approve the above revenue surplus of Rs. 34.27 Crores for FY 2019-20 as presented above and carry forward the same to the FY 2020-21.**

Chapter 3: Review of ARR for FY 2020-21

- 3.1 The Joint Electricity Regulatory Commission had notified the Multi Year Distribution Tariff Regulations, 2018 (MYT Regulations 2018). The regulations applies to all the distribution licensees in the state of Goa and Union Territories except Delhi. These Regulations were applicable for the Control Period of FY 2019-20 to FY 2021-22.
- 3.2 EWEDC had filed a business plan for the period of FY 2019-20 to FY 2021-22 along with requisite details as provided in JERC (Multi-Year Tariff) Regulations, 2018. Subsequently, the Hon'ble Commission had issued an order on business plan on 12th November, 2018. The Hon'ble Commission in the MYT Order dated 20th May, 2019 had approved ARR for the Control Period of FY 2019-20 to FY 2021-22 as per the MYT Regulations, 2018.
- 3.3 Regulation 11 of the MYT Regulations, 2018 states the following:

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

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

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

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

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

e) Other relevant details, if any."

- 3.4 Additionally, EWEDC had submitted Tariff petition for the FY 2020-21 including True-Up for the FY 2018-19 & APR for the FY 2019-20. The Hon'ble Commission in the Tariff Order dated 19th May, 2020 had approved the Tariff for the FY 2020-21 as per the MYT Regulations, 2018.
- 3.5 The petitioner is hereby filing annual performance review for the FY 2020-21 as per the MYT framework and request the Hon'ble Commission to consider the revision in parameters based on the 6 months actual figures and balance six months estimates.

Energy sales and Connected Load

- 3.6 The sales for the FY 2020-21 has been estimated based on CAGR of actual sales approved by the Hon'ble Commission for the FY 2013-14 to FY 2018-19. The CAGR for past five/three/one-year growth have been applied appropriately on the actual sales for the FY 2019-20 to arrive at the estimated sales for the FY 2020-21. The approved and estimated sales for full year and actual sales for six months of FY 2020-21 is given in the table below:

Table 21: Energy sales for FY 2020-21 (in MUs)

Sl. No.	Categories	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	Actual 6 Months	Estimated for FY 2020-21
1	Domestic - LT	817.41	640.05	346.42	751.61
2	Domestic - HT			8.15	30.28
3	Domestic - Total	817.41	640.05	354.57	781.89
4	Commercial - LT	535.75	474.63	71.42	224.76
5	Commercial - HT			91.87	265.42
6	Commercial - Total	535.75	474.63	163.29	490.18
7	Large Supply	119.85	121.59	59.13	124.00
8	Medium Supply	133.11	208.59	47.04	108.69
9	Small Power	20.26	32.93	7.96	18.43
10	Agriculture	1.52	1.54	0.63	1.41
11	Public Lighting	17.73	14.59	6.80	14.78
12	Bulk Supply	85.99	81.57	45.87	82.93
13	Others Temporary Supply	4.40	4.16	1.50	4.20
Grand Total		1,736.02	1,579.64	686.80	1,626.51

- 3.7 Chandigarh is land locked Union Territory in which there is no possibility of expansion and obviously there is no possibility of energy sales consumption expansion.

- 3.8 In Chandigarh there has been growth in consumers using power from their own generation from solar energy. It has also reduced the consumption from the EWEDC.
- 3.9 Further, EWEDC has already taken some energy efficiency programme. Energy efficiency brings a variety of benefits: reducing demand for energy imports, eliminating energy waste and lowering our costs on a household and economy-wide level.
- 3.10 Accordingly, it is requested that the Hon'ble Commission may kindly revise the estimate of sales for FY 2020-21 to 1626.51 MUs as proposed in the table above.

Intra-state T&D Losses

- 3.11 As per the Tariff Order dated 19th May, 2020, the T&D loss as approved by the Commission for the FY 2020-21 is 9.30% as against EWEDC's submission of 13.30%. While EWEDC is dedicated for reducing the intra-state T&D losses in the UT of Chandigarh, there are constraints in reducing the T&D loss. Further, it is submitted that the T&D losses remained stagnant without much improvement due to majority of the increase in the sales in the LT category.
- 3.12 In addition to the issue of higher LT sales, another important factor is the absence of interconnection point within the UT boundary which has been also submitted to the Hon'ble Commission in its past submissions.
- 3.13 The energy input in EWEDC is currently being metered at 400kV Nalagarh, 220kV Mohali and 220kV Dhoolkot (BBMB) which has resulted in higher T&D losses for EWEDC. The EWEDC has to bear around 3% additional losses of interstate circuit due to not having any interstate point in its boundary. In this regard it is submitted that construction of a 220/66 kV substation at Hallo Majra is under progress by M/s PGCIL. This substation shall cater to the future load growth of Chandigarh resulting in lower losses due to commissioning of an interconnection point within the UT periphery.
- 3.14 In view of the above, it is submitted that the Hon'ble Commission may kindly consider & revise the loss target to a level which is achievable under the circumstances detailed above.

- 3.15 The trend of T&D losses over the period of last 5 years upto FY 2016-17, shows that EWEDC has been able to reduce the T&D loss substantially year over year. However, further reduction within the present infrastructural conditions & constraints explained in above paras would be difficult. Accordingly, EWEDC has proposed a T&D loss target of 11.85% for the FY 2020-21.
- 3.16 In view of the above submissions, it is requested that the Hon'ble Commission may kindly consider & approve the T&D losses target for the FY 2020-21 at 11.85%.

Energy Requirement

- 3.17 For computation of energy requirement, EWEDC has estimated inter-state transmission losses for the FY 2020-21 as same as the actual inter-state transmission losses for the FY 2019-20 of 4.03%.
- 3.18 The revised energy balance for the FY 2020-21 is as given in the table below, the Hon'ble Commission is requested to approve the same:

Table 22: Energy Balance for FY 2020-21

Energy Available	FY 2020-21
Units Procured	2,151.76
Less: Outside Sale - Trading	216.13
Energy Available	1,935.63
Inter-State Transmission Loss	4.03%
Transmission Loss (Mus)	78.01
Net Energy Available at UT Periphery	1,857.62
Power procured from Gross & NET Metering Mode (In MUs)	8.58
Total Energy Available	1,866.20
Actual Energy Sales (Mus)	1,626.51
T&D Loss (%)	11.85%
T&D Loss (in MUs)	239.69
Total Energy Required at UT Periphery (MUs)	1,866.20
Demand Supply (Gap) / Surplus	0.00

Power Purchase Quantum and Cost

- 3.19 The Petitioner submits that it procures power from following sources:
- Central Generating Stations (CGS) such as that of NTPC, NHPC and NPCIL
 - Other Generating Stations such as that of SJVNL, BBMB, THDC, APCPL and MUNPL
 - Other Sources such as bilateral agreement, banking arrangement, power exchange, UI etc.
- 3.20 For the purpose of review for the FY 2020-21 power purchase quantum, EWEDC has considered actual six months power availability from various sources including short- term sources and balance six months availability has been computed based on the firm and unallocated power allocation from the various Central Generating Stations as per the recent revised allocation statement issued by Northern Regional Power Committee against the Ministry of Power letter No. NRPC/OPR/103/02/2020/10081-10108 dated 16.10.2020.
- 3.21 Shortfall in power from allocations, if any, based on the estimated sales and losses for FY 2020-21 has been considered to procure from short term sources i.e. power exchange, UI & other trading sources.
- 3.22 The actual six months power purchase quantum and cost is given in the table below:

Table 23: Actual 6 months Power Purchase Unit & Cost for FY 2020-21

Particulars	Units	Actual Cost
	(in MUs)	(in Rs. Cr.)
NTPC	201.91	78.73
NHPC	221.82	70.62
APCPL	4.15	7.33
NPCIL	91.91	32.11
SJVNL	100.73	21.30
BBMB	384.21	80.01
THDC	97.99	36.94
MUNPL	7.46	8.18
Bilateral/UI/Exchange	41.89	12.00
CREST	5.16	4.06
Pvt. Solar	0.76	0.64
PGCIL Charges		32.39
NRLDC Charges		0.07
Reactive Energy		0.04
REC Cost		-
Grand Total	1,157.99	384.41

- 3.23 The Hon'ble Commission had notified amendment to the JERC (Procurement of Renewable Energy) Regulations, 2010 on 22nd August, 2016. As per the amendment issued, the Petitioner has to purchase 14.10% of total energy purchase from renewable sources for the FY 2020-21 including 6.10% for Solar and 8.00% for Non-Solar.
- 3.24 EWEDC shall be able to meet its RPO requirement for the FY 2020-21 (solar and non-solar). Further, based on the revised sales for FY 2020-21, applicable RPO and actual renewable power/REC procured during first six months of FY 2020-21, the balance RPO compliance during the six months have been computed. Besides the REC purchase, EWEDC has also purchased energy from solar plants under gross metering and net metering. Further EWEDC has follows the methodology of adjusting the excess solar RPO compliance with Non-Solar RPO compliance, which has approved by the Hon'ble Commission in the Tariff Order dated 20th May, 2019. The details of calculations are as below:

Table 24: Effective Energy Sales (Excluding Hydro) for FY 2020-21

S. No.	Particular	Formula	FY 2020-21
1	Energy Sales within UT (In MUs)	a	1,626.51
2	Hydro Power Purchase (In MUs)	b	1,361.39
3	Inter-State Loss	c	4.03%
4	Inter-State Loss (In MUs)	$d=b*c$	54.86
5	Intra-State Loss	e	11.85%
6	Intra-State Loss (In MUs)	$f=e*(b-d)$	154.82
7	Hydro Power Consumed (In MUs)	$g=b-d-f$	1,151.71
8	Conventional Power Consumed (In MUs)	$h=a-g$	474.81

Table 25: RPO Requirement (Solar and Non-Solar) for FY 2020-21

Particulars	RPO %	Target		Estimated 2020-21	Excess RPO Procured 2020-21 (In MUs)	RPO to be Procured after adjusting excess solar RPO 2020-21 H2 (In MUs)
		Conventional Power Consumed (in MUs)	Units (in MUs)	Units (in MUs)		
Solar	6.10%	474.81	28.96	32.58	3.62	-
Non-Solar	8.00%	474.81	37.98	-	-	34.37
Total	14.10%		66.95	32.58	3.62	34.37

Table 26: Sources of Solar Power Procurement against the Solar RPO for FY 2020-21

Particulars	FY 2020-21 H1 (in MUs)	FY 2020-21 (in MUs)
Power generated/procured	0.79	3.50
Power procured from CREST	6.59	29.08
Solar REC purchase	-	-
Total Solar RPO Met	7.38	32.58

Table 27: Sources of Non-Solar Power Procurement against the Non-Solar RPO for FY 2020-21

Particulars	FY 2020-21 H1 (in MUs)	FY 2020-21 (in MUs)
Non- Solar REC purchase	-	34.37
Total Non-Solar RPO Met	-	34.37

- 3.25 The power purchase cost for FY 2020-21 is computed based on the estimated units to be procured from the generating stations as per the allocations
- The fixed cost for each plant is computed based upon the % allocation of the plant capacity to EWEDC and corresponding annual fixed charges approved for the generating stations as per their recent tariff orders approved by CERC. For generating plants where tariff orders are still pending, fixed charges from first six months of FY 2020-21 have been considered.
 - The variable charge for the thermal and nuclear power plants has been considered based on the actual variable charge during the first six months of FY 2020-21.
 - In case of BBMB, the average rate of power as per the recent invoices have been considered for the purpose of projections.
 - The generation units available from thermal and nuclear plant are computed considering the average PLF of the plants in past three years. For hydel plants, the design energy or actual generation in the past three years has been considered as the basis for projections.
 - The deficit in energy is proposed to be met through short term power.

f. PGCIL, NRLDC and reactive Energy charges are computed based upon the half yearly figures available and have been pro-rated for the balance period.

3.26 Based on the actual six months power purchase cost and projected six months power purchase quantum and cost, the revised estimation of annual power purchase units and cost is summarized in the table below:

Table 28: Estimated Power Purchase Quantum and Cost for FY 2020-21

Particulars	Approved in T.O. dated 20th May, 2019		Approved in T.O. dated 19th May, 2020		Estimated	
	Units (in MUs)	Cost (in Rs. Cr.)	Units (in MUs)	Cost (in Rs. Cr.)	Units (in MUs)	Cost (in Rs. Cr.)
NTPC	311.43	130.14	346.97	142.13	378.57	158.42
NHPC	286.83	107.21	263.99	105.22	306.42	115.21
APCPL	52.86	29.93	43.71	33.78	11.78	17.08
NPCIL	194.62	78.56	167.35	62.99	176.47	63.48
SJVNL	110.42	30.60	97.37	34.93	127.61	33.69
BBMB	622.31	189.40	633.97	131.67	694.37	164.74
THDC	174.78	97.87	172.63	75.59	183.95	90.88
MUNPL	-	-	19.39	12.76	7.70	8.38
Bilateral/UI/Exchange	151.97	69.38	-39.52	-12.29	264.90	79.69
CREST	7.70	7.38	9.67	7.47	6.94	5.53
Pvt. Solar	1.10	0.92	26.09	8.20	1.64	1.19
PGCIL Charges		59.27		63.26		74.93
NRLDC Charges		-		-		0.15
Reactive Energy		-		-		0.08
REC Cost		5.11		-		4.16
Grand Total	1,914.02	805.77	1,741.61	665.72	2,160.34	817.60

3.27 While the Commission had approved a total power purchase cost of Rs. 665.72 Crores for FY 2020-21 in the Tariff order dated 19th May, 2020, the estimated power purchase cost is higher primarily on account of increase in per unit rate and also higher projected units.

3.28 In view of above, EWEDC proposes total power purchase units of 2160.34 MUs and power purchase cost of Rs. 817.60 Crores for the FY 2020-21.

3.29 The Hon'ble Commission may kindly consider the above submissions and approve the power purchase units & cost as proposed.

Operations and Maintenance Expenses

- 3.30 Operation & Maintenance Expenses consists of three elements viz. Employee Expenses, A&G Expenses and R&M Expenses. As per the MYT Regulations, 2018, O&M expenses shall be treated as controllable parameter and shall not be revised except those attributable to directions of the Hon'ble Commission.
- 3.31 EWEDC has estimated the Employee Expenses, A&G Expenses and R&M Expenses for the FY 2020-21 based on the actual for the period April, 2020 to September, 2020 and projected figures for the period of October, 2020 to March, 2021.
- 3.32 The actual O&M expenses for first six months of FY 2020-21 under the three heads Employee expenses, R&M expenses and A&G expenses are summarized in table below:

Table 29: Actual O&M Expense for six months of FY 2020-21 (in Rs. Crores)

Particulars	Actual FY 2020-21 (Apr-Sep)
Employee Expenses	43.05
R&M Expenses	4.86
A&G Expenses	3.11
Total O&M Expenses	51.02

- 3.33 Based on the actual for six months, the estimated figures of various heads under O&M expenses for the FY 2020-21 is provided in the table below along with the respective approved expenses:

Table 30: Approved and Estimated O&M Expenses for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
Employee Expenses	76.26	76.16	86.11
R&M Expenses	10.57	10.81	10.81
A&G Expenses	5.00	4.99	6.22
Total O&M Expenses	91.83	91.96	103.13

- 3.34 The Hon'ble Commission is requested to consider and approve total O&M expenses as estimated by EWEDC in the table above.

Capital Expenditure and Capitalization

3.35 The Hon'ble Commission had approved a capital expenditure in the Tariff Order dated 19th May, 2020 of Rs. 135.87 Crores for the FY 2020-21. EWEDC has submitted below the actual capital expenditure for the 1st half of FY 2020-21 & total estimated expenditure planned to be incurred in the FY 2020-21. Further, capitalisation details for the year are also provided in the table.

Table 31: Capital Expenditure and Capitalization FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	Actual FY 2020-21 (Apr-Sep)	FY 2020-21 (Estimated)
Capital Expenditure	131.89	135.87	3.13	25.58
Capitalization	67.14	86.08	3.96	5.00

3.36 The Hon'ble Commission is requested to consider and approve the total Capital Expenditure & Capitalization for the FY 2020-21 as computed in the table above.

GFA and Depreciation

3.37 It is submitted that EWEDC has prepared the Fixed Asset Register for the FY 2019-20. EWEDC has considered the closing GFA for the FY 2019-20 amounting to Rs. 457.77 Crores as opening GFA for the FY 2020-21.

3.38 The table below presents the approved and estimated asset details for the FY 2019-20.

3.39 EWEDC requests the Hon'ble Commission to approve the projected value of fixed assets in the table below:

Table 32: Approved and Estimated Assets Addition for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2019-20 (Actual)	FY 2020-21 (Estimated)
Opening GFA	522.78	457.54	452.31	457.77
Asset Capitalized	67.14	86.08	5.46	5.00
Closing GFA	589.92	543.62	457.77	462.77

3.40 Depreciation has been calculated on basis of the opening GFA & proposed additions during the FY 2020-21 at the average rate of FY 2019-20 as per the Fixed Asset & Depreciation Register as on 31.03.2020. The approved and revised depreciation for FY 2020-21 is provided below:

Table 33: Approved and Estimated Depreciation for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
Opening Gross Fixed Assets (a-b)	408.58	335.71	457.77
Addition of assets during the year	67.14	86.08	5.00
Adjustment During the FY	-	-	-
Gross Fixed assets at the end of the year	475.72	421.78	462.77
Average Assets	442.15	378.75	460.27
Average Rate of Depreciation	3.44%	3.49%	3.45%
Depreciation for the year	15.22	13.21	15.89

Interest on Loan

- 3.41 In line with the methodology adopted by EWEDC for consideration of GFA as detailed above, the opening normative loan has also been considered on the same lines. The opening normative loan has been considered as 70% of GFA as per Fixed Asset Register as on 31.03.2020 reduced by the Accumulated Depreciation as on that date. Further, 70% of proposed capitalisation for the FY 2020-21 has been considered as addition to the normative loan.
- 3.42 Repayment of the normative loan during FY 2020-21 has been considered equivalent to the depreciation for the year in line with the MYT Regulations.
- 3.43 The interest at the SBI MCLR rate as on April 1st, 2020 plus 100 basis points i.e. 8.75% has been applied on the average normative debt in order to project the interest on normative loans for FY 2020-21. The Hon'ble Commission is requested to approve the interest on normative loans as computed in the table below:

Table 34: Approved and Estimated Interest on Normative Loan for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
Opening Normative Loan	43.46	-	26.57
Add: Normative Loan during the year	47.00	60.25	3.50
Less: Normative Repayment	15.22	13.21	15.89
Closing Normative Loan	75.24	47.04	14.18
Average Normative Loan	59.35	23.52	20.37
Rate of Interest	9.55%	8.85%	8.75%
Interest on Normative Loan including bank charges	5.67	2.08	1.78

Interest on Working Capital

3.44 As per clause 31 & 52 of JERC MYT Regulations, 2018 the working capital of a licensee shall consist of

- a. Receivable of two months of billing
- b. O&M Expenses of one month
- c. 40% of Repair & maintenance expenses for one month
- d. Less consumer security deposit but excluding Bank Guarantee

3.45 The SBI 1 Year MCLR as on 1st April, 2020 plus 200 basis point i.e. 9.75% is considered for computation of interest on working capital. The EWEDC requests the Commission to approve the revised working capital requirement and interest computed as per the regulations. The same is summarized in the table below:

Table 35: Interest on Working Capital for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
Two months receivables	155.29	131.53	155.10
Add: One month O&M Expenses	7.65	7.66	8.59
Add: 40% of repair & maintenance expenses for one month	0.35	0.36	0.36
Less: Consumer Security Deposit excl. BG	210.96	209.85	199.72
Total Working Capital after deduction of Consumer Security Deposit	0.00	0.00	0.00
Interest Rate (%)	10.15%	10.55%	9.75%
Interest on Working Capital	0.00	0.00	0.00

Interest on Consumer Security Deposit

3.46 In accordance with Clause 47(4) of Electricity Act 2003, the distribution licensee is required to pay interest on security deposit collected from the consumers, equivalent to the bank rate as approved by the Hon'ble Commission. Opening consumer security deposit has been considered based on the actual closing for FY 2019-20. It is estimated that total addition during the year shall be Rs. 8.00 Crores. The opening & closing balance estimated addition during the FY 2019-20 and claim of interest on security deposit is given in the table below, EWEDC requests the Commission to approve the same.

Table 36: Interest on Consumer Security Deposit for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
Opening Consumer Security Deposit	206.96	205.85	195.72
Net Addition During the year	8.00	8.00	8.00
Closing Consumer Security Deposit	214.96	213.85	203.72
Average Deposit	210.96	209.85	199.72
Bank Rate	6.25%	6.25%	6.25%
Interest on Consumer Security Deposit	13.19	13.12	12.48

Return on Equity

3.47 Regulation 27 of MYT Regulations, 2018 provides the method for calculation of Return on Equity (RoE). In line with the methodology adopted by EWEDC for calculation of normative loan as detailed above, the opening equity has also been considered on the same lines. The opening equity as 30% of GFA as per Fixed Asset Register as on 31.03.2020 & 30% of proposed capitalisation for the FY 2020-21 has been considered for arriving at the total equity for the year. The proposed RoE for FY 2020-21 is provided in the table as below:

Table 37: Approved and Estimated Return on Equity for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
Opening Equity	150.88	131.31	137.33
Additions on account of new capitalisation	20.14	25.82	1.50
Closing Equity	171.02	157.13	138.83
Average Equity	160.95	144.22	138.08
Average Equity (Wires Business)	144.86	129.80	124.27
Average Equity (Retail Supply Business)	16.10	14.42	13.81
Return on Equity for Wires Business (%)	15.50%	15.50%	15.50%
Return on Equity for Retail Supply Business (%)	16.00%	16.00%	16.00%
Return on Equity for Wires Business	22.45	20.12	19.26
Return on Equity for Retail Supply Business	2.58	2.31	2.21
Return on Equity	25.03	22.43	21.47

Provision for Bad and Doubtful Debt

- 3.48 In accordance with Clause 62 of JERC MYT Regulations, 2018, the licensee gets the receivables audited, allow actual provision for bad debts up to 1% of receivables in the revenue requirement of the licensee.
- 3.49 In view of the above para & outstanding dues of Rs. 19.12 Crores from permanently disconnected consumers as on 31st March, 2020, EWEDC has proposed the provision for bad and doubtful debts for FY 2020-21 @ 1% of the estimated receivables of Rs. 930.57 Crores for the FY 2020-21. Accordingly, EWEDC has estimated the provision of bad debt of Rs. 9.31 Crores for the FY 2020-21.

Non-Tariff Income

- 3.50 Non-Tariff Income for FY 2020-21 has been estimated based on the actual Non-Tariff Income for the 1st six months of the year. The approved and the estimated figures are provided in the table below:

Table 38: Approved and Estimated Non-Tariff Income for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	Actual FY 2020-21 (Apr-Sep)	FY 2020-21 (Estimated)
Non-Tariff Income	24.97	19.33	8.88	17.77

Revenue on Current Tariff

- 3.51 The revised estimation of revenue based on the estimated sales and approved tariff for FY 2020-21 is provided in the table below:

Table 39: Approved and Estimated Revenue on Existing Tariff for FY 2020-21 (in Rs. Crores)

S. No.	Category of Consumers	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
A	Domestic - LT	287.60	377.14
B	Domestic - HT	12.30	14.97
C	Commercial - LT	139.10	148.77
D	Commercial - HT	166.83	170.35
E	Large Supply	74.92	78.47
F	Medium Supply	113.65	68.50
G	Small Power	16.61	9.65
H	Agriculture	0.45	0.41
I	Public Lighting	8.41	8.46
J	Bulk Supply	50.06	50.67
K	Others Temporary Supply	3.36	3.18
	Total	873.29	930.57

FPPCA Billed during the year

3.52 EWEDC has additionally billed a total of Rs. 1.15 Crores as FPPCA from the consumers during the first six months of FY 2020-21. The same has been considered towards revenue for FPPCA for the FY 2020-21.

Regulatory Surcharge Billed during the year

3.53 EWEDC has estimated a total of Rs. 0.01 Crores as Regulatory Surcharge from the consumers for the FY 2020-21. In the Tariff Order dated 20th May, 2019, the Hon'ble Commission discontinued the Regulatory Surcharge from the FY 2019-20 onwards. EWEDC followed the instruction given by the Hon'ble Commission after issuing the Order dated 20th May, 2019. The Hon'ble Commission may kindly be considered the same towards Regulatory Surcharge for the FY 2020-21, is provided in the table below.

Table 40: Approved and Estimated Regulatory Surcharge for FY 2020-21 (in Rs. Crores)

Particulars	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
Regulatory Surcharge	-	0.01

Estimated Aggregate Revenue Requirement and Surplus for FY 2020-21

3.54 Based on the revised ARR and revenue projection, the revenue surplus for FY 2020-21 shall be provided in the table below:

Table 41: Approved and Estimated Aggregate Revenue Requirement for the FY 2020-21 (in Rs. Crores)

S. No.	Particulars	Approved in T.O. dated 20th May, 2019	Approved in T.O. dated 19th May, 2020	FY 2020-21 (Estimated)
1	Cost of power purchase for full year	805.77	665.72	817.60
2	Employee costs	76.26	76.16	86.11
3	R&M expenses	10.57	10.81	10.81
4	Administration and general expenses	5.00	4.99	6.22
5	Depreciation	15.22	13.21	15.89
6	Interest and finance charges	5.67	2.08	1.78
7	Interest on working capital	0.00	0.00	0.00
8	Return on Equity	25.03	22.43	21.47
9	Provision for Bad Debt	0.00	0.00	9.31
10	Interest on Consumer Security Deposit	13.19	13.12	12.48
11	Total Revenue Requirement	956.70	808.52	981.66
12	Less: Non-Tariff Income	24.97	19.33	17.77
13	Less: Revenue from Sale through UI	-	-	52.95
14	Net Revenue Requirement (11-12-13)	931.73	789.18	910.95
15	Revenue from retail sales		873.29	930.57
16	FPPCA		-	1.15
17	Regulatory Surcharge		-	0.01
18	Revenue Surplus/(Gap) for the Year		84.12	20.78

3.55 **The revenue surplus determined for the FY 2020-21 amounts to Rs. 20.78 Crores and the Hon'ble Commission is requested to approve the same. This revenue surplus has been carried forward to FY 2021-22.**

Chapter 4: Approval of the various ARR Components for FY 2021-22

4.1 The Joint Electricity Regulatory Commission has notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Multi Year Distribution Tariff) Regulations, 2018 (Hereinafter referred as "MYT Regulations 2018"). The regulations apply to all the distribution licensees in the state of Goa and Union Territories except Delhi i.e. Andaman & Nicobar island, Dadra & Nagar Haveli, Daman & Diu, Chandigarh, Lakshadweep and Puducherry. These Regulations are applicable for the Control Period FY 2019-20 to FY 2021-22.

4.2 EWEDC had filed the business plan for the period of FY 2019-20 to FY 2021-22 along with requisite details as provided in MYT Regulations 2018. Subsequently, the Hon'ble Commission had issued an order on business plan on 12th November, 2018. The Hon'ble Commission in the MYT Order dated 20th May, 2019 had approved ARR for the Control Period of FY 2019-20 to FY 2021-22 as per the MYT Regulations, 2018.

4.3 Regulation 11 of the MYT Regulations, 2018 states the following:

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

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

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

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

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

e) Other relevant details, if any."

4.4 The petitioner is hereby filing the review of ARR for FY 2021-22 and Tariff proposal for the year based on the changes in uncontrollable parameters i.e. sales, power purchase etc. as per the MYT framework and request the Hon'ble Commission to consider the revision in the ARR based on the actual of FY 2019-20 and 6 months actual for FY 2020-21. The section below covers each parameter in detail along with justification for revision.

Revised Projections for Number of Consumers, Connected Load and Energy sales

4.5 The number of consumers, connected load & energy sales for the FY 2021-22 has been projected based on CAGR of actual figures approved by the Hon'ble Commission for the FY 2013-14 to FY 2018-19. The CAGR for past five/three/one-year growth have been applied year over year appropriately on the actual figures for the FY 2019-20 to arrive at the projected number of consumers, connected load & Energy sales for the FY 2021-22. The calculation of CAGR & revised projection of number of consumers, connected load & energy sales is provided in Tables below.

Table 42: Calculation of CAGR for Number of Consumers

Category	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	CAGR for 5 Years	CAGR for 3	CAGR for 1 Year
	Actual	Actual	Actual	Actual	Actual	Actual			
Domestic	174,407	183,211	188,375	191,436	212,499	194,558	2.21%	1.08%	-8.44%
Commercial	21,447	22,143	22,661	23,493	25,942	24,603	2.78%	2.78%	-5.16%
Large Supply	105	108	103	99	97	127	3.88%	7.23%	30.93%
Medium Supply	1,154	1,197	1,255	1,288	1,305	1,394	3.85%	3.56%	6.82%
Small Power	1,285	1,275	1,269	1,275	1,281	1,418	1.99%	3.77%	10.69%
Agriculture	122	121	120	119	124	122	0.00%	0.55%	-1.61%
Public Lighting	846	886	978	1,082	1,168	1,217	7.54%	7.56%	4.20%
Bulk Supply	529	592	667	732	637	587	2.10%	-4.17%	-7.85%
Others Temporary Supply	737	620	573	437	386	357	-13.50%	-14.59%	-7.51%
Total	200,632	210,153	216,001	219,961	243,439	224,383			

Table 43: Category wise Number of Consumers considered for FY 2021-22

Category	2019-20	CAGR Used	2020-21	2021-22
	Actual (UnAudited)		Estimated	Projected
Domestic - LT	197,519	2.21%	201,886	206,349
Domestic - HT	75	2.21%	77	78
Commercial - LT	25,351	2.78%	26,057	26,782
Commercial - HT	424	2.78%	436	448
Large Supply	98	3.88%	102	106
Medium Supply	1,270	3.85%	1,319	1,370
Small Power	1,311	3.77%	1,360	1,412
Agriculture	122	0.55%	123	123
Public Lighting	1,308	4.20%	1,363	1,420
Bulk Supply	560	2.10%	572	584
Others Temporary Supply	413	0.00%	413	413
Total	228,451		233,706	239,085

4.6 It is submitted that the Hon'ble Commission may kindly consider and approve the number of consumers as projected above.

Table 44: Calculation of CAGR for Connected Load

Category	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	CAGR for	CAGR for	CAGR for
	Actual	Actual	Actual	Actual	Actual	Actual	5 Years	3 Years	1 Year
Domestic	773,459	794,926	818,172	850,347	909,069	896,687	3.00%	3.10%	-1.36%
Commercial	360,348	383,574	400,437	424,746	446,005	454,578	4.76%	4.32%	1.92%
Large Supply	69,671	71,762	71,904	70,044	69,431	69,231	-0.13%	-1.25%	-0.29%
Medium Supply	62,011	65,907	70,162	71,457	72,362	76,548	4.30%	2.95%	5.78%
Small Power	19,015	19,268	19,364	19,565	19,717	22,321	3.26%	4.85%	13.21%
Agriculture	715	722	737	748	843	835	3.14%	4.23%	-1.04%
Public Lighting	5,791	5,956	6,243	6,660	6,756	4,911	-3.24%	-7.69%	-27.32%
Bulk Supply	41,299	41,464	41,916	42,454	42,253	42,053	0.36%	0.11%	-0.47%
Others Temporary Supply	4,229	3,510	3,250	2,480	2,191	32,529	50.39%	115.51%	1384.66%
Total	1,336,538	1,387,089	1,432,185	1,488,501	1,568,627	1,599,693			

Table 45: Category wise Connected Load considered for FY 2021-22 (In KW)

Category	2019-20	CAGR Used	2020-21	2021-22
	Actual (UnAudited)		Estimated	Projected
Domestic - LT	868,549	3.00%	894,613	921,458
Domestic - HT	34,921	3.00%	35,969	37,048
Commercial - LT	217,195	4.76%	227,524	238,344
Commercial - HT	236,099	4.76%	247,327	259,089
Large Supply	68,639	0.00%	68,639	68,639
Medium Supply	69,572	4.30%	72,565	75,687
Small Power	21,368	4.85%	22,404	23,491
Agriculture	834	4.23%	869	906
Public Lighting	4,583	0.00%	4,583	4,583
Bulk Supply	41,653	0.36%	41,804	41,955
Others Temporary Supply	2,587	0.00%	2,587	2,587
Total	1,566,000		1,618,884	1,673,788

4.7 It is submitted that the Hon'ble Commission may kindly consider and approve the connected load as projected above.

Table 46: Calculation of CAGR for Energy Sales

Category	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	CAGR for 5 Years	CAGR for 3 Years	CAGR for 1 Year
	Actual	Actual	Actual	Actual	Actual	Actual			
Domestic	608.24	655.38	658.50	721.70	731.94	704.67	2.99%	2.28%	-3.73%
Commercial	446.18	460.21	463.34	498.68	494.02	472.98	1.17%	0.69%	-4.26%
Large Supply	123.94	117.20	131.84	126.74	119.85	125.15	0.19%	-1.72%	4.42%
Medium Supply	104.53	103.58	110.94	116.08	119.33	116.40	2.17%	1.62%	-2.45%
Small Power	20.36	20.50	19.01	19.53	19.50	18.87	-1.51%	-0.24%	-3.26%
Agriculture	1.46	1.67	1.49	1.30	1.43	1.36	-1.34%	-2.87%	-4.60%
Public Lighting	21.20	21.67	22.50	21.83	17.73	15.09	-6.57%	-12.46%	-14.85%
Bulk Supply	86.56	83.49	77.19	80.60	80.60	77.31	-2.23%	0.06%	-4.08%
Others Temporary Supply	7.68	7.97	6.52	4.98	4.40	3.93	-12.56%	-15.56%	-10.76%
Total	1,420.15	1,471.67	1,491.32	1,591.43	1,588.80	1,535.77			

Table 47: Category wise Energy Sales considered for FY 2021-22 (In MUs)

Category	2019-20	CAGR Used	2020-21	2021-22
	Actual (UnAudited)		Estimated	Projected
Domestic - LT	729.81	2.99%	751.61	774.06
Domestic - HT	29.40	2.99%	30.28	31.18
Commercial - LT	222.15	1.17%	224.76	227.39
Commercial - HT	262.34	1.17%	265.42	268.54
Large Supply	123.76	0.19%	124.00	124.24
Medium Supply	106.38	2.17%	108.69	111.05
Small Power	18.43	0.00%	18.43	18.43
Agriculture	1.41	0.00%	1.41	1.41
Public Lighting	14.78	0.00%	14.78	14.78
Bulk Supply	82.88	0.06%	82.93	82.97
Others Temporary Supply	4.20	0.00%	4.20	4.20
Total	1,595.55		1,626.51	1,658.27

- 4.8 Chandigarh is land locked Union Territory in which there is no possibility of expansion and obviously there is no possibility of energy sales consumption expansion.
- 4.9 In Chandigarh there has been growth in consumers using power from their own generation from solar energy. It has also reduced the consumption from the EWEDC.
- 4.10 Further, EWEDC has already taken some energy efficiency programme. Energy efficiency brings a variety of benefits: reducing demand for energy imports, eliminating energy waste and lowering our costs on a household and economy-wide level.
- 4.11 The revised energy balance for the FY 2021-22 is as given in the table below:

Table 48: Projected Category wise Energy Sales for FY 2021-22 (in MUs)

Sl. No.	Category	Approved in T.O. dated 20th May, 2019	Projected
1	Domestic - LT	848.06	774.06
2	Domestic - HT		31.18
3	Domestic - Total	848.06	805.25
4	Commercial - LT	550.43	227.39
5	Commercial - HT		268.54
6	Commercial - Total	550.43	495.93
7	Large Supply	119.85	124.24
8	Medium Supply	138.05	111.05
9	Small Power	20.52	18.43
10	Agriculture	1.55	1.41
11	Public Lighting	17.73	14.78
12	Bulk Supply	87.86	82.97
13	Others Temporary Supply	4.40	4.20
Total		1,788.45	1,658.27

4.12 In view of the above submissions it is requested that the Hon'ble Commission may kindly consider & approve the same as projected above for the FY 2021-22.

Energy Availability and Power Purchase Quantum

4.13 Since EWEDC does not have any generation capacity of its own, it relies entirely on the allocation of power from the Central Generating Stations like NTPC, NHPC, BBMB, NPCIL, SJVNL, APCPL, MUNPL etc. The current firm and unallocated power allocation from the various Central Generating Stations have been considered while projecting the power purchase from various generating stations.

4.14 The Energy availability to EWEDC from various plants is considered on the below mentioned methodology

- a. The current firm and unallocated power allocation from the various Central Generating Stations have been considered as per the recent revised allocation statement issued by Northern Regional Power Committee against the Ministry of Power letter No. NRPC/OPR/103/02/2020/10081-10108 dated 16.10.2020. Current allocation from different plants to UT of Chandigarh has been considered for the availability to EWEDC for the FY 2021-22.
 - b. The generation units available from each plant are computed considering the average PLF of the plants in past three years/design energy.
 - c. The deficit in energy is proposed to be met through short term power.
- 4.15 The availability of power from various sources have been considered as per the following methodology:
- a. NTPC: The net energy generated from the generating stations of NTPC has been estimated by considering average PLF of past three years and normative auxiliary consumption as per CERC Tariff Regulations. Based upon the generated energy from each plant and its corresponding entitlement to the UT of Chandigarh, the unit availability has been calculated.
 - b. NHPC: The energy generated from the generating stations of NHPC has been estimated by considering design energy of the corresponding stations. Based upon the energy generated by each plant and its corresponding entitlement to the UT of Chandigarh, the unit availability has been calculated.
 - c. NPCIL: The energy generated from the generating stations of NPCIL has been estimated by considering average PLF of past three years. Based upon the generated energy from each plant and its corresponding entitlement to the UT of Chandigarh, the unit availability has been calculated.

- d. SJVNL: The estimation of energy generated from the Naphtha Jhakri generating station has been done based upon the average generation of past three years while for the Rampur hydro station it is estimated by considering design energy of the power plant. Based upon the generated energy from each plant, the unit availability to the UT of Chandigarh has been calculated.

 - e. BBMB: The UT of Chandigarh has been allocated fix quota of 1LU and 10 LU per day from the BBMB plant. In addition to that 3.50% of the plant capacity has been allocated to the UT of Chandigarh. The availability of power from BBMB has been considered based on the average generation of past three years.

 - f. THDC: The unit generation from the Koteshwar and Tehri plants has been estimated based upon the average generation of past three years while the energy available to the UT of Chandigarh for the Control Period has been calculated based upon the entitlement.

 - g. APCPL: The energy generated from the Jhajjar has been estimated by considering design energy of the stations. Based upon the energy generated by the plant and its corresponding entitlement to the UT of Chandigarh, the unit availability has been calculated.

 - h. MUNPL: The energy generated from the Meja has been estimated by considering design energy of the stations. Based upon the energy generated by the plant and its corresponding entitlement to the UT of Chandigarh, the unit availability has been calculated.
- 4.16 Based on the above assumptions and methodology, the power availability to EWEDC from various generating stations for the FY 2021-22 is as summarized below:

Table 49: Energy Allocation from different plants for FY 2021-22

S. No.	Source	Name of Project	Type	Capacity	Total Avg Entitlement in %	Entitlement in MW
1	NTPC	Singrauli	Coal	2000	0.00	0.00
2		Rihand I	Coal	1000	1.00	10.00
3		Rihand II	Coal	1000	0.80	8.00
4		Rihand III	Coal	1000	0.55	5.45
5		Unchahar I	Coal	420	0.48	2.02
6		Unchahar II	Coal	420	0.71	2.98
7		Unchahar III	Coal	210	0.48	1.01
8		Unchahar IV	Coal	500	0.84	4.19
9		Anta	Gas	419	1.19	4.99
10		Auriya	Gas	663	0.75	4.97
11		Dadri	Gas	830	0.61	5.06
12		Kahalgaon II	Coal	1500	0.20	3.00
13		Dadri II	Coal	980	0.00	0.00
14		Koldam Hydro	Hydel	800	0.79	6.32
15		Singrauli Hydro	Hydel	8	0.00	0.00
16		Tanda II	Coal	660	0.39	2.59
17	NHPC	Salal	Hydel	690	0.27	1.86
18		Tanakpur	Hydel	94	1.28	1.20
19		Chamera I	Hydel	540	3.90	21.06
20		Chamera II	Hydel	300	0.67	2.01
21		Uri	Hydel	480	0.62	2.98
22		Dhauliganga	Hydel	280	0.72	2.02
23		Dulhasti	Hydel	390	0.47	1.83
24		Sewa II	Hydel	120	0.83	1.00
25		URI II	Hydel	240	0.63	1.52
26		Chamara III	Hydel	231	0.60	1.39
27		Parbati-III	Hydel	520	0.60	3.12
28	K. Ganga	Hydel	330	0.00	0.00	
29	APCPL	Jhajjar (Aravali)	Coal	1500	0.00	0.00
30	NPCIL	NAPP	Nuclear	440	1.14	5.02
31		RAPP (#3 and #4)	Nuclear	440	0.00	0.00
32		RAPP (#5 and #6)	Nuclear	440	0.68	2.99
33	SJVNL	NATHPA JHAKRI	Hydel	1500	0.53	7.95
34		Rampur	Hydel	412	0.00	0.00
35	BBMB	BBMB 3.5%	Hydel	1325	3.50	46.38
36		BBMB 1 LU	Hydel	1 LU per day		
37		BBMB 10 LU	Hydel	10 LU per day		
38		DEHAR	Hydel	990	3.50	34.65
39		PONG	Hydel	396	3.50	13.86
40	THDC	Koteshwar	Hydel	400	0.36	1.44
41		Tehri	Hydel	1000	4.60	46.00
42	MUNPL	Meja	Coal	660.00	0.23	1.52

4.17 Based on the above entitlements and reasonable assumptions, the energy availability to EWEDC from various generating stations during the FY 2021-22 is as summarized below:

Table 50: Energy Available from different plants for FY 2021-22 (in MUs)

S. No.	Source	Name of Project	Approved in T.O. dated 20th May, 2019	Projected
1	NTPC	Singrauli	3.94	10.43
2		Rihand I	66.99	60.17
3		Rihand II	53.98	61.06
4		Rihand III	37.72	46.03
5		Unchahar I	12.24	10.02
6		Unchahar II	24.79	14.93
7		Unchahar III	6.37	7.96
8		Unchahar IV	-	27.23
9		Anta	0.27	6.14
10		Auriya	3.24	10.56
11		Dadri	21.28	29.50
12		Kahalgaon II	17.82	19.49
13		Dadri II	10.36	2.85
14		Koldam Hydro	52.44	48.79
15		Singrauli Hydro	-	0.26
16		Tanda II	-	22.03
17	NHPC	Salal	7.95	9.94
18		Tanakpur	3.48	5.09
19		Chamera I	77.62	97.26
20		Chamera II	31.90	17.22
21		Uri	15.88	21.18
22		Dhauliganga	22.19	27.07
23		Dulhasti	39.33	44.39
24		Sewa II	8.14	13.29
25		URI II	22.77	21.88
26		Chamara III	18.95	21.26
27		Parbati-III	13.17	13.50
28		K. Ganga	25.45	14.34
29	APCPL	Jhajjar (Aravali)	52.86	11.78
30	NPCIL	NAPP	68.68	82.31
31		RAPP (#3 and #4)	20.19	15.27
32		RAPP (#5 and #6)	105.75	78.88
33	SVNPL	NATHPA JHAKRI	94.76	109.40
34		Rampur	15.66	18.21
35	BBMB	BBMB 3.5%	527.81	585.18
36		BBMB 1 LU	74.78	85.97
37		BBMB 10 LU	19.72	23.22
38		DEHAR	-	-
39		PONG	-	-
40	THDC	Koteshwar	14.48	15.27
41		Tehri	160.31	168.67
42	MUNPL	Meja	-	7.70
43		Total	1,753.27	1,885.74

Power Purchase from Renewable Sources/RECs

- 4.18 Apart from the above allocations from conventional sources, EWEDC shall also procure power from roof-top solar power plants as covered under the power procurement from renewable energy segment and balance power shall be required to be procured from bilateral agreements. Further, EWEDC has signed a PPA with SECI on 30th August, 2019 for energy purchase from 40 MW Wind Power on long-term basis. Probably, EWEDC shall procure power from SECI from June, 2021 onwards @ Rs. 2.90/- per unit including trading margin of Rs. 0.07/-per unit. It will help to EWEDC to comply the non-solar RPO.
- 4.19 As per the JERC (Procurement of Renewable Energy) Regulations, 2010 read with Third Amendment Regulations, 2016, the Hon'ble Commission has specified Renewable Purchase Obligation (RPO) targets for all Distribution Licensees/ obligated entities for FY 2010-11 to FY 2021-22. As per the amendment issued, the petitioner has to purchase 17.00% of total energy purchase from renewable sources for the FY 2020-21 including 8.00% for Solar and 9.00% for Non-Solar.
- 4.20 The RPO targets to be achieved by the EWEDC during the MYT control period of FY 2019-20 to FY 2021-22 as specified in the Regulations is as follows:

Table 51: RPO Target for the Control Period

FY	Solar RPO (%)	Non-Solar RPO (%)	Total RPO (%)
2019-20	4.70	6.80	11.50
2020-21	6.10	8.00	14.10
2021-22	8.00	9.00	17.00

- 4.21 EWEDC intends to meet the RPO as per the directions of the Hon'ble Commission for the FY 2021-22. EWEDC has planned to meet the Solar RPO from the purchase of solar power within the UT of Chandigarh (both Net metering mode and Gross metering mode).
- 4.22 The summary of projected Solar and Non-Solar compliance by EWEDC for the FY 2021-22 is summarized in the table below:

Table 52: Effective Energy Sales (Excluding Hydro) for FY 2021-22

S. No.	Particular	Formula	FY 2021-22
1	Energy Sales within UT (In MUs)	a	1,658.27
2	Hydro Power Purchase (In MUs)	b	1,361.39
3	Inter-State Loss	c	4.03%
4	Inter-State Loss (In MUs)	$d=b*c$	54.86
5	Intra-State Loss	e	11.80%
6	Intra-State Loss (In MUs)	$f=e*(b-d)$	154.17
7	Hydro Power Consumed (In MUs)	$g=b-d-f$	1,152.36
8	Conventional Power Consumed (In MUs)	$h=a-g$	505.91

Table 53: RPO Requirement (Solar and Non-Solar) for FY 2021-22

Particulars	RPO %	Target		Generation 2021-22	RPO to be Procured 2021-22 (In MUs)
		Conventional Power Consumed (in MUs)	Units (in MUs)	Units (in MUs)	
Solar	8.00%	505.91	40.47	32.58	7.89
Non-Solar	9.00%	505.91	45.53	83.33	(37.80)
Total	14.10%		86.01	115.92	(29.91)

Table 54: Sources of Solar Power Procurement against Solar RPO for FY 2021-22

Particulars	FY 2021-22 (in MUs)
Power generated/procured	3.50
Power procured from CREST	29.08
Solar REC purchase	-
Total Solar RPO Met	32.58

Table 55: Sources of Non-Solar Power Procurement against Non-Solar RPO for FY 2021-22

Particulars	FY 2021-22 (in MUs)
Non- Solar REC purchase	-
Non- Solar power procured from SECI	83.33
Total Non-Solar RPO Met	83.33

- 4.23 EWEDC submits that Chandigarh does not have required potential for non-solar generation due to geographical conditions. Further, solar is cleaner energy and as per the solar mission of the Government of India, thrust has been given on increasing the solar sources of power.
- 4.24 The Hon'ble Commission may kindly allow EWEDC to meet the RPO as projected above.
- 4.25 The summary of projected power purchase units by EWEDC for the FY 2021-22 is summarized in the table below:

Table 56: Summary of Power Purchase for FY 2021-22 (MUs)

Particular	Approved in T.O. dated 20th May, 2019	Projected
Long Term Power Purchase	1,753.27	1,885.74
Power Procurement Gross/Net Metering including CREST	8.80	8.58
SECI	-	83.33
Short Term Power	207.61	264.90
Total Power Purchase	1,969.66	2,242.55

Power Purchase Cost

- 4.26 It is submitted that CERC has issued new Tariff Orders for number of generating stations based on which the fixed and energy charges from these stations have undergone a change. Therefore, it is important to consider the revised Tariff Orders of these generating stations for projection of power purchase cost.
- 4.27 Also, the actual power purchase cost from other generating sources is available for FY 2019-20 and six months for FY 2020-21. The assumptions considered for projection of power purchase cost from various generating station are detailed below:

- a. The Fixed Cost for each plant is computed based upon the % allocation of the plant capacity to EWEDC and corresponding annual fixed charges approved for the generating stations by CERC.
- b. The Energy Charges for thermal plants for FY 2021-22 have been projected by escalating the actual per unit variable charges of the respective units for the FY 2020-21 @ 5.72% year over year.
- c. In case of hydro plants, the variable charge has been computed based on the approved annual charges and design energy of the plant.
- d. Energy Charges for BBMB has been considered as per the last twelve month rate for 1 LU and 10 LU apart from the annual fixed charges and operation and maintenance charges towards the allocation of 3.50%.
- e. PGCIL Charges, NRLDC Charges, Reactive Energy charges are computed at an escalation of 5.72% y-o-y over actuals billed per unit in FY 2020-21.
- f. Shortfall in power after accounting for energy availability from all stations and towards RPO obligation has been projected to be met from short term sources. The rate of short-term power has been projected by escalating the average per unit cost for the FY 2020-21 by 5.72% year over year.

4.28 The projected power purchase cost is as illustrated in the table below:

Table 57: Projected Power Purchase Cost for FY 2021-22 (in Rs. Crores)

S. No.	Source	Name of Project	Approved in T.O. dated 20th May, 2019	Projected
1	NTPC	Singrauli	1.95	7.08
2		Rihand I	17.46	16.41
3		Rihand II	13.45	14.59
4		Rihand III	13.33	14.32
5		Unchahar I	5.81	7.26
6		Unchahar II	10.65	7.11
7		Unchahar III	3.42	8.66
8		Unchahar IV	0.32	11.43
9		Anta	5.65	8.60
10		Auriya	7.35	14.58
11		Dadri	15.20	15.73
12		Kahalgaoon II	7.08	4.36
13		Dadri II	5.45	5.23
14		Koldam Hydro	27.76	24.98
15		Singrauli Hydro	-	3.23
16		Tanda II	-	6.27
17	NHPC	Salal	1.41	2.47
18		Tanakpur	2.31	2.26
19		Chamera I	21.83	23.43
20		Chamera II	8.06	5.23
21		Uri	3.72	4.34
22		Dhauliganga	6.78	8.83
23		Dulhasti	19.39	29.06
24		Sewa II	4.92	15.98
25		URI II	14.37	4.55
26		Chamara III	9.73	9.31
27		Parbati-III	7.58	9.22
28	K. Ganga	10.88	7.57	
29	APCPL	Jhajjar (Aravali)	31.13	18.20
30	NPCIL	NAPP	24.51	28.05
31		RAPP (#3 and #4)	8.14	6.18
32	RAPP (#5 and #6)	49.84	33.53	
33	SJVNL	NATHPA JHAKRI	25.93	26.86
34		Rampur	5.76	8.94
35	BBMB	BBMB 3.5%	168.67	-
36		BBMB 1 LU	23.90	14.38
37		BBMB 10 LU	6.30	144.32
38		BBMB O&M Charges	0.00	17.08
39		ULDC etc.	0.00	0.09
40	THDC	Koteshwar	8.96	7.99
41		Tehri	92.42	88.96
42	MUNPL	Meja	-	8.86
43		PTC REC	7.24	-
44		UI/Deviation/Exchange	99.52	84.33
45		SECI	-	24.17
46		Crest	7.38	5.85
47		Pvt.solar	0.92	1.26
48		Total	806.52	811.07

- 4.29 The other charges comprising of inter-state transmission charges, scheduling charges etc. are projected considering an increase of 5.72% y-o-y over the estimated cost for FY 2020-21. The projected charges for each head are as summarized in the table below:

Table 58: Transmissions and Other Charges projected for FY 2021-22 (in Rs. Crores)

Particular	Approved in T.O. dated 20th May, 2019	Projected
PGCIL Charges	60.45	79.22
NRLDC Charges	-	0.16
Reactive Energy Charges	-	0.09
Open Access charges	-	-
Total	60.45	79.47

- 4.30 Total cost projected for the FY 2021-22 is as provided in table below. The Hon'ble Commission is requested to approve the same.

Table 59: Projected Power Purchase Cost for FY 2021-22 (in Rs. Crores)

Particular	Approved in T.O. dated 20th May, 2019	Projected
Total Power Purchase Cost	866.97	890.53

T&D Losses and Energy Requirement

- 4.31 The Hon'ble Commission in the Business Plan Order dated 12th November, 2018, has approved the T&D loss of 9.20% FY 2021-22. While EWEDC is dedicated for reducing the intra-state T&D losses in the UT of Chandigarh, there are constraints in reducing the T&D loss further. It is submitted that losses remained stagnant without much improvement due to majority of the increase in the sales in the LT category.
- 4.32 In addition to the issue of higher LT sales, another important factor is the absence of interconnection point within the UT boundary which has been also submitted to the Hon'ble Commission in its past submissions.
- 4.33 The energy input in EWEDC is currently being metered at 400kV Nalagarh, 220kV Mohali and 220kV Dhoolkot (BBMB) which has resulted in higher T&D losses for EWEDC. The EWEDC has to bear around 3% additional losses of interstate circuit due

to not having any interstate point in its boundary. In this regard it is submitted that construction of a 220/66 kV substation at Hallo Majra is under progress by M/s PGCIL. This substation shall cater to the future load growth of Chandigarh resulting in lower losses due to commissioning of an interconnection point within the UT periphery.

- 4.34 In view of the above, it is submitted that the Hon'ble Commission may kindly consider & revise the loss target to a level which is achievable under the circumstances detailed above.
- 4.35 In view of the above submissions, it is requested that the Hon'ble Commission may kindly consider & approve the T&D losses target for the FY 2021-22 at 11.80%.
- 4.36 For computation of energy requirement, EWEDC has estimated inter-state transmission losses based on the actual inter-state transmission losses for the FY 2019-20 of 4.03%.
- 4.37 The projected energy balance for the FY 2021-22 is as given in the table below, the Hon'ble Commission is requested to approve the same.

Table 60: Energy Balance for the FY 2021-22

Particular	Approved in T.O. dated 20th May, 2019	Projected
Energy Procured		2,233.98
Less: Outside Sale - Trading		265.26
Energy Available		1,968.72
Inter-State Transmission Loss		4.03%
Transmission Loss (MUs)		79.34
Net Energy Available at UT Periphery		1,889.38
Power procured from Gross & NET Metering Mode (MUs)		8.58
Total Energy Available	1,969.66	1,897.95
Actual Energy Sales (MUs)	1,788.45	1,658.27
T&D Loss (%)	9.20%	11.80%
T&D Loss (in MUs)	181.21	239.69
Total Energy Required at UT Periphery (MUs)	1,969.66	1,897.95
Demand Supply (Gap) / Surplus	0.00	0.00

Operations and Maintenance Expenses

4.38 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense. Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses. Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits. Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the CED and form an integral part of the CED's efforts towards reliable and quality power supply as well as in the reduction of losses in the system. As per the MYT Regulations, 2018, O&M expenses shall be treated as controllable parameter and shall not be revised except those attributable to directions of the Commission.

Employee Expenses

4.39 Accordingly, EWEDC has considered employee expenses for FY 2021-22 as approved by the Hon'ble Commission in the MYT Order dated 20th May, 2019.

A&G Expenses

4.40 The MYT Regulation provides that the A&G Expenses shall be computed as per the formula specified in Regulation 60.4. The regulation provides the following formula for projection of Employee Expenses.

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

Where:

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

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

4.41 The EWEDC has considered the above formula for projection of A&G expenses for the FY 2021-22. The A&G cost for the FY 2020-21 has been calculated on the basis of actual for the FY 2019-20 & taken as base. The average increase in Consumer Price Index (CPI) has been calculated based on the increase in the Consumer Price Index (CPI) for the FY 2017-18, FY 2018-19 & FY 2019-20 at 5.74%.

4.42 The A&G Expenses for the FY 2021-22 has been projected based on the above parameters. The projected A&G cost for the FY 2021-22 is provided in the table below:

Table 61: Projected A&G Expenses for FY 2021-22 (in Rs. Crores)

Particular	Unit	FY 2021-22
A&G Expenses of FY 2019-20	Rs. Cr.	5.42
A&G Expenses of FY 2020-21 (Base Year)	Rs. Cr.	5.73
CPI Inflation	In %	5.74%
Projected A&G expenses	Rs. Cr.	6.06

R&M Expenses

4.43 It is submitted that the Repair & Maintenance Expenses for the FY 2021-22 has been revised based on the actual Repair & Maintenance Expenses revised estimate for the FY 2020-21 at Rs. 10.81 Crores. The average increase in Wholesale Price Index (WPI) has been calculated based on the increase in the WPI for the FY 2017-18, FY 2018-19 & FY 2019-20 at 2.96%. EWEDC has been projected the Repair & Maintenance Expenses for the FY 2021-22 @ 2.96% escalation on revised estimate for the FY 2020-21 i.e. Rs. 10.81 Crores.

4.44 Accordingly, the R&M Expenses for the FY 2021-22 has been projected based on the above parameters. The projected R&M expenses for the FY 2021-22 is provided in the table below:

Table 62: Projected R&M Expenses for FY 2021-22 (in Rs. Crores)

Particular	Unit	FY 2021-22
Estimated R& M Expenses for FY 2020-21	Rs. Cr.	10.81
WPI Inflation	%	2.96%
Projected R&M Expenses	Rs. Cr.	11.13

4.45 The following table presents the projected Employee expenses, R&M expenses and A&G expenses to be incurred by EWEDC for the FY 2021-22.

Table 63: Projected O&M Expenses for the FY 2021-22 (in Rs. Crores)

Particular	Approved in T.O. dated 20th May, 2019	Projected
Employee Expenses	80.32	80.32
R&M Expenses	12.19	11.13
A&G Expenses	5.21	6.06
Total O&M Expenses	97.72	97.51

4.46 The Hon'ble Commission is requested to approve the total O&M expenses as computed in the above table for the FY 2021-22.

GFA and Depreciation

4.47 EWEDC has considered the estimated closing GFA of Rs. 462.77 Crores for the FY 2020-21 to arrive at the opening GFA for the FY 2021-22.

4.48 The projected GFA for the FY 2020-21 is provided in the table below:

4.49 EWEDC requests the Hon'ble Commission to approve the Gross fixed assets in the table below:

Table 64: Projected Assets Addition for the FY 2021-22 (in Rs. Crores)

Particular	Approved in T.O. dated 20th May, 2019	Projected
Opening GFA	589.92	462.77
Asset Capitalized	57.38	5.02
Closing GFA	647.3	467.79

4.50 Depreciation has been calculated based on opening GFA & proposed additions during the financial year at the rate prescribed in the MYT Regulations. The projected depreciation for the FY 2021-22 is provided in the table below:

Table 65: Projected Depreciation for the FY 2021-22 (in Rs. Crores)

Particular	Approved in T.O. dated 20th May, 2019	Projected
Average Assets	504.41	465.28
Rate of Depreciation	3.44%	3.45%
Depreciation for the year	17.37	16.06

Interest on Loan

- 4.51 In line with the methodology adopted by EWEDC for consideration of GFA as detailed above, the opening normative loan has also been considered on the same lines. EWEDC has considered the estimated closing normative loan of the FY 2020-21 as opening normative loan for the FY 2021-22.
- 4.52 Repayment of the normative loan has been considered equivalent to the depreciation for the respective years in line with the MYT Regulations, 2018.
- 4.53 The interest at the SBI MCLR rate as on 1st April, 2020 plus 100 basis points i.e. 8.75% has been applied on the average normative debt in order to project the interest on normative loans for FY 2021-22. The Hon'ble Commission is requested to approve the interest on normative loans as computed in the table below:

Table 66: Projected Interest on Loan for the FY 2021-22 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Projected
Opening Normative Loan	75.24	14.18
Add: Normative Loan during the year	40.17	3.51
Less: Normative Repayment	17.37	16.06
Closing Normative Loan	98.04	1.63
Average Normative Loan	86.64	7.91
Rate of Interest	9.55%	8.75%
Interest on Normative Loan including bank charges	8.27	0.69

Interest on Working Capital

4.54 As per clause 31 & 52 of JERC MYT Regulations, 2018 the working capital of a licensee shall consist of

- a. Receivable of two months of billing
- b. O&M Expenses of one month
- c. 40% of Repair & maintenance expenses for one month
- d. Less consumer security deposit but excluding Bank Guarantee

4.55 The SBI 1 Year MCLR as on 1st April, 2020 plus 200 basis point i.e. 9.75% is considered for computation of interest on working capital. The EWEDC requests the Commission to approve the revised working capital requirement and interest computed as per the regulations. The same is summarized in the table below:

Table 67: Projected Interest on working Capital for the FY 2021-22 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Projected
Two months receivables	167.83	158.34
Add: One month O&M Expenses	8.14	8.13
Add: 40% of repair & maintenance expenses for one month	0.41	0.37
Less: Consumer Security Deposit excl. BG	218.96	207.72
Total Working Capital after deduction of Consumer Security Deposit	0.00	0.00
Interest Rate (%)	10.15%	9.75%
Interest on Working Capital	0.00	0.00

Interest on Consumer Security Deposit

4.56 Estimated closing consumer security deposit for the FY 2020-21 has been considered based on the actual opening for FY 2021-22 and an addition of Rs. 8.00 Crores has been projected during FY 2021-22. The interest rate as approved by the Hon'ble Commission in the Tariff order Dt. 20th May, 2019 has been considered for calculation of interest on security deposit for the FY 2021-22. Accordingly, the opening, closing balance and estimated addition during the FY 2021-22 and claim of interest on security deposit is given in the table below, EWEDC requests the Hon'ble Commission to approve the same.

Table 68: Projected Interest on Consumer Security Deposit for the FY 2021-22 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Projected
Opening Consumer Security Deposit	214.96	203.72
Net Addition During the year	8.00	8.00
Closing Consumer Security Deposit	222.96	211.72
Average Deposit	218.96	207.72
Bank Rate	6.25%	6.25%
Interest on Consumer Security Deposit	13.69	12.98

Return on Equity

- 4.57 Regulation 27.2 & 27.3 of MYT Regulations, 2018 provides for Return on Equity (RoE) as follows:

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

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

- 4.58 In line with the methodology approved in the Order dated 20th May, 2019, adopted by EWEDC for calculation of normative loan as detailed above, the opening equity has also been considered on the same lines. EWEDC has considered the estimated closing balance of FY 2020-21 to arrive at the opening normative equity of for the FY 2021-22. Thereafter, 30% of projected additions during FY 2021-22 has been considered for arriving at the closing equity for the respective years. Rate of return on equity has been considered as per order dated 20th May, 2019 & proviso 27.3 of the MYT regulations 2018. The proposed RoE for the FY 2021-22 is as below:

Table 69: Projected Return on Equity for the FY 2021-22 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Projected
Opening Equity	171.02	138.83
Additions on account of new capitalisation	17.21	1.51
Closing Equity	188.23	140.34
Average Equity	179.63	139.58
Average Equity (Wires Business)	161.67	125.63
Average Equity (Retail Supply Business)	17.96	13.96
Return on Equity for Wires Business (%)	15.50%	15.50%
Return on Equity for Retail Supply Business (%)	16.00%	16.00%
Return on Equity for Wires Business	25.06	19.47
Return on Equity for Retail Supply Business	2.87	2.23
Return on Equity	27.93	21.71

Provision for Bad and Doubtful Debt

- 4.59 In accordance with JERC MYT Regulations, 2018, the generating company/licensee gets the receivables audited, allow actual provision for bad debts up to 1% of receivables in the revenue requirement of the licensee.
- 4.60 In view of the above para & outstanding dues of Rs. 19.12 Crores from permanently disconnected consumers as on 31st March, 2020. EWEDC has proposed the provision for bad and doubtful debts @ 1% of the estimated receivables of Rs. 950.02 Crores for the FY 2021-22. Accordingly, EWEDC has estimated the provision of bad debt of Rs. 9.50 Crores for the FY 2021-22.

Non-Tariff Income

- 4.61 The projected Non-tariff Income for the FY 2021-22 as shown in the below table:

Table 70: Projected Non-Tariff Income for the FY 2021-22 (in Rs. Crores)

Particulars	Approved in T.O. dated 20th May, 2019	Projected
Non-Tariff Income	24.97	18.66

Aggregate Revenue Requirement for the FY 2021-22

4.62 Based on the above discussion, the projection for Aggregate Revenue Requirement for the FY 2021-22 is as given in the table below:

Table 71: Projected Aggregate Revenue Requirement for the FY 2021-22 (in Rs. Crores)

S. No.	Particular	Approved in T.O. dated 20th May, 2019	Projected
1	Cost of power purchase for full year	866.97	890.53
2	Employee costs	80.32	80.32
3	Administration and general expenses	5.21	6.06
4	R&M expenses	12.19	11.13
5	Depreciation	17.37	16.06
6	Interest and finance charges	8.27	0.69
7	Interest on working capital	-	-
8	Interest on Security Deposit	13.69	12.98
9	Return on NFA /Equity	27.93	21.71
10	Provision for Bad Debt	-	9.50
11	Total Revenue Requirement	1,031.94	1,048.99
12	Less: Non-Tariff Income	24.97	18.66
13	Less: Revenue from Sale through UI	-	64.99
14	Net Revenue Requirement	1,006.97	965.34

Revenue based on Existing Tariff

4.63 Based on the projection of sale and the existing tariff approved by the Hon'ble Commission as per the Tariff Order dated 19th May, 2020, the projected revenue for the FY 2021-22 is summarized in the table below:

Table 72: Projections for Revenue on Existing Tariff for FY 2021-22 (in Rs. Crores)

S. No.	Category of Consumers	Projected
A	Domestic - LT	388.41
B	Domestic - HT	15.41
C	Commercial - LT	151.37
D	Commercial - HT	173.42
E	Large Supply	78.59
F	Medium Supply	70.36
G	Small Power	9.69
H	Agriculture	0.41
I	Public Lighting	8.46
J	Bulk Supply	50.73
K	Others Temporary Supply	3.18
	Total	950.02

Revenue Surplus/(Gap) for FY 2021-22

4.64 Based on the projected ARR and revenue for FY 2021-22, the expected revenue gap is summarized in table below:

Table 73: Proposed Revenue Gap on Existing Tariff for FY 2021-22 (in Rs. Crores)

S. No.	Particulars	FY 2021-22
1	Net Revenue Requirement	965.34
2	Revenue from retail sales at Existing Tariff	950.02
3	Revenue Surplus/(Gap) for the Year	(15.32)

4.65 **The above revenue gap of Rs. 15.32 Crores is for the FY 2021-22 only and does not include any revenue surplus/gap for true-up of FY 2019-20 and APR for FY 2020-21. The proposed treatment for coverage of the consolidated revenue gap along with carrying cost is detailed in the subsequent Chapter.**

Chapter 5: Treatment of Surplus/Gap and proposal for revised Tariff

- 5.1 The Hon'ble Commission in its Tariff Order dated 19th May, 2020 approved the Closing surplus of Rs. 83.87 Crores at the end of the FY 2018-19 including carrying/holding cost of Rs. 9.60 Crores.
- 5.2 Based on the truing-up of FY 2019-20, APR of FY 2020-21 and projected ARR of FY 2021-22, the revenue gap/surplus for each year is computed as below:

Table 74: Proposed Revenue Gap/Surplus for FY 2019-20 to FY 2021-22 (in Rs. Crores)

S. No.	Particular	FY 2019-20	FY 2020-21	FY 2021-22
		Actual	Estimated	Projected
1	Net Revenue Requirement	817.27	910.95	965.34
2	Revenue on existing tariff	841.96	930.57	950.02
3	FPPCA Charged	-0.32	1.15	-
4	Regulatory Surcharge	9.91	0.01	-
5	Surplus/(Gap) for the year	34.27	20.78	(15.32)

- 5.3 As per the regulation 11.5 of MYT Regulation, 2018, the SBI 1 Year MCLR as on 1st April, 2020 plus 100 basis points i.e. 8.75% has been considered for computation of carrying/holding cost. EWEDC has followed the same method to calculate the carrying/holding cost on average surplus/gap during the financial year.
- 5.4 In accordance with regulations and considering the yearly revenue *surplus/gap* presented in the preceding table for the period FY 2019-20 to FY 2021-22 and the carried forward Gap, the table below presents the consolidated revenue gap along with carrying cost for the period.

Table 75: Proposed Revenue Surplus inclusive of Carrying Cost (in Rs. Crores)

Particular	FY 2019-20	FY 2020-21	FY 2021-22
Opening Surplus/(Gap)	83.87	126.98	159.78
Add: Surplus/(Gap) during the year	34.27	20.78	(15.32)
Add: Amortization of Regulatory Asset	0.00	0.00	0.00
Closing Surplus/(Gap)	118.14	147.76	144.46
Average Surplus/(Gap)	101.01	137.37	152.12
Interest Rate	8.75%	8.75%	8.75%
Carrying/Holding Cost	8.84	12.02	13.31
Closing Surplus/(Gap) after adjusting Carrying Cost	126.98	159.78	157.77

5.5 In view of the above submission, EWEDC humbly requests the Hon'ble Commission to approve **the total surplus for the period FY 2019-20 to FY 2021-22 amounting to Rs. 157.77 Crores.**

5.6 It is submitted that there is a surplus at existing tariff for the FY 2021-22, accordingly, EWEDC has not proposed any revision in retail tariff for various categories for the FY 2021-22.

5.7 The table below presents the existing and proposed tariff for various categories.

Table 76: Existing and Proposed Tariff

Tariff Category	EXISTING TARIFF		PROPOSED TARIFF	
	Variable Cost (Rs./kWh)	Fixed Cost (Rs./kW/ Month)	Variable Cost (Rs./kWh)	Fixed Cost (Rs./kW/ Month)
Domestic - LT				
0-150 kWh	2.75	10	2.75	10
151-400 kWh	4.80	10	4.80	10
Above 400 kWh	5.20	10	5.20	10
Domestic - HT	4.80	10	4.80	10
Commercial - LT				
0-150 kWh	5.00	20 for single phase & 100 for three phase	5.00	20 for single phase & 100 for three phase
151-400 kWh	5.30		5.30	
Above 400 kWh	5.60		5.60	
Commercial - HT	5.30	100	5.30	100
Industrial				
Large Supply	5.00	200	5.00	200
Medium Supply	4.70	200	4.70	200
Small Power	4.80	30	4.80	30
Agriculture	2.90	-	2.90	-
Public Lighting - Public Lighting system managed by Municipal Corporation, Panchayat and Street Lights maintained/outsourced to an external Agency	5.35	100	5.35	100
Public Lighting - Advertisement/ Neon sign boards & bill boards (apart from advertisement boards installed on commercial establishments and charged under commercial tariff)	7.10	100	7.10	100
Bulk Supply	4.90	200	4.90	200
Others Temporary Supply	Tariff shall be Fixed/Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both. For multi activity pursuit, applicable Tariff for temporary connection shall be with reference to that of commercial category for permanent supply.		Tariff shall be Fixed/Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both. For multi activity pursuit, applicable Tariff for temporary connection shall be with reference to that of commercial category for	
Electric Vehicle Charging Station	4.00	100	4.00	100

5.8 The Revenue from tariff at the projected energy sales for the FY 2021-22 is provided in the table below.

Table 77: Revenue from Proposed Tariff (in Rs. Crores)

S. No.	Category of Consumers	Projected
A	Domestic - LT	388.41
B	Domestic - HT	15.41
C	Commercial - LT	151.37
D	Commercial - HT	173.42
E	Large Supply	78.59
F	Medium Supply	70.36
G	Small Power	9.69
H	Agriculture	0.41
I	Public Lighting	8.46
J	Bulk Supply	50.73
K	Others Temporary Supply	3.18
	Total	950.02

- 5.9 The cumulative Revenue Surplus based on the proposed tariff is detailed in the table below.

Table 78: Revised Revenue Gap based on Proposed Tariff up to FY 2021-22 (in Rs. Crores)

Particular	FY 2021-22
ARR for FY 2021-22	965.34
Revenue at Existing Tariff	950.02
Surplus/ (Gap) for the year	(15.32)
Add: Surplus/ (Gap) carried forward	159.78
Add: Amortization of Regulatory Asset	-
Total Surplus/ (Gap)	144.46
Additional Revenue from Proposed Tariff	-
Carrying/Holding Cost	13.31
Surplus/(Gap) to Carry Forward	157.77

- 5.10 In view of the above submissions, the tariff structure proposed by EWEDC for the FY 2021-22 will help it meet the ARR for the FY 2021-22 & previous gap.

- 5.11 **In light of the above submission the EWEDC requests the Hon'ble Commission to approve the tariff proposals.**

Chapter 6: Proposed Tariff Schedule

6.1 This chapter elucidates the proposed fixed and energy charges for FY 2021-22 along with the applicability.

1. Domestic Supply (DS) - LT

APPLICABILITY

This schedule shall apply for light, fan, domestic pumping sets and household appliances in the following premises:

a) Single private houses/flats.

b) Government and Government aided education institutions, viz schools, colleges, universities, hostels, canteens, and residential quarters/ hostels attached to the educational institutions.

c) Supply to hostels and /or residential quarter attached with the private educational institutions where separately metered.

d) Paying Guest (PG) authorized by the Chandigarh Administration.

e) Administrative Training Institutes/Correctional Institutes/Training Centres exclusively run/managed by the UT/State/Central Government to undertake research, consultancy/Training and allied activities to improve management efficiency.

f) Government and Government aided Sports institutions/Gymnasium halls etc. banks and PCO exclusively for the use of educational institutions which are covered under SI No. (b) above.

g) Religious Institutions viz. Temples, Gurudwaras, Mosques, Churches, provided that the Sub Divisional officer concerned authenticates the genuineness of the place being exclusively used for worship by the general public.

h) Housing colonies and multi storied flats/buildings as defined in the Electricity Supply Code Regulations notified by the JERC.

i) **Government and Government aided** Dispensaries / Hospitals / Public Libraries / Schools / Colleges / Working Women's Hostels .

j) Recognized Centers/ societies for the welfare of blind, deaf and dumb, spastic children, physically handicapped persons, mentally retarded persons, as approved by the Chandigarh Administration.

k) Orphanages/ Cheshire Homes/ Old age homes/ charitable homes and Gaushalas.

l) Charitable Organizations viz. Schools, Hospitals, Dispensaries, Education and Research Institutes and Hostels attached to such Institutions registered with the Income Tax authorities under Section 80G, or 80 GGA, or 35 AC. The individual organization shall apply in writing to the Electricity Department along with a certificate from the IT Department or getting considered for the tariff in the Domestic Category

m) Shelter Homes (including Night Shelters) approved by Chandigarh Administration.

n) Crematoriums (including electric) and Burial Grounds. The Halls or Gardens/ Lawns or any portion of the premises listed in Para (i) above **and /or** used for Commercial activities at any time shall be charged at Commercial Rate of Electricity Tariff.

NOTES:

i. Where a portion of the dwelling is used for mixed load purposes the connection shall be billed for the purpose for which the tariff is higher.

ii. Hostels shall be considered as one unit and billed under domestic supply tariff without compounding.

iii. Private education **institutions shall be** billed under Non Domestic Tariff.

iv. STD/PCOs, shops attached to Religious Institutions will be billed under Non- Domestic Tariff.

v. A room or a part of a residential house utilized by a teacher for imparting tuition work, self-occupied handicapped persons operating from their residences, cooking classes taken by house ladies, beauty parlour run by house ladies, ladies doing tailoring work etc. shall be covered under domestic tariff.

vi. For cottage & commercial activities operating in residences such as repair of shoes by cobbler, dhobi, ironing of clothes, stitching/ knitting, paan-shop and bakery products etc. small shops, tea shops etc. with total load (maximum demand) of 5 kW domestic tariff shall be applicable subject to installation of MDI Meters. In cases where total load is more than 5 kW, separate metering shall be done for commercial and domestic use and consumption shall be charged according to the tariff applicable.

vii. Professionals such as Doctors, Engineers, Lawyers, CAs, Journalists and Consultants practicing from their residence irrespective of location provided that such use shall not exceed 25% of the area of the premises or as specified in the rules/regulations of their respective State or Union Territory.

viii. The load of common amenities for consumers of housing societies may include pumps for pumping water supply, lifts and lighting of common area. The consumption of energy for common services shall be separately metered with meters installed and sealed by the licensee and shall be billed at Domestic Tariff. The user shall inform the details of every non-domestic activity within the residential complex, such as commercial complex, industrial activity, and recreation club, along with the connected load, and shall seek a separate connection for the same under the commercial category.

CHARACTER OF SERVICE

AC, 50 cycles, Single phase 230 volts or three phase 400 volts.

For loads up to 5 KW supply shall be connected on single phase 230 volts and above 5 KW up to 100 kW supply shall be given on three phase 400 volts.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed (All Load)	Existing	Proposed
0-150 kWh	10	10	2.75	2.75
151-400 kWh			4.80	4.80
Above 400 KWh			5.20	5.20

2. Domestic Supply (DS) - HT

APPLICABILITY

This schedule shall apply to all the consumers falling under the LT Domestic category above but connected at 11 kV or above voltage level.

CHARACTER OF SERVICE

AC, 50 cycles, Three phase 11 Kilo volts.

For loads above 100 KW, supply shall be connected on 11 KV and a separate transformer of adequate capacity shall be installed at consumers cost as per Electricity Supply Code Regulations notified by JERC. In case of consumers where the metering is being done on the

low voltage side of the transformer instead of the high voltage side, the consumption should be computed by adding 3% extra on account of transformation/ losses. This arrangement shall be continued for a maximum of one year within which metering shall be shifted to HT (11KV) side of the transformers

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed (All Load)	Existing	Proposed
0-150 kWh	10	10	4.80	4.80
151-400 kWh				
Above 400 kWh				

3. Non Residential Supply (NRS) - LT

APPLICABILITY

This schedule shall apply to all consumers, using electrical energy for light, fans appliances like pumping sets, central air conditioning plant, lift ,welding set, small lathe, electric drill, heater, battery charger, embroidery machine, printing press, ice candy, dry cleaning machines, power press, small motors in non-residential premises such as defined below:

- a) **Hostels (other than those not covered under Domestic supply category).**
- b) **Sports institutions/Gymnasium halls etc. (other than those not covered under Domestic supply category).**
- c) Pvt. Schools/colleges, coaching institutes, research institutes, **(other than those not covered under Domestic supply category).**
- d) **Coaching institutes and research institutes (Other than those run by the Chandigarh Administration)**
- e) Private Hospitals, clinics, dispensaries, nursing homes / diagnostic centers .
- f) Railways (other than traction)
- g) Hotels, restaurants, guest houses, boarding / lodging houses, marriage houses
- h) Cinemas
- i) Banks
- j) Petrol pumps
- k) Government / Public Sector offices and undertakings
- l) Public halls, auditoriums, exhibitions, theatres, circus, cinemas etc.
- m) All other establishments, i.e., shops, chemists, tailors, washing, dyeing etc. which do not come under the Factories Act.
- n) Cattle farms, fisheries, piggeries, poultry farms, floriculture, horticulture, plant nursery Farm houses being used for commercial activity.
- o) Ice-cream parlours, bars, coffee houses etc.
- p) Any other category of commercial consumers not specified/covered in any other category in this Schedule.

NRS supply shall also be applicable to multi consumer complexes including commercial complexes as defined in the Electricity Supply Code Regulations notified by the JERC. No

separate circuit/connection for power load including pumping set/central air conditioning plant, lifts etc. is permitted.

CHARACTER OF SERVICE

AC, 50 cycles, single phase at 230 Volts or 3 Phase at 400 Volts.

For loads up to 5 KW, supply shall be connected on single phase 230 volts and above 5 KW up to 100 KW, supply shall be given on 3 phase 400 volts.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
0-150 kWh	*	*	5.00	5.00
151-400 kWh	*	*	5.30	5.30
Above 400 kWh	*	*	5.60	5.60

*Proposed according to connected Load and not Consumption

Connected Load	Fixed charge	
	(Rs. per KW per Month)	
	Existing	Proposed
0-20 KW	20	20
Above 20 KW	100	100

4. Non Residential Supply (NRS) - HT

APPLICABILITY

This schedule shall apply to all the consumers falling under the Non Residential Supply category mentation Sr. No. 3 above but connected at 11 kV or above voltage level.

CHARACTER OF SERVICE

AC, 50 cycles, Three phase 11 Kilo volts.

For loads above 100 KW, supply shall be given on 11 KV in case of multi consumer complex including commercial complex and in other cases for load above 100 KW the supply shall be on 11 KV. In case of consumers where metering is done on the low voltage side of the transformer instead of the high voltage side, the consumption should be computed by adding 3% extra on account of transformation losses.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
0-150 kWh	100	100	5.30	6.30
151-400 kWh				
Above 400 kWh				

5. Large Industrial Power Supply (LS)**APPLICABILITY**

The schedule shall apply for consumers having industrial connected load above 100 KW. Their contract demand shall not be less than 100 KVA. No consumers shall increase their connected load without prior approval of the Electricity department. The consumer availing supply at high tension shall indicate rated capacity of all the step down transformers installed in his premises and shall not increase the capacity of such step down transformers without prior approval of the department.

NOTE

- i. The above tariff covers supply at 11 kV. Surcharge at 20% on the tariff shall be leviable for all the existing consumers which are being given supply at 400 volts. A consumer getting supply at 33 kV and above will get a rebate of 3%.
- ii. Surcharge @ 17.5% on the tariff shall be leviable for all the arc furnace consumers which are being given supply at 11 kV. This surcharge at 17.5% shall also be leviable on other industrial consumers having contract demand exceeding 5000 kVA and running at 11kV.
- iii. In case of steel rolling mills having supply at 400 volts, an additional surcharge of 5% shall be leviable.
- iv. In case of HT consumers (11kV and above) where maximum demand and energy consumption is recorded on the lower voltage side of the consumer transformer instead of the high voltage side, maximum demand and energy consumption for billing purpose should be computed by adding 3% extra on units on account of transformation/cables losses. However this agreement shall in no case continue for more than three months and the meter shall be installed on the HT side of the transformer within the said period including such existing connection.
- v. For new connections, all metering will be on HT side only.

CHARACTER OF SERVICE

AC, 50 Cycles, 3 phase 11 kV supply for loads above 100 KW Supply can be given at 33/66/220kV depending on quantum/type of load and contract demand and availability of bus voltage and transformer winding capacity at the feeding substation wherever possible at the discretion of supplier. For arc furnace loads and other loads of equally violent fluctuating nature, voltage of supply will be 33kV and above depending upon availability of bus voltage and transformer winding capacity at the feeding substation wherever possible, at the discretion of supplier.

Contract demand is the load kW, kVA or HP, as the case may be agreed to be supplied by the licenses and contracted by the consumer and specified in the agreement. If the consumer in a month exceeds the contract demand, such excess shall be charged at an additional rate of INR 250/kV.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
All Units	200	200	5.00	5.00

6. Medium Industrial Power Supply (MS)

APPLICABILITY

This tariff schedule shall apply to all industrial power supply consumers having connected load ranging from 21 KW to 100 KW.

CHARACTER OF SERVICE

AC,50 cycles ,3 phase, 400volts

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
All Units	200	200	4.70	4.70

7. Small Industrial Power Supply (SP)

APPLICABILITY

This schedule shall apply to small power industries with connected load not exceeding 20 KW (26BHP) in urban and rural areas.

CHARACTER OF SERVICE

AC, 50 cycles, single phase 230 volts, or 3 phase, 400 volts.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
All Units	30	30	4.80	4.80

8. Agricultural Pumping Supply (AP)

APPLICABILITY

This schedule shall apply to all consumers for use of electrical energy for irrigation pumping load upto 20 kW (26 BHP). Supply for loads above 26 BHP/20 KW shall be charged in accordance with the relevant industrial tariff (Govt. Tubewells meant for water supply are covered under the relevant Industrial Tariff).

NOTE

- i) Pumping sets shall be ISI marked. The responsibility for ensuring installation of ISI marked pumping sets as well as shunt capacitors shall be that of the Junior Engineer concerned, who shall verify the same at the time of verification of test reports before the release of the connection.
- ii) Supply for agriculture/Irrigation pump sets, at one point, may also be given to a registered co-operative society or to a group of farmers recognized by the competent authority.
- iii) An agriculture consumer, if he so desires, may shift the location within his premises of his connection, with the approval of the competent authority, after payment of applicable charges.

CHARACTER OF SERVICE

AC, 50 Cycles, three phase, 400 volts, Single Phase at 230 volts.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
All Units	-	-	2.90	2.90

9. Public Lighting (PL)

APPLICABILITY

This tariff schedule shall apply for use of Public Lighting system including signalling system, road and park lighting managed by municipal corporation, panchayats, institutions(at the discretion of the supplier) etc.

The tariff schedule shall also apply for use of electricity by street lights managed/outsourced to an external agency and advertisement boards, sign boards, bill boards, signages etc., (apart from the advertisement boards installed on commercial establishments & charged under commercial tariff).

CHARACTER OF SERVICE

AC, 50 cycles, Single phase at 230 Volts or three phase at 400 Volts.

TARIFF

Consumption range	Consumption Slab	Fixed charge Rs. per KW per month		Energy charge Rs./kWh	
		Existing	Proposed	Existing	Proposed
Public Lightning system - Public lighting system managed by Municipal Corporation, Panchayat and Street lights maintained/ outsourced to an external agency	All Units	100	100	5.35	5.35
Advertisement / Neon sign boards - Advertisement/ Neon-sign Boards Advertisement boards, bill boards (apart from advertisement boards installed on commercial establishments and charged under commercial tariff)	All Units	100	100	7.10	7.10

10. Bulk Supply (BS)

APPLICABILITY

This tariff schedule shall apply to general or mixed loads exceeding 10 kW to MES, Defense establishments, Railways, Central PWD, Institutions, Hospitals, Departmental Colonies and other similar establishments where further distribution is to be done by the consumer. Above schedule shall not be applicable, if 50 % or more of the total sanctioned load is motive/manufacturing load.

CHARACTER OF SERVICE

AC, 50 cycles, three phase, 400 volts or 11 KV or higher voltage at the option of the department. Loads exceeding 100 KW shall be released on HT only.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
All Units	200	200	4.90	4.90

11. Temporary Supply

APPLICABILITY

Available to any person requiring power supply for a purpose temporary in nature. The Temporary Tariff is applicable for a temporary period of supply for a period of maximum one (1) year at a time, which may be further extended, as per the provisions of Supply Code Regulations notified by JERC.

CHARACTER OF SERVICE

AC, 50 cycles, Single phase at 230 Volts or three phase at 400 Volts.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
All Units	Tariff shall be Fixed/ Demand charges (if any) plus energy charges (for relevant slab, if any) under corresponding permanent supply category plus 50% of both. For multi activity pursuit, applicable Tariff for temporary connection shall be with reference to that of commercial category for permanent supply.			

Note- No FPPCA shall be levied on Temporary Supply consumers.

12. Electric Vehicle Charging Stations

APPLICABILITY

This tariff schedule shall apply to consumers that have set up Public Charging Stations (PCS) in accordance with the technical norms/ standards/specifications laid down by the Ministry of Power, GoI and Central Electricity Authority (CEA) from time to time. The tariff for domestic consumption shall be applicable for domestic charging (LT/HT).

CHARACTER OF SERVICE

AC, 50 cycles, three phase, 11 KV or higher voltage.

TARIFF

Consumption range	Fixed charge		Energy charge	
	(Rs. per KW per Month)		(Rs./kWh)	
	Existing	Proposed	Existing	Proposed
All Units	100	100	4.00	4.00

Note: All other charges etc. shall be applicable as per the Non-Residential Supply (HT/LT) category.

6.2 General Conditions for LT & HT Supply

The above mentioned LT/HT Tariffs are subjected to the following conditions, applicable to all category of consumers.

- 1) The tariffs are exclusive of electricity duty, taxes and other charges levied by the Government or other competent authority from time to time which are payable by the consumers in addition to the charges levied as per the tariffs.
- 2) Unless otherwise agreed to, these tariffs for power supply are applicable for supply at one point only.
- 3) If energy supplied for a specific purpose under a particular tariff is used for a different purpose, not contemplated in the contract for supply and / or for which higher tariff is applicable, it will be deemed as unauthorized use of electricity and shall be dealt with for assessment under the provisions of section 126 of the Electricity Act, 2003 & Supply Code Regulation notified by JERC.
- 4) Fixed charges, as applicable, will be charged on pro-rata basis from the date of release of connection.
- 5) The billing in case of HT/EHT shall be on the maximum demand recorded during the month or 85% of the contracted demand, whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand shall be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal rate. The

definition of the maximum demand would be in accordance with the provisions of the Supply Code Regulations notified by JERC. If such over-drawl is more than 20% of the contract demand then the connection shall be disconnected immediately.

Explanation: Assuming the contract demand as 100 KVA, maximum demand at 120 KVA and total energy consumption as 12000 kWh, then the consumption corresponding to the contract demand will be 10000 kWh ($12000 \times 100 / 120$) and consumption corresponding to the excess demand will be 2000 kWh. This excess demand of 20 KVA and excess consumption of 2000 kWh will be billed at twice the respective normal rate. Such connections drawing more than 120 kVA, shall be disconnected immediately.

6) Power Factor Charges for HT and EHT

(a) Power factor means, the average monthly power factor and shall be the ratio expressed as percentage of total kWh to total kVAh supplied during the month. The ratio shall be rounded up to two figures.

(b) The consumer shall maintain the monthly average power factor of the supply not less than 90% (lagging). If the monthly average power factor of (a) consumer falls below 90% (0.9 lagging), such consumer shall pay a surcharge in addition to his normal tariff @ 1% on billed demand and energy charges for each fall of 1% in power factor upto 70%(lagging).

(c) In case the monthly average power factor of the consumer is more than 95% (95% lagging), a power factor incentive @ 1% on demand and energy charges shall be given for each increase of 1% in power factor above 95% (lagging).

(d) If the average power factor falls below 70% (lagging) consecutively for 3 months, the licensee reserves the right to disconnect the consumer's service connection without prejudice for the levy of the surcharge.

7) Delayed payment surcharge shall be applicable to all categories of consumers. Delayed payment surcharge of 2% per month or part thereof shall be levied on all arrears of bills. Such surcharge shall be rounded off to the nearest multiple of one rupee. Amounts less than 50 paise shall be ignored and amounts of 50 paise or more shall be rounded off to the next rupee. In case of permanent disconnection, delayed payment surcharge shall be charged only upto the month of permanent disconnection.

8) Advance Payment Rebate: If full advance payment of the current bill is made before the issue date of previous cycle bill, rebate @1% shall be given on the amount consisting of SOP plus fixed charges plus FPPCA. However if the advance payment is not adequate as per current bill amount consisting of SOP plus Fixed Charges plus FPPCA or payment made after the issue date of previous cycle bill , such cases shall be treated for prompt payment rebate.

9) Prompt Payment Rebate: If payment is made at least 7-days in advance of the due date of payment of the current bill a rebate for prompt payment @ 0.25 % of the bill amount (SOP +Fixed Charges +FPPCA) amount shall be given. Those consumers having arrears shall not be entitled for such rebate.

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

10) Surcharge for Low Power Factor/Non-Installation of Required rated LT Shunt Capacitors

- a. Consumers with L.T connections where the meter provided by the licensee has the power factor recording feature, shall install shunt capacitors of adequate rating to ensure power factor of 85% or above failing which low power factor surcharge at the rates noted below will be levied.

S. No.	Power Factor range	Surcharge
1	85% and above	NIL
2	Below 85% and up to 80%	2% of billed energy charges of that month for every 1% fall in P.F. from 85%
3	Below 80% and up to 75%	1.5% of billed energy charges of the month for every 1% fall in P.F. from 80%
4	Below 75%	3% of billed energy charges of that month for every 1% fall in P.F. from 75%

The conditions for disconnection of a consumer supply in case of non-achievement of minimum level of power factor as prescribed in the Supply Code Regulations notified by JERC, shall apply.

11) Unauthorised use of Electricity: The unauthorized use of electricity shall be treated as specified in the Supply Code Regulations notified by JERC.

12) Taxes & Duties

The tariff does not include any tax or duty etc. on electricity energy that may be payable at any time in accordance with any law then in force. Such charges, if any, shall be payable by the consumer in addition to the tariff charges.

6.3 Miscellaneous & General Charges

Sr. No.	Description	Proposed
A	Application processing charges for new connection/ enhancement of load/ reduction of load	
i	Domestic supply (LT)	Rs 25/-
ii	Non-Domestic Supply (LT)	Rs 100/-
iii	SP, MS and street lighting supply (LT)	Rs 250/-
iv	AP supply	Rs 25/-
v	Temporary metered supply	Two times the normal rates of category of permanent supply
vi	HT/EHT Supply	As specified in Supply Code Regulations specified by JERC
B	Charges for Re-fixing/ Changing of meter /Meter Board in the same premise on consumer request when no additional material is required. (When the cause leading to subsequent change/replacement of meter is either manufacturing defect or Department's fault then, it shall be free of cost and further, if shifting of meter is done in the interest of department work then it is free of cost.)	
i	Single Phase Meter	250/- per meter
ii	Three Phase Meter without CT	500/- per meter
iii	Three Phase Meter (with CTs & PTs)	1000/- per meter
iv	Trivector and special type meters	1200/- per meter
v	HT/ EHV metering equipment	3000/- per meter
C	Meter Inspection & Testing Charges	
	(In case correctness/accuracy of a meter belonging to the Licensee is challenged by the consumer)	
i	Single phase	150/- per meter
ii	3-phase whole current i.e. without C.T	500/- per meter
iii	L.T. meter with CTs	1500/- per meter
iv	H.T. & E.H.F metering equipment.	3000/- per meter
	NOTE: If the challenged meter is found to be incorrect, the credit of these charges will be given to the consumer, otherwise these will be forfeited.	
D	Re-sealing charges (irrespective of the number of seals involved against each item below and where seals found to have been broken by the consumer):	
i	Meter cupboard	50/-
ii	Where cut-out is independently sealed	50/-
iii	Meter cover or Meter Terminal cover (Single phase)	150/-
iv	Meter cover or Meter Terminal cover (3-phase)	375/-
v	Maximum Demand Indicator or C.T.s Chamber	900/-

Sr. No.	Description	Proposed
vi	Potential fuses	900/-
	Note: If M&T and ME seals are found to be broken/tempered cost of meter shall be recoverable and the case shall be treated as theft case.	
E	Reconnection Charges	
a	Reconnecting/connecting the premises of any consumer who was previously disconnected on account of breach of his agreement with the department or of any other provisions of the Act as may be relevant.	
i	Domestic supply	Rs 250/-
ii	Non-Domestic Supply	Rs 500/-
iii	SP, MS and street lighting supply.	Rs 500/-
iv	LS and bulk supply	Rs 1000/-
v	AP supply	Rs 250/-
vi	Temporary metered supply	Rs 1500/-
F	Testing/ Inspection of Consumer's installation	
a	Initial Test/ Inspection	Free of Cost.
b	For subsequent test of a new installation or an extension to an existing installation if the installation is found to be defective or the wiring contractor or his representative fails to be present	
i	Single Phase	Rs 150/- (Payable in advance for each subsequent visit for the purpose of testing the installation.)
ii	Three Phase	Rs 200/- (Payable in advance for each subsequent visit for the purpose of testing the installation.)
iii	MS/BS loads upto 100 kVA	Rs 500/- (Payable in advance for each subsequent visit for the purpose of testing the installation.)
iv	LS/BS (loads above 100 kVA)	Rs 1000/- (Payable in advance for each subsequent visit for the purpose of testing the installation.)
G	Meter Reading Cards/ Passbook (New/ Replacement)	
i	Provision of meter reading cards including PVC jacket	Rs 5/- per card
ii	Replacement of meter card found to be missing on consumer's premises	
	Domestic & NRS	Rs 5/- per card
	SP and AP	Rs 10/- per card

Sr. No.	Description	Proposed
	MS	Rs 25/- per card
	LS	Rs 45/- per card
iii	Replacement of Passbook in case it is lost by AP Consumer	Rs 60/-
iv	Replacement of identification card missing on the premises of AP Consumer	Rs 25/-
v	Temporary	Rs 60/- per card
H	Meter Rentals	
a	(In case where consumer opts that department to supply departmental meter)	
i	Single Phase meter	Rs 20/- per month
ii	Three Phase LT meter	Rs 50/- per month
iii	Three Phase LT meter with CT	Rs 70/- per month
iv	11 kV Metering System	Rs 500/- per month
v	33 kV Metering System	Rs 1000/- per month
vi	66 kV Metering System	Rs 2000/- per month
I	Replacement of broken glass	
a	Replacement of broken glass of meter cupboard (when the cause of the breakage is considered to be an act or fault of the consumer).	Rs 60/-
b	Replacement of meter glass where the same has been tampered with or broken by the consumer	
i	Single phase meter	Rs 250/-
ii	Three phase meter	Rs 450/-
J	Amount of Security deposit for new/ extension of load	As per the procedure prescribed in clause 5.130 to clause 5.134 of JERC Electricity Supply Code Regulation 2018.
K	Charges recoverable from the consumer when the meter is found damaged / burnt owing to negligence or default on the part of consumer	
i	Single Phase meter	Rs. 700/- each
ii	Three Phase meter	Rs. 1550/- each
iii	LT CT operated Solid State Meter. (Without CTs)	Rs. 3000/- each
iv	LT CTs	
	a) Upto 50/5A	Rs. 1580/- each
	b) Above 50/5 A	Rs. 600/- each
	c) Solid State HT TPT metering equipment (without CT/PT unit)	Rs. 20000/- each
	d) H.T.C.T./P.T. Unit	Rs. 40470/-

Sr. No.	Description	Proposed
L	Special Meter reading charges in case of change in occupancy/ vacation of premises	
i	Domestic	Rs. 50/-
ii	Other Consumer-Single phase meter	Rs. 250/-
iii	Other Consumer-Three phase meter	Rs. 450/-
M	Supply of duplicate copies of electricity bills	
i	Domestic consumers	Rs 5/-
ii	Non-Domestic consumers	Rs 10/-
iii	Temporary consumers	Rs 10/-
iv	L.T. Industrial (upto 20 kW) & AP consumer	Rs 10/-
v	L.T. Industrial (above 20 kW) & Street lighting consumer	Rs 15/-
vi	H.T. Industrial & bulk supply consumer	Rs 20/-
N	Review of electricity bills (If the accuracy of licensee's bill is challenged by the consumer and a review of the bills is demanded)	
i	Single Phase Supply	Rs 10/-
ii	Three Phase Supply	
	load upto 20 kW	Rs 250/-
	load above 20 kW upto 60 kW	Rs 450/-
	load above 60 kW upto 60 kW	Rs 750/-
iii	Large Supply (above 100 kW)	Rs 1000/-
	NOTE: If the challenged bill is found to be incorrect, the credit of the fee will be given to the consumer, otherwise these will be forfeited.	
O	Testing and calibration including sealing of energy meter owned/supplied by the consumer	
i	Single Phase	Rs 100/-
ii	Poly phase whole current meter	Rs 500/-
iii	Poly phase meters with CTs	Rs 1200/-
iv	HT and EHT metering equipment	Rs 3500/-
P	Checking of the capacitors at the request of the consumer	
i	Consumer receiving supply at 230/440 V	Rs 250/- per visit
ii	Consumer receiving supply at above 400 V and up to 11 KV	Rs 500/- per visit
Q	Demand notice extension fee (for each period of three months)	
i	DS and NRS	Rs. 50/-
ii	AP	Rs. 500/-
iii	SP	Rs. 200/-
iv	MS/LS/BS	Rs. 2500/-
	Note: Demand notice shall be valid for 3 month initially with an extended/ grace period of further 3 months. After the expiry of grace / extended period of 3 months, the application shall be deemed as cancelled. Revival fee for cancelled application shall be twice the demand notice extension fee as prescribed above and will be done by load sanctioning authority for maximum period of another six months only in the blocks of three months each. After the expiry of demand notice (including grace period), 10% of the security shall be forfeited.	

Sr. No.	Description	Proposed
R	Where the initial installation of complete street light fittings and lamps as well as their subsequent replacement shall be done by the Street Lighting consumer, the line maintenance charges shall be as under:	
	(i) CFL/LED Lamps :	Rs. 5/- per lamp per month
	(ii) Other than CFL/LED Lamps :	Rs. 7/- per lamp per month

6.4 Schedule of Service Connection Charges and Service Rentals

Service connection charges are provided in the schedule of general and service connection charges and are to be recovered from all prospective consumers and existing consumers seeking extension in load. Schedule of service connection charges as applicable is given under:

A. SERVICE CONNECTION CHARGES FOR DOMESTIC AND COMMERCIAL SUPPLY

S. No.	Particular	Category	Rs.
1	Single Phase Fixed Per kW Charges		
a.	Up to 1 kW	Domestic	250
		NRS	250
b.	Above 1 kW and up to 3 kW	Domestic	300
		NRS	300
c.	Above 3 kW and 5 kW	Domestic	500
		NRS	750
2	Three Phase Fixed Per kW Charges		
a.	Above 5 kW	Domestic	750
		NRS	1000

B. Variable Charges

No variable charges are leviable upto 75 meters of service line length from the point of interconnection. Beyond 75 meters for all loads variable charges @ INR 125 per meter length of service line shall be recoverable for loads in excess of 5 kW.

- a. Domestic and Non Residential consumers falling under the following categories have the option, either to pay in lump sum the service connection charge as mentioned in the preceding clause or to pay monthly service rentals at 1.6 paisa per rupee of the estimated cost of the service line beyond the cost of 30.48 meters.

- i. Members of Schedule Castes.
- ii. Religious and Charitable institutions run by recognized/ registered associations or societies registered with Register of Societies.
- b. All such prospective and existing consumers who will pay or have paid service connection charges in full, shall be exempted from the payment of monthly service rentals.
- c. The service rentals to the consumers existing prior to 1st November 2002, if applicable already shall continue.

C. SERVICE CONNECTION CHARGES FOR INDUSTRIAL AND BULK SUPPLY (FOR NEW CONNECTIONS):

Load	Service Connection Charge
Upto 100 KVA	Rs. 750 / kW

Service connection charges under Para i) shall be applicable for loads upto 100 KVA where the length of new and augmented or both line(s) to be provided is up to 100 meters which will include 11kV line (whether overhead or cable LT line and service cable. Where this limit exceeds 100 meters, the applicant shall be required to pay the actual cost of @ INR 125 per meter of 11 kV line, LT line and service cable in excess of 100 meters as additional service connection charges (nonrefundable). However, no component of the distribution substation transformer to be created would be charged wherever applicable.

Extension of Load

- a. **Where the consumer is either paying service rentals or had paid the service connection charges on kW basis for the original load.**

i) Extension in load bringing to be charged at INR 750/- per the total load up to 100 kVA for extension part only. However charges for service line in excess of 100 meters shall be charged @ INR 125 per meter for length of service line (new or augmented or both) feeding such consumer. Rentals on original load, if applicable, already shall continue.

- b. **Where the consumers had paid the service connection charge in full.**

i) No charges for extension shall be recoverable where the cost of service/common part of service line had been paid by the applicant at the time of release of the original connection provided. No augmentation of service/common portion of service lines had been carried out ever since the release of connection and also the additional load can be

released from the existing line without augmentation and the cost deposited by the consumer at the time of release of original connection is not less than 'per kW charges' payable on the basis of total connected load (including extension in load). For calculating per kW charges, the rate as applicable at the time of release of original connection shall apply for the existing load and prevailing rates for the extension in load. Difference, if any, between the actual cost paid and the recoverable amount 'per KW charges' shall be payable by such consumers at the time of extension in load. This shall also apply to the cases fed through an independent feeder laid at the cost of the consumer. The cost of line/bay (33/66/132/220kV) paid by the consumer or at the time of clubbing/conversion paid by the consumer at the time of clubbing of supply to higher voltage shall be appropriated towards service connection charges at the time of subsequent release of extension in load, if applicable. However, for calculating total 'per kW charges' service connection charges already recovered from the consumer in respect of clubbing cases, applicable rates to different connections as existing immediately prior to clubbing are to be taken into account.

Cases involving augmentation of service/Common portion of service line or if the augmentation had taken place subsequent to release of connection shall be default with as per provisions of sub Para (a).

- c. While accessing the connected load for working out service connection charges, both general and industrial loads of an individual consumer at one location shall be taken into account.
- d. The "per kW", service charges for extension in load shall be as contained in above and those shall be in addition to the service rentals on the original load, if applicable thereon.
- e. An increase in the connected load even without increase in the contract demand shall call for payment of service connection charges on "per kW" basis as applicable to the category in which total connected load after extension falls and shall be recoverable for extension of the electrical part only. Consumers seeking extension in contract demand within the sanctioned connected load shall not be required to pay service connection charges on KW basis.
- f. Consumers seeking contract demand higher than 60% of the connected load, shall be charged one time charge termed 'Contract Demand Charges' as follows:

S. No.	Particular	Rs./kVA
1	For Contract Demand above 60% and up to 80% of connected load	200
2	For Contract Demand above 80% and up to 100% of connected load	300
3	Large Supply Consumers getting at 33 kV and above are exempted from the payment of one time contract demand charges for purpose of increasing contract demand	

- g. In case of LT connections, Service rentals to the consumer existing prior to 1-11- 2002, if applicable already shall continue.

D. RECOVERY OF SERVICES CONNECTION CHARGES FOR EXTENTION OF LOAD BY CONSUMERS WHO HAD PAID THE FULL COST OF THE LINE

Industrial and Bulk supply consumers availing connection for load exceeding 1 MW have to pay the entire cost of service line laid for them. By virtue of paying the entire cost of the line involved in releasing the connection, the consumer is entitled to avail (within five years) extension in load upto 100% of the original line for which the line had been erected provided that line so erected is capable of carrying the load i.e. original load and extended load up to 100% of the original load. If, however, line already erected is unable to take 100% extension of load, extension in load shall be limited to the capacity of the line. In such an event, the consumer is not required to pay service connection charges for the extension in load, provided the cost of the line already provided by him is more than the per kW charges calculated at the applicable rate from time to time on the total load including extension in load applied by the consumer.

- a. If the extension in load applied by the consumer is in excess of the capacity of line already erected or more than 100 % of the original load, consumer shall pay the service connection charges as applicable to the new applicants.
- b. If during the period of 5 years from the date of connection some load has already been released from the line, whose entire cost has been paid by the consumer, who seeks extension in load within five years up to the extent of the capacity of the line or 100% of the original load within 5 years up to the extent of the capacity of the line or 100 % of the original load, whichever is lesser, release of additional load shall be regulated as under:

Load released on voltage above 11 kV and loads 1MW and above:

Extension in load to the original consumer shall be allowed (within the contract demand for which the line was originally erected for the said consumer) at the cost of the electricity department, even if augmentation/ erection of new lines are required.

Load less than 1MW released on 11 kV

In this case care should to taken for a period of 5 years that a margin of 100 % of the load of the original consumer is available in the capacity of the line. If other consumer(s) want connection(s) to be released by utilizing the available margin, new consumer(s) singly or jointly, as the case may be shall pay towards the cost of augmentation of th e line so that sufficient margin in electricity carrying capacity is available to cater to the additional requirement of the original consumer.

- a. Provisions of the preceding Para's of this schedule shall not be applicable where as a result of extension in load the supply voltage level of the consumer changes or when the consumer changes the site of the premises.

E. RECOVERY CONNECTION CHARGES FOR AGRICULTURE POWER

All prospective tube well consumers covered under general category shall pay INR 3,000 per BHP as service connection charges. The above charges are recoverable where the total length of t h e service line including new 11 kV line, LT line (new/augmented) and service cable is upto 1 Km (out of which LT line/Service cable route length should not exceed 500 meters from the common pole).Where the total length of the service line is more than 1 km (out of which LT line/Service cable route length should not exceed 500 meters), any applicant under this category shall be required to pay the cost of the new 11 kV line beyond this limit at INR 125 per meter as additional service connection charges. However, no component of distribution substation/transmission cost would be charged.

Chapter 7: Compliance of Directives

7.1 This chapter illustrate the compliance report on the directives issued by the Commission in previous Tariff Orders

Sl. No.	Directive	Directives Issued by Commission	Reply
1.	Management Information System	The Petitioner has been submitting the requisite data. The Petitioner is directed to timely submit the reports in prescribed formats as per orders/directions of the Commission.	<p>The M/s NIELIT has already been designated for computerized billing of all category of consumers of Electricity Wing of Engineering Department UT, Chandigarh (EWEDC), who fully support to EWEDC and supplies all types of MIS in required format time to time. However, EWEDC is regularly forwarding the MIS data like monthly SOP details, progress of enforcement under directive-9, metering & billing information, RPO information etc. to Hon'ble commission in prescribed format.</p> <p>Smart Grid Pilot project: -</p> <p>The Smart Grid Pilot project is under execution wherein all the existing meters under the jurisdiction of Sub-division No.5 are to be replaced with smart meters. However, more than 5400 single phase meters have already been replaced with smart meters. The SCADA centre has also been installed and various software are under testing.</p> <p>Smart Grid Pan City project: -</p> <p>Smart Grid Pan City project is under process in which all the left-out meters shall be replaced with smart meters for which tender has already invited for appointment of Project Development Management Agency (PDMA). The tender is under process for approval of competent authority. The work is targeted for completion in 18 months from the allotment of tender to the executing agency by PDMA.</p> <p>Further, after successful implementation of Smart Grid Project, most of the modules/activities shall become online</p>

			which will made easier for generation of MIS at any time.
2.	Metering /replacement of Non-Functional or defective/ 11KV Meters	The Commission has observed that the quarterly report is only being submitted for consumer meters. The Commission in the previous order had also emphasized and directed the Petitioner to submit the quarterly report of 11 kV feeder meters and DT meters also. The Petitioner is directed to submit the progress report within one month of issuance of this order.	<p>The tender for installation of DLMS meters for energy audit in Electricity Wing of Engineering Department UT, Chandigarh (EWEDC)was floated but due to lack of participation, opening date was extended several times.</p> <p>In the meantime, Smart Grid Project is started under the NSGM wherein all the meters along with Feeder and DT meter shall be replaced with the Smart Meter and more than 5400 single phase meters have already been replaced with smart meters. Further it has come to the notice that the meters to be procured under DLMS work are not compatible with the new technology of Smart Grid work. Hence, the work for procurement of DLMS meter is under cancellation.</p>
3.	Energy Audit	Although DNIT for the work of providing DLMS Energy audit had been approved in Jan 2019, no tender for the same has been initiated till now. The Commission further directs the petitioner to submit the status report on the same within one month from issuance of this order	<p>To reduce the transmission and distribution losses , the audit meters are already installed on distribution transformers for energy audit purpose for Industrial Ares phase-I and Phase -II . The energy audit report for the Month of Nov-2020 have already been forwarded to the Hon'ble commission.</p> <p>The tender for installation of DLMS meters for energy audit in Electricity Wing of Engineering Department UT, Chandigarh (EWEDC)was floated but due to lack of participation, opening date was extended several times.</p> <p>In the meantime, Smart Grid Project is started under the NSGM wherein all the meters along with Feeder and DT meter shall be replaced with the Smart Meter and more than 5400 single phase meters have already been replaced with smart meters and SCADA Centre is also set up for online operation and monitoring of various activities.</p> <p>Further, the smart meters to be installed at the feeder and DT level under Smart</p>

			Grid project shall enable the Energy Audit.
4.	Demand Side Management and Energy Conservation	The Commission appreciates the effort undertaken by the Petitioner for compliance of this directive. The Petitioner is directed to expedite the process and submit quarterly reports to the Commission.	<p>The UJALA scheme for distribution of LED bulb, LED tube light & energy efficient fan has been launched through M/S EESL in Chandigarh on dated 06.03.2017. In the 1st quarter of FY 2020-21 under UJALA scheme for distribution of LED bulb (3851), LED tube light (89) & energy efficient fan (332) and in 2nd quarter distribution of LED bulb (4029), LED tube light (113) & energy efficient fan (225) has been replaced.</p> <p>Further, 5,91,273 Nos. LED bulb, 58,414 Nos. LED tube light and 16,791 Nos. energy efficiency fans has been distributed through this scheme upto 30.11.2020. It is estimated that this is leading to energy savings of more than 71,983 MWh of energy saved per year with monetary savings of over 29 Crore per year.</p> <p>Moreover, a tri-party agreement was signed on 25.09.2020 between Bureau of Energy efficiency, Electrical Inspectorate, Administration of UT, Chandigarh (SDA) and electricity Department Chandigarh with aim to provide essential support to DISCOMs for implementation of DSM measures under capacity building programme of DISCOMs. This programme involves various activities including establishment of DSM cell, manpower/consultancy support, capacity building of officials of DISCOMs and implementation of DSM action plan by the DISCOMs.</p> <p>Under capacity programme M/s BEE has appointed M/s PWC consultant in the matter. After conducting load survey and load research, M/s PwC has</p>

			<p>submitted a DSM action plan. Now M/s PwC has been asked to submit a detailed proposal for replacement of conventional fans with energy efficient ceiling fans for consumers of domestic and commercial category.</p> <p>Further, smart meters have an additional feature of TOD metering and its allied infrastructure. A pilot project under the area of S/Division No. 5 has already been allotted to M/S RECPDCL and the work is likely to be completed in this Financial Year.</p>
5.	Manpower Deployment	The Petitioner is directed to expedite the process and submit a status report by next tariff filing.	<p>The Manpower study has been approved by the Hon'ble JERC vide order dated 29.12.2014. The manpower annexure Group-A, B, C & D are enclosed herewith. Further, the JERC has directed to file half yearly return regarding progress in filling up the vacant posts so that the services to the consumers are provided as per Standard of Performance notified by the JERC. The case for necessary concurrence to the recommendations dated 29.12.2014 of the JERC has been sent to the Govt. of India, Ministry of Power, New Delhi vide Secy. Engg, Chandigarh Admn. Chandigarh Memo No. 4981 dated 14.07.2015. The Govt. of India, Ministry of Power vide letter dated 05.05.2017 has raised some observations which were remained under consideration of the Competent authority as intimated vide Chief Engineer cum Spl. Secy. (Engg.), UT., Chandigarh Memo No. 4494 dated 08.06.2018 and the matter remained in abeyance and could not be approved. The posts sanctioned by the Hon'ble Commission whether on outsource basis or on regular basis are very less than the posts already</p>

			<p>sanctioned by the Govt. of India but in the absence of approval, either the posts of already sanctioned by GoI or the posts approved by the JERC could not be filled up.</p> <p>At present, the matter of shortage of staff in the department was taken up with the competent authority of Chandigarh Administration, however, Chief Engineer cum Spl. Secy. (Engg.), UT., Chandigarh vide his office Memo No. 6741 dated 23.10.2019 has intimated that the process to appoint the consultant to study the feasibility of corporatization of Electricity Wing of Engineering Department UT, Chandigarh (EWEDC) has been undertaken and the manpower study also lies in the scope of said consultancy. However, Govt. of India, Ministry of Power had directed to privatize all the discoms in UTs in India and the process of privatization is under process. Further The case for filling up the posts through direct recruitment were returned by Chief Engineer cum Spl. Secy. (Engg.), UT., Chandigarh with the remarks that privatization of Electricity Wing of Engineering Department, UT, Chandigarh (EWEDC) is under process, as such, it would not be appropriate to carry out direct recruitment at this stage. In view of the decisions as taken at different stages as detailed above, number of posts in the Electricity Wing have come in the purview of deemed abolished/ abolished due to which the working of the Department hampered badly.</p>
6.	Segregation of T&D losses and loss reduction trajectory	The Commission directs the Petitioner to expedite the execution of the study. The Commission also directs the Petitioner to submit a detailed report of voltage wise T&D losses along with the next Tariff Petition.	Smart Grid project is under progress wherein all the meters including the Feeder/DT meters shall be replaced with smart meters which will enable for segregation of T&D losses and its reduction trajectory.

7.	Assets created from consumer contribution	<p>The Petitioner, despite repeated directions has failed to submit the desired information. Every year the Petitioner submits that the compilation of information is in process. The Petitioner in this regard is hereby directed to submit the desired information positively along with the next Petition otherwise the Commission will consider the value based on certain assumptions which will have financial repercussions on the Petitioner's ARR</p>	<p>All the assets created from the consumer contribution are under compilation and same shall be submitted accordingly.</p>
8.	Creation of SLDC	<p>The Commission had directed the Petitioner to form a separate SLDC which is ring fenced from the CED. The Petitioner was directed to deploy employees dedicated to the SLDC operations, which are independent from the CED. Till the operationalization of SLDC, the Petitioner was directed to immediately appoint an officer responsible for receipt and processing of Open Access applications. The Commission further directed the Petitioner that the process of creation of SLDC be expedited with help from POSOCO and funds from PSDF.</p> <p>The Commission fails to understand as to why this exercise has not been undertaken yet. This clearly shows that the Petitioner is not taking this directive seriously for improvement of its functioning. The</p>	<p>To comply with the direction of Hon'ble commission , the Assistant power Controller (APC) has been designated as nominee of SLDC and S.E. Electy as nominee of STU for the purpose of open Access vide CEUT office order No-663 dt-16/11/2018.</p> <p>The EWEDC has already This office had already taken the matter with POSOCO for intimating the scheduled of training to the officials of EWEDC with regard to system operators of SLDC, but no schedule for training has been provided by POSOCO till date. Meantime, access of BBMB web based SLDC monitoring system has been made through user ID and password through which all the incoming Nodal Points can be easily monitor by Power Controller (PC) office of U.T. Chandigarh and data of respective CGS can also be made available in prescribed format as desired by the PC U.T. Chandigarh.</p> <p>However, Govt. of India, Ministry of Power had directed to privatize all the Discoms in UTs in India and the privatization work is under process in U.T. Chandigarh also. The SLDC is being created to met statutory requirement of Electricity Act, 2003.</p>

		Commission directs the Petitioner to take up the matter with topmost priority and ensure that the process of creation of SLDC be expedited with help from POSOCO and funds from PSDF.	Further, UT Power Union, Chandigarh has filed Civil Writ Petition (CWP) in Punjab and Haryana High Court, UT, Chandigarh wherein the Hon'ble Court vide interim order dated 01.12.2020 has stayed the privatization process.
9.	Operational safety and policy for accidents and compensation	The Petitioner is hereby directed to secure the necessary approvals from the Chandigarh Administration and submit the Petition for approval before the Commission.	The Electricity Wing of Engineering Department UT, Chandigarh (EWEDC) already following the Workmen's Compensation Act, 1923 framed by Govt. of India and given Compensation as per Compensation act to the victims of accidents caused. In case of employee dies due to accident, Ex-Gratia as applicable from time to time is also given to the family of the deceased employee. Further, the privilege banking through Axis Bank has been initiated by Electricity Wing of Engineering Department UT, Chandigarh (EWEDC) and the employee drawing their monthly salary are covered under insurance scheme of Rs. 31 Lacs in case of accident and permanent disability. Moreover, a draft petition for seeking approval to implement Group Accident Insurance Policy in Electricity Wing of Engineering Department UT, Chandigarh (EWEDC) is under process of approval with competent authority of Chandigarh Administration and will be filed before the Hon'ble Commission in the near future.
10.	Non-achievement of capitalization target	This Commission looks at this matter with serious concern. The Petitioner in the APR of FY 2019 -20 has undertaken a capitalisation of INR 0.44 Cr till September 2019 against INR 69.14 Cr capitalisation approved in the MYT Order. The Petitioner on yearly basis has failed to achieve the capitalisation targets. Lower capitalisation signifies that efforts aren't being taken in	It is submitted that Capitalization of Rs. 5.46 Cr for FY 2019-20 has been achieved and further, Capitalization of Rs. 3.96 Cr has been achieved during the first two quarters of FY 2020-21. It is further submitted that due to COVID-19 lockdown was imposed by the Govt. of India which caused halting of various major works. Further the Govt. of India has imposed restriction on the budget/expenditure to be spent under various heads of accounts due to Financial crunch caused by COVID-19 which has resulted in non-achievement

		<p>enhancing the reliability and quality of supply to the consumers. The Commission directs the Petitioner to increase its efforts towards undertaking capital expenditure activities necessary to improve the service quality and target 24x7 supply to all consumers.</p> <p>Further, the Petitioner is directed to ensure that the capitalisation targets approved in the complete MYT Period as a whole are achieved. In case the Petitioner fails to achieve the target then appropriate penalties shall be imposed at the end of the Control Period.</p>	<p>of capitalization for the first two quarters of the current financial year. However, efforts are now being made to complete all the project in time.</p>
11.	<p>Monthly Billing for Domestic and Commercial/ Non Residential category consumers</p>	<p>The Petitioner is directed to ensure that monthly billing for all the categories except Agriculture Pumping Supply are implemented in the territory. The Commission suggests that the implementation of monthly billing may be done in a phased manner so that billing of certain number of consumers be shifted to monthly billing cycle every month/quarter. The Petitioner is directed to submit monthly compliance report to the Commission for monitoring.</p>	<p>At present, more than 85% consumers (Domestic & Commercial) are billed Bi-Monthly. The conversion of meter reading from Bi-Monthly to Monthly basis will lead to various problems as there is acute shortage of staff. Further, the software is also required to be amended for Monthly billing.</p> <p>The work for installation of smart meters under the NSGM is in progress, which will help for Monthly billing of all category of consumers including Domestic and Commercial category.</p>
12.	<p>Determination of Category wise/ Voltage wise Cost of supply</p>	<p>The Petitioner is directed to expedite the process to float the RFP and ensure that the study/report for the same is submitted along with the next tariff petition.</p>	<p>The RFP for category wise cost of supply to start collecting category wise and voltage wise data on losses, connected load, assets allocation is under process.</p> <p>In the meantime, the Smart Grid project is come on hand wherein all the existing meters shall be replaced with smart</p>

			<p>meters and will help for collection of categories wise and voltage wise accurate data for determination of cost of supply.</p>
13.	kVAh based tariff	<p>The Petitioner is directed to replace all the electro-meters with digital/smart meters enable with kVAh recording feature atleast for consumers connected at HT/EHT voltage. The Petitioner is directed to submit a report consisting of number of consumers still having electro-mechanical meters, roadmap to replace these meters, expenditure to be incurred and the cost benefit analysis of the same to the Commission along with the next tariff petition.</p>	<p>A number of mechanical and electro-mechanical meters which have not the feature of KVAH parameter. Therefore, kVAh based billing/tariff may not be started at this point of time.</p> <p>The Smart Grid Pilot project is under process wherein all the existing electronic meters are being replaced with smart meters. More than 5400 single phase smart meters have already been installed. The SCADA centre has also been installed and various software are under testing.</p> <p>Further, the appointment of PDMA for Smart Grid Pan City project is under process in which all the left-out meters shall be replaced with smart meters.</p> <p>Accordingly, After, installation of smart meters the kVAh based tariff will be proposed to Hon'ble Commission accordingly.</p>

**FORMAT FOR TRUE-UP OF FY 2019-20, ANNUAL PERFORMANCE REVIEW OF FY 2020-21
AND AGGREGATE REVENUE REQUIREMENT (ARR) FOR THE FY 2021-22 & TARIFF PROPOSAL
OF FY 2021-22**

ELECTRICITY WING OF ENGINEERING DEPARTMENT, CHANDIGARH

Form 1: ENERGY DEMAND YEAR 2019-20 (April 2019 to March 2020) - Actuals

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/KVA)	Energy Sale/ Demand (MUs)
1	Domestic - LT	1,97,519	868548.770	729.81
2	Domestic - HT	75	34921.150	29.40
3	Commercial - LT	25,351	217195.060	222.15
4	Commercial - HT	424	236099.190	262.34
5	Large Supply	98	68639.000	123.76
6	Medium Supply	1,270	69572.283	106.38
7	Small Power	1,311	21367.639	18.43
8	Agriculture	122	833.836	1.41
9	Public Lighting	1,308	4582.967	14.78
10	Bulk Supply	560	41652.849	82.88
11	Others temporary Supply	413	2586.770	4.20
Total Demand/ Sale Withinn State/UT		2,28,451	1565999.514	1,595.55

Form 1A: ENERGY DEMAND YEAR 2020-21 (April 2020 to March 2021) - Estimated

Sr. No.	Category of Consumer	No. of Consumers (first 6 months)	No. of Consumers at the end of the Year (Nos.)	Connected Load (first 6 months)	Connected Load at the end of the Year(KW/KVA)	Energy Sale/ Demand (first 6 months)	Energy Sale/ Demand (MUs)
1	Domestic - LT	1,97,675	2,01,886	869063.090	894612.5171	346.42	751.61
2	Domestic - HT	77	77	36779.690	35969.0774	8.15	30.28
3	Commercial - LT	25,478	26,057	218825.750	227523.9849	71.42	224.76
4	Commercial - HT	479	436	269820.220	247327.1195	91.87	265.42
5	Large Supply	97	102	68425.000	68639.0000	59.13	124.00
6	Medium Supply	1,434	1,319	77769.838	72565.3984	47.04	108.69
7	Small Power	1,443	1,360	23393.290	22404.2726	7.96	18.43
8	Agriculture	121	123	830.106	869.1009	0.63	1.41
9	Public Lighting	1,340	1,363	4641.451	4582.9670	6.80	14.78
10	Bulk Supply	553	572	41968.388	41803.8463	45.87	82.93
11	Others temporary Supply	233	413	904.000	2586.7700	1.50	4.20
Total Demand/ Sale Withinn State/UT		2,28,930	2,33,706	1612420.823	1618884.054	686.80	1,626.51

Form 1B: ENERGY DEMAND YEAR 2021-22 - Projected

Sr. No.	Category of Consumer	FY 2021-22		
		No. of Consumers at the end of the Year	Connected Load at the end of the Year (KW/KVA)	Energy Sale/ Demand (MUs)
1	Domestic - LT	2,06,349	921458.395	774.06
2	Domestic - HT	78	37048.451	31.18
3	Commercial - LT	26,782	238344.112	227.39
4	Commercial - HT	448	259089.004	268.54
5	Large Supply	106	68639.000	124.24
6	Medium Supply	1,370	75687.283	111.05
7	Small Power	1,412	23491.198	18.43
8	Agriculture	123	905.857	1.41
9	Public Lighting	1,420	4582.967	14.78
10	Bulk Supply	584	41955.391	82.97
11	Others temporary Supply	413	2586.770	4.20
Total Demand/Sale Withinn State/UT		2,39,085	1673788.428	1,658.27

Form 2: AT & C Loss of Licensee

Sr. No.	Particulars	Calculation	Unit	Actual	Ensuing year (Projection)	
				2019-20	2020-21	2021-22
1	Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM	A	MU	32.08	32.58	32.58
2	Input energy (metered received at Periphery of CED)	B	MU	2,143.25	2,151.76	2,233.98
3	Input energy (metered Export by the DISCOM at Periphery of CED)	C	MU	264.64	216.13	265.26
4	Total Energy Available at Periphery	D=A+B-C	MU	1,910.69	1,968.22	2,001.30
5	Transmission Losses	E	MU	75.76	78.01	79.34
6	Actual Energy Available At CED Periphery for the sale of Discoms	F=D-E	MU	1,834.93	1,890.21	1,921.96
7	Energy billed to consumers within the licensed area of the DISCOM	G	MU	1,595.55	1,626.51	1,658.27
8	Amount billed to consumer within the licensed area of DISCOM (incl FPPCA)	I	Rs. Crs	841.63	931.72	950.02
9	Collection efficiency (%) (= Revenue realized/ Amount billed)	J	%	98%	98%	98%
10	Energy realized by the DISCOM	K=J*G	MU	1,563.64	1,593.98	1,625.11
11	Distribution loss (%)	L	%	11.91%	11.85%	11.80%
12	AT & C Loss (%)	$M = \{(D-K)/D\} * 100$	%	18.16%	19.01%	18.80%

* State does not have Its Own Generation

** Quantum purchased from solar plants has been considered within periphery

Form 3 : ENERGY BALANCE (All figures in MU) FY 2019-20

Sr. No.	Item	April-March - WR + SR
1	Retail Sales to Consumers	1595.55
	Add: T&D Losses - %	11.91%
	T&D Losses - Mus	215.74
2	Energy Requirement at Chandigarh Periphery	1,811.29
3	Total Power Scheduled by ED Chandigarh	
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	2143.25
	Add: Actuals of Over/Underdrawal, Traders and Sale to exchange	(264.64)
	Add: Power from Open Market during peak/ (surplus Power diversion to exchange during off-peak)	
	Total	1878.61
4	Less: PGCIL Losses - %	4.03%
	PGCIL Losses - MU	75.76
5	Total Power Purchased within Chandigarh	1802.85
	Add: Co-generation	
	Add: Independent Power Producers (IPP)	8.44
	Total	1,811.29
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	1,811.29

Form 3A: ENERGY BALANCE (All figures in MU) FY 2020-21

Sr. No.	Item	April-March (Proj.) - WR + SR
1	Retail Sales to Consumers	1,626.51
	Add: T&D Losses - %	11.85%
	T&D Losses - Mus	239.69
2	Energy Requirement at Chandigarh Periphery	1,866.20
3	Total Power Scheduled by ED Chandigarh	
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	2151.76
	Add: Actuals of Over/Underdrawal, Traders and Sale to exchange	(216.13)
	Add: Power from Open Market during peak/ (surplus Power diversion to exchange during off-peak)	
	Total	1935.63
4	Less: PGCIL Losses - %	4.03%
	PGCIL Losses - MU	78.01
5	Total Power Purchased within Chandigarh	1857.62
	Add: Co-generation	
	Add: Independent Power Producers (IPP)	8.58
	Total	1,866.20
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	1,866.20

Form 3B: ENERGY BALANCE (All figures in MU) FY 2021-22

Sr. No.	Item	April-March (Proj.) - WR + SR
1	Retail Sales to Consumers	1,658.27
	Add: T&D Losses - %	11.80%
	T&D Losses - Mus	239.69
2	Energy requirement at Chandigarh Periphery	1,897.95
3	Total Power Scheduled by ED Chandigarh	
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	2233.98
	Add: Actuals of Over/Underdrawal, Traders and Sale to exchange	(265.26)
	Add: Power from Open Market during peak/ (surplus Power diversion to exchange during off-peak)	
	Total	1968.72
4	Less: PGCIL Losses - %	4.03%
	PGCIL Losses - MU	79.34
5	Total Power Purchased within Chandigarh	1889.38
	Add: Co-generation	
	Add: Independent Power Producers (IPP)	8.58
	Total	1,897.95
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	1,897.95

Form 4 (NL): Power Purchase
(Projected)

Sr. No.	Organisation	Name of Project	Type	Capacity	Entitlement in %	FY 2020-21				
						Units Available	Fixed Charges	Energy Charges	Other Charges	Total Charges
1	NTPC	Singrauli	Coal	2000	0.00	10.43	1.82	5.01	-0.13	6.70
2		Rihand I	Coal	1000	1.00	60.17	7.28	9.06	-0.81	15.52
3		Rihand II	Coal	1000	0.80	61.06	6.27	7.59	-0.07	13.80
4		Rihand III	Coal	1000	0.55	46.03	8.01	5.44	0.10	13.55
5		Unchahar I	Coal	420	0.48	10.02	1.82	4.65	0.40	6.87
6		Unchahar II	Coal	420	0.71	14.93	2.79	3.52	0.41	6.73
7		Unchahar III	Coal	210	0.48	7.96	1.40	6.39	0.41	8.19
8		Unchahar IV	Coal	500	0.84	27.23	6.13	3.85	0.83	10.81
9		Anta	Gas	419	1.19	6.14	5.70	2.62	-0.18	8.14
10		Auriya	Gas	663	0.75	10.56	7.11	6.32	0.36	13.79
11		Dadri	Gas	830	0.61	29.50	7.73	6.68	0.47	14.88
12		Kahalgaon II	Coal	1500	0.20	19.49	1.70	2.45	-0.03	4.12
13		Dadri II	Coal	980	0.00	2.85	2.53	2.15	0.27	4.95
14		Koldam Hydro	Hydel	800	0.79	48.79	14.12	9.79	-0.28	23.63
15		Singrauli Hydro	Hydel	8	0.00	0.26	-	3.03	0.03	3.06
16		Tanda II	Coal	660	0.39	22.03	3.04	2.67	0.22	5.93
17		Other				1.12	-	0.71	-2.95	-2.24
		Total NTPC				378.57	77.44	81.93	-0.96	158.42
18	NHPC	Salal	Hydel	690	0.27	9.94	0.85	0.62	0.87	2.34
19		Tanakpur	Hydel	94	1.28	5.09	1.31	0.82	0.01	2.14
20		Chamera I	Hydel	540	3.90	97.26	10.46	11.26	0.45	22.16
21		Chamera II	Hydel	300	0.67	17.22	3.13	1.77	0.06	4.95
22		Uri	Hydel	480	0.62	21.18	1.75	1.79	0.56	4.10

Sr. No.	Organisation	Name of Project	Type	Capacity	Entitlement in %	FY 2020-21					
						Units Available	Fixed Charges	Energy Charges	Other Charges	Total Charges	
23	NHPC	Dhauliganga	Hydel	280	0.72	27.07	4.00	3.32	1.02	8.35	
24		Dulhasti	Hydel	390	0.47	44.39	12.43	11.92	3.14	27.49	
25		Sewa II	Hydel	120	0.83	13.29	4.46	3.72	6.94	15.12	
26		URI II	Hydel	240	0.63	21.88	3.87	3.15	-2.72	4.31	
27		Chamara III	Hydel	231	0.60	21.26	5.43	3.90	-0.53	8.81	
28		Parbati-III	Hydel	520	0.60	13.50	6.61	2.10	0.02	8.72	
29		K. Ganga	Hydel	330	0.00	14.34	3.10	2.85	1.21	7.16	
30		Other					-	-	-	-0.44	-0.44
		Total NHPC					306.42	57.39	47.22	10.60	115.21
31		APCPL	Jhajjar (Aravali)	Coal	1500	0.00	11.78	13.00	4.30	-0.21	17.08
	Total APCPL						11.78	13.00	4.30	-0.21	17.08
32	NPCIL	NAPP	Nuclear	440	1.14	82.31	-	25.17	1.37	26.53	
33		RAPP (#3 and #4)	Nuclear	440	0.00	15.27	-	5.18	0.36	5.54	
34		RAPP (#5 and #6)	Nuclear	440	0.68	78.88	-	30.84	0.87	31.71	
35		Other					-	-	-	-0.31	-0.31
		Total NPCIL					176.47	-	61.19	2.29	63.48
36	SJVNL	NATHPA JHAKRI	Hydel	1500	0.53	109.40	13.83	12.63	-1.55	24.92	
37		Rampur	Hydel	412	0.00	18.21	4.49	3.79	-0.30	7.99	
38		Other					-	-	-	0.78	0.78
		Total SJVNL					127.61	18.33	16.42	-1.06	33.69
39	BBMB	BBMB 3.5%	Hydel	1325	3.50	585.18	-	-	-	-	
40		BBMB 1 LU	Hydel	1 LU per day		85.97	-	13.55	0.05	13.60	
41		BBMB 10 LU	Hydel	10 LU per day		23.22	-	135.53	0.98	136.51	
42		BBMB O&M Charges	Hydel			-	-	-	15.04	15.04	
43		BBMB R&MU Charges	Hydel			-	-	-	1.11	1.11	
44		ULDC etc.	Hydel			-	-	-	0.09	0.09	
45		DEHAR	Hydel	990	3.50	-	-	-	-	-	
46		PONG	Hydel	396	3.50	-	-	-	-	-	
47		Other					-	-	-	-1.61	-1.61
		Total BBMB					694.37	-	149.08	15.66	164.74

Sr. No.	Organisation	Name of Project	Type	Capacity	Entitlement in %	FY 2020-21				
						Units Available	Fixed Charges	Energy Charges	Other Charges	Total Charges
48	THDC	Koteshwar	Hydel	400	0.36	15.27	4.14	3.56	-0.14	7.56
49		Tehri	Hydel	1000	4.60	168.67	38.28	38.44	-1.48	75.23
50		Other				-	-	-	8.09	8.09
		Total THDC					183.95	42.41	41.99	6.47
51	MUNPL	Meja	Coal	660	0.23	7.70	6.12	2.45	-0.19	8.38
		Total MUNPL					7.70	6.12	2.45	-0.19
		Annual Total				1,886.87	214.69	404.58	32.60	651.87
		Bilateral/ Power Exchange								-
		PTC				36.60	-	12.50	-	12.50
		PTC REC				-	-	-	4.16	4.16
		UI Actual				228.30	-	67.19	-	67.19
		CREST				6.94	-	5.53	-	5.53
		Pvt. Solar				1.64	-	1.20	-0.01	1.19
		Grand Total				2,160.34	214.69	491.00	36.75	742.44
		<u>Other Charges</u>								
		PGCIL Charges					-	-	74.93	74.93
		NRLDC Charges					-	-	0.15	0.15
		Reactive Energy Charges					-	-	0.00	0.00
		PSPCL/PSTCL Reactive					-	-	0.08	0.08
		Total Power Purchase Cost				2,160.34	214.69	491.00	111.91	817.60

Form 4A (NL): Power Purchase
(Projected)

Sr. No.	Organisation	Name of Project	Type	Capacity	Entitlement in %	FY 2021-22				
						Units Available	Fixed Charges	Energy Charges	Other Charges	Total Charges
1	NTPC	Singrauli	Coal	2000	0.00	10.43	1.92	5.29	-0.13	7.08
2		Rihand I	Coal	1000	1.00	60.17	7.69	9.58	-0.86	16.41
3		Rihand II	Coal	1000	0.80	61.06	6.63	8.02	-0.07	14.59
4		Rihand III	Coal	1000	0.55	46.03	8.47	5.75	0.10	14.32
5		Unchahar I	Coal	420	0.48	10.02	1.92	4.91	0.43	7.26
6		Unchahar II	Coal	420	0.71	14.93	2.95	3.73	0.44	7.11
7		Unchahar III	Coal	210	0.48	7.96	1.48	6.75	0.43	8.66
8		Unchahar IV	Coal	500	0.84	27.23	6.48	4.07	0.88	11.43
9		Anta	Gas	419	1.19	6.14	6.03	2.77	-0.19	8.60
10		Auriya	Gas	663	0.75	10.56	7.51	6.69	0.38	14.58
11		Dadri	Gas	830	0.61	29.50	8.17	7.07	0.50	15.73
12		Kahalgaon II	Coal	1500	0.20	19.49	1.80	2.59	-0.03	4.36
13		Dadri II	Coal	980	0.00	2.85	2.67	2.28	0.28	5.23
14		Koldam Hydro	Hydel	800	0.79	48.79	14.93	10.35	-0.30	24.98
15		Singrauli Hydro	Hydel	8	0.00	0.26	-	3.20	0.03	3.23
16		Tanda II	Coal	660	0.39	22.03	3.22	2.82	0.23	6.27
17		Other				-	-	-	-	-
		Total NTPC				377.45	81.87	85.87	2.11	169.85
18	NHPC	Salal	Hydel	690	0.27	9.94	0.90	0.66	0.92	2.47
19		Tanakpur	Hydel	94	1.28	5.09	1.38	0.87	0.01	2.26
20		Chamera I	Hydel	540	3.90	97.26	11.05	11.90	0.48	23.43
21		Chamera II	Hydel	300	0.67	17.22	3.30	1.87	0.06	5.23
22		Uri	Hydel	480	0.62	21.18	1.85	1.89	0.59	4.34

Sr. No.	Organisation	Name of Project	Type	Capacity	Entitlement in %	FY 2021-22					
						Units Available	Fixed Charges	Energy Charges	Other Charges	Total Charges	
23	NHPC	Dhauliganga	Hydel	280	0.72	27.07	4.23	3.51	1.08	8.83	
24		Dulhasti	Hydel	390	0.47	44.39	13.14	12.60	3.32	29.06	
25		Sewa II	Hydel	120	0.83	13.29	4.72	3.93	7.34	15.98	
26		URI II	Hydel	240	0.63	21.88	4.09	3.33	-2.87	4.55	
27		Chamara III	Hydel	231	0.60	21.26	5.74	4.13	-0.56	9.31	
28		Parbati-III	Hydel	520	0.60	13.50	6.98	2.22	0.02	9.22	
29		K. Ganga	Hydel	330	0.00	14.34	3.27	3.02	1.28	7.57	
30		Other				-	-	-	-	-	
		Total NHPC					306.42	60.67	49.92	11.67	122.26
31		APCPL	Jhajjar (Aravali)	Coal	1500	0.00	11.78	13.74	4.54	-0.08	18.20
	Sub Total						11.78	13.74	4.54	-0.08	18.20
32	NPCIL	NAPP	Nuclear	440	1.14	82.31	-	26.61	1.44	28.05	
33		RAPP (#3 and #4)	Nuclear	440	0.00	15.27	-	5.47	0.39	5.86	
34		RAPP (#5 and #6)	Nuclear	440	0.68	78.88	-	32.61	0.92	33.53	
35		Other				-	-	-	0.33	0.33	
		Total NPCIL					176.47	-	64.69	3.08	67.77
36	SJVNL	NATHPA JHAKRI	Hydel	1500	0.53	109.40	14.62	13.36	-1.64	26.34	
37		Rampur	Hydel	412	0.00	18.21	4.75	4.01	-0.31	8.44	
38		Other				-	-	-	1.01	1.01	
		Total SJVNL					127.61	19.37	17.36	-0.94	35.80
39	BBMB	BBMB 3.5%	Hydel	1325	3.50	585.18	-	-	-	-	
40		BBMB 1 LU	Hydel	1 LU per day		85.97	-	14.33	0.05	14.38	
41		BBMB 10 LU	Hydel	10 LU per day		23.22	-	143.28	1.04	144.32	
42		BBMB O&M Charges	Hydel			-	-	-	15.90	15.90	
43		BBMB R&MU Charges	Hydel			-	-	-	1.18	1.18	
44		ULDC etc.	Hydel			-	-	-	0.09	0.09	
45		DEHAR	Hydel	990	3.50	-	-	-	-	-	
46		PONG	Hydel	396	3.50	-	-	-	-	-	
47		Other				-	-	-	-	-	
		Total BBMB					694.37	-	157.61	18.26	175.87

Sr. No.	Organisation	Name of Project	Type	Capacity	Entitlement in %	FY 2021-22				
						Units Available	Fixed Charges	Energy Charges	Other Charges	Total Charges
48	THDC	Koteshwar	Hydel	400	0.36	15.27	4.37	3.76	-0.14	7.99
49		Tehri	Hydel	1000	4.60	168.67	40.47	40.63	-1.57	79.54
50						-	-	-	9.42	9.42
		Total THDC					183.95	44.84	44.40	7.71
51	MUNPL	Meja	Coal	660	0.23	7.70	6.47	2.59	-0.20	8.86
		Total MUNPL					7.70	6.47	2.59	-0.20
		Annual Total				1,885.74	226.97	426.98	41.61	695.55
		Bilateral/ Power Exchange								-
		PTC				36.60	-	13.21	-	13.21
		PTC REC				-	-	-	-	-
		UI Actual				228.30	-	71.03	-	71.03
		SECI	Wind			83.33	-	23.58	0.58	24.17
		CREST				6.94	-	5.85	-	5.85
		Pvt. Solar				1.64	-	1.27	-0.01	1.26
		Grand Total				2,242.55	226.97	541.92	42.18	811.07
		<u>Other Charges</u>								
		PGCIL Charges					-	-	79.22	79.22
		NRLDC Charges					-	-	0.16	0.16
		Reactive Energy Charges					-	-	0.00	0.00
		PSPCL/PSTCL Reactive charges					-	-	0.09	0.09
		Total Power Purchase Cost				2,242.55	226.97	541.92	121.64	890.53

Form 5: Capital Expenditure 2019-20

Investment Scheme - Monitoring Format 2019-20

PROJECT DETAIL		
Sr. No.	Scheme Name	FY 2019-20 (Actual) in Rs.
1	2	3
Division no. 1		
1	Tender no. OP1/44/2017-18 -- Supply erection of 3x100 KVA P/M T/F to release the electric connection T/WELL at different in rehabilitation colony, Chandigarh.	3,040
2	PROVIDING 2.NOS 315 KVA PM S/STN NEAR H.NO 61 (T-1 & NEAR COMMUNITY CENTRE (T-2) TO GIVE RELIEF TO 2 NOS 200 KVA T/F & 1 NO 300 KVA T/F IN P.V RESIDENTIAL COMPLEX SEC-25 CHD & AUGMENTATION OF OLD WORKOUT UNDER SIZE CT CONDUCTOR OF SIZE 20,30,50MM2 IBM SCHEME NO-W1/2016/15002	5,86,115
3	T. No.-56 -17/18 For prov 2*315 near #125 or #47 sect 10A	79,620
4	Tender No. OP1/50/18-19 -- Prov. 1x100 KVA P/M T/F near RN-15 Govt. T/w Village Dhanas to deload the existing 315KVA T/F near RN-15 village Dhanas. IBM Scheme No.W1/18/16776 -- A&A no.12327	2,57,298
5	Release of 11 Kv connection at bank square sector 17, Chandigarh.	15,06,639
6	STRENGTHEN THE DISTRIBUTION SYSTEM AFTER REPLACEMENT AND AUGMENTATION OF 11KV U/G PILCA CABLE 3*185/120/70 MM SQ LINK OF FEEDER CABLE WITH 3*300 MM XLPE CABLE IN SECTOR 9 AND 10, CHD.	57,68,422
7	Providing Additional 315 kva T/F near choe at colony no. 2 & 1 no 100 kva T/F in colony No-1, village khuda lahora for deloading the existing 2 nos, 200 kva T/Fs	4,21,744
8	Providing 2*315 kva P/M T/F H.No85 Sec-16 and H.no 222 Sec-16 for deloading the existing 2*300kva T/F New H.no 1965c 16-a (IBM SCHEME NO W1/17/15936)	8,43,488
9	TENDER NO. OP-1/31/2019-20 FOR PROVIDING 66KV TOWER FOR RAISING THE HEIGHT OF 66 KV O/H LINE FROM 66KV G/S/STN SEC-12 TO NEAR GATE NO.2 VIKAS NAGAR NAYAGAON (PB) TOWERDS PATIALA KI RAO CHOE. U.T. CHANDIGARH	8,07,088
10	PROVIDING 1*315 KV A P/M T/F NEW H.NO 516/16C DELOADING THE EXISTING 300 KVA T/F NEW H.NO 514/16C CHD OB, MP/ W1/17/150 306.	10,42,780
11	GSC -1	8,44,892
12	GSC -2	3,04,800
13	GSC -4	8,41,075
14	TENDOR NO. OP1/38/19-2020 RCE FOR PROVIND 1*100 KVA P/M T/F NEAR KALI MATA MANDIR FOR T/WELL DELOADING TO EXISTING 300 KVA T/F AMBEDKAR COLONY ON AMAN COLONY DHANAS (IMB NO. W1/2019/17750)	724
15	AUG. OF 100 KVA P/M T/F TO 315 KVA P/M S/STN TO RELEASE THE ELECTY CONNECTION TO NEWLY CONSTRUCTED GOVT. M. HIGH SCHOOL SEC-12, CHD (IBM NO W1/2019/17844)	4,31,512
16	TENDER NO. OP1/39/2019-20 OPENED ON DATED 21..11.2019 FOR PROVIDING 100 KVA P/M S/STN. RELEASE THE ELECTRICITY CONNECTION TO GOVT. T/WELL NO. 14 FOR IRRIGATION WATER AT VILLAGE KAIMBWALA UNDER ELECTY. OP S/DIVN. NO. 2 SECTOR 10 CHD.	1,45,151
17	TENDER NO. OP-1/34/2019-20 OPENED ON DATED 18-09-19 FOR SUPPLY, FABRICATION AND INSTALLATION OF 1 NO. BOOM TYPE SKY LIFT SUITABLE FOR SAFE WORKING HEIGHT OF 10 MTS. AND OUT REACH OF 3.5 MTS., WITH SAFE WORKING LOAD OF 250 KGS, COMPLETE AS PER DETAILS SPECIFICATION FOR THE MTC. OF POWER SYSTEM AND THE STREET LIGHT UNDER eLECTY. 'OP' S/DIVN. NO. 4 SEC-15, CHD.	14,80,780

PROJECT DETAIL		
Sr. No.	Scheme Name	FY 2019-20 (Actual) in Rs.
1	2	3
18	TENDER OP.1/21/19-20 REC FOR PROVING 1*315 KVA P/M T/F NEAR TOILET BLOCK NO.2 KHUDA LAHORA TO DELOADING EXISTING 1*315KVA T/F (IBM NO. W1/2019/17743)	4,31,781
19	Repl of 315 *3 & 1000 KVA *1 in sub div no.1, Chd	4,21,744
20	PROVIDING 4*315 KVA P/M T/Fs NEAR SPORTS COMPLEX, SEC-7B, SAMPARK CENTRE, SEC-7B, BACKSIDE SCO-23, SEC-7C & BACKSIDE SCO-38, SEC-7C FOR THE IMPROVEMENT OF LD SYSTEM UNDER THE JURISDICTION OF ELEC. 'OP' SUB DIVN. NO. 2, U.T. CHANDIGRH.	20,41,810
21	Repl of 11 KV cable sect 9 & 10 (road cut) same as serial no. 10 & 30	1,61,179
22	Replacement of bare conductor with Aerial bunched cables of outlived pole and services to prevent fatal/non fatal accidents/pilferage of power in village Sarangpur under s/d 4	21,57,640
23	Tender No. OP1/07/18-19 -- RCE for repair/renovation I/D S/STN building under sdo electy op s/div, no, 4 sec 16 17 chd (in sec 15A, B, C & D, sector 16 B & D sector 17 PSIDC shopping center police colony rcc mandikaran road)	4,23,144
24	Repl. Of defective/ outlived 11KV 3x185 Pilca cable with 3*315mm2 XLPE cable between link at I/D S/stn. Sector 15 to I/DS/SM 16 Dand I/OS/SH/ED to GMSH Sec 16 Chd. IBM Scheme No.W1/18/16533 ----- A&A mp/1665	24,26,376
25	Tender No.OP1/46/18-19 --- Prov. 03 nos. 315KVA P/M S/Stn. near #424, Sec 23B (T-I) near #1181, Sec 23B (T-II) & near #1580, Sec 23B (T-III) to given relief to the LT O/G to #1482, Sec 23B, LT O/G to #1525 Sec 23B to deload 02 nos. I/D T/F 1000KVA & 800KVA at 11KV I/D S/Stn. Sector 23B, chd.	17,70,967
26	REPLACEMENT OF AUGMENTATION OF 11KV PILCA CABLE WITH 11KV XLPE CABLE IN REC 22,23,24, UNDER SDO ELECTY 'OP' S/DIVN NO. 1 SEC-23 CHD IBM SCHEME NO. W1/2018/16406	13,76,225
27	TENDOR OP1-58/2019-20ROUGH COST ESTIMATE FOR PROVIDING 11KV INDEPENDENT UNDERGROUND FEEDER FROM FORTHCOMING 66KV SECTOR-34 I/D S/Stn. SECTOR 24-C, TO PROVIDE UNINTERRUPTED POWER SUPPLY TO JUDGES HOUSES OF SECTOR 24 AND TO RESIDENTS OF SECTOR 23, CHANDIGARH, (IBM SCHEME NO. W1/2019/18065)	57,67,488
28	REC FOR PROVING 3*315 KVA P/M T/F NEAR GATE NO.1, GATE NO.2 AND E.1-19 PU SEC-14 TO DELOADING THE EXISTING LD SYSTEM UNDER ELECTY OP S/DIVN-4 SEC-15 .CHD (IBM NO. W1/2019/17751)	336
29	DNIT FOR STRENGTHENING OF DISTRIBUTION SYSTEM BY PROVIDING 5 NOS 315 KVA T/F P/M S/STN FOR UNINTERRUPTED POWER SUPPLY TO THE RESIDENTS OF REHABILITATION COLONY SEC-25 CHD	23,13,948
30	PROVIDING LT ACB AS WELL AS LT SHUNT CAPACITOR ON 300/315 KVA P/M T/F UNDER THE JURISDICTION OF ELECTY OP S/DIVN-4, SEC-15, CHD. (IBM NO. W1/2019/18117)	3,41,880
31	RCE FOR AUGMENTATION OF 4*200 KVA TO 4*315 KVA T/F NEAR OM SHANTI MILK COLONY DHANAS NEAR H.NO 190 AND DOUBLE STOREY HOUSE DHANAS, CHANDIGARH FOR IMPROVEMENT OF LD SYSTEM (IBM NO. W1/2019/18098)	314
	Total	3,50,00,000

PROJECT DETAIL		
Sr. No.	Scheme Name	FY 2019-20 (Actual) in Rs.
1	2	3
Division no. 2		
1	REC for providing additional 315KVA T/F in village krishangarh near Shop No. 226 for deloading existing 300KVA T/F under jurisdiction of Electy OP S/Divn 8 Manimajra Chandigarh (IBM No. W1/17/15685).	2,27,666
2	Providing 315KVA adl P/M T/F near adjoining to existing 300KVA T/F for deloading the existing 300 KVA T/F at village Raipur Kalan M.M, Chd (IBM No. W1/17/15803)	44,109
3	Providing Additional 11 KV feeder for village Hallomajra to bifurcation of load of existing 11 KV Behlana feeder under the jurisdiction of Electy Op S/Divn No 5 I/A Chandigarh (IBM Scheme No. W1/18/16997)	17,99,267
4	Providing additional 315 KVA T/F adjoining to existing 300 KVA T/F in front of Govt. School in Charan Singh Colony to deloading the 02 nos. existing 300 KVA and 200 KVA T/F under Elec. OP S/Divn. No.8,Manimajra,Chandigarh. (DRG-521)	1,01,048
5	RCE for Aug. of exisiting 100 KVA T/F with 315 KVA P/M T/F St.light and RUB V. Nagar , Chd	1,01,048
6	Replacement of bare conductor with 11KV 3x300mm2 XLPE cable U/G to remove the encumbances from the houses situated in village Behlana (IBM No. W1/2018/16802)	21,54,507
7	Providing additional P/M T/F 315 KVA Near H.No 2203 PWT Mani Majra Chd For deloading 300 KVA T/F Bajri wala Near H NO 2203 PWT Manimajra Chd (IBM Scheme No W1/17/15192)	6,23,842
8	RCE for replacement of bare conductor with 1 KV 300mm2 XLPE U/G Cable to remvoe the encumbrances from the houses situated in village Daria under Electricity OP Division No. 5 I/A chandigarh (IBM Scheme No. W1/2018/16898).	29,74,131
9	Rough Cost Estimate for providing 15 Nos. Desktop Computers 05 Scanners and 15 Nos printers under the Executive Engineer, Electy OP Divn No. 2 U.T., Chandigarh.	6,80,380
10	Release of 1210 nos. Electricity Connections under Elect. 'OP' S/Divn. No. 5, U.T., Chd. for the year 2019-20 (W1/2019/17793)	9,41,878
11	Release of 117 nos. Industrial Service Connections under Elect. 'OP' S/Divn. No. 5, U.T., Chd. for the year 2019-20 (W1/2019/17756)	3,83,550
12	Providing GSC OP8	11,05,526
13	Appointment of Project Management agency for Twerky Execution including Supply Erection commission project Management. Design, engineering, inspection for Smart Grid Project under Electricity S/Divn NO. 5 Chandigarh.	21,79,00,000
14	REC for Electrification of outside Lal Dora for release of individual connection to the residents of Deep Complex in village Hallomajra under the jurisdiction of SDO Elec. Op S.Divn. No. 5,Chandigarh. (IBM No. W1/16/15016)	1,32,683
15	RCE for providing 11 KV independent U/G feeder to Mauli Complex Manimajra from 66 KV Grid Sub Station Manimajra, UT Chandigarh for making the alternative source of 11 KV supply alongwith 11 KV Ring main under the jurisdiction Electy. OP S/Divn. No.8, Manimajra UT Chd. (DRG-657) (IBM No. W1/18/17001)	42,19,940

PROJECT DETAIL		
Sr. No.	Scheme Name	FY 2019-20 (Actual) in Rs.
1	2	3
16	Estimate for arranging spare T/F of 315 KVA distribution T/Fs (3Nos) and 1000 KVA T/F (1No) for replacement against damaged T/F for restoration of supply on emergent basis, under Electy OP S/Divn No 8 MM Chd (IBM No. W1/17/15247).	8,43,488
17	Providing 315 KVA P/M T/F and Replacement of existing Old/outliner/Brunt ACSR with 103mm2 in Vill Behlana under OP S/Divn No 5 I/A PH I Chandigarh (IBM No. W1/2018/16897)	6,71,354
18	RCE for Providing 2X315 KVA P/M T/F & Repair of existing Old/Burnt ACSR with 103mm2 in Village Hallo Majra Chandigarh	15,33,139
19	Providing 2X315 KVA P/M T/Fs near H.No. 1698 and 2570 M/Complex MM Chd for deloading the existing 3X300 KVA P/M T/Fs Near H. No. 1257 Opp. Community Centre and H.No. 2540, Mauli Complex M.M Chandigarh under Electy OP S/Divn No. 8 MM Chd. (IBM Scheme No. W1/18/16429)	8,43,488
20	Providing 315 KVA P/M T/F Near H.No. 1052 Morigate for deloading the existing 300 KVA P/M T/F near children park Govindpura MM under the jurisdiction of Electy OP S/Divn No. 8 MM Chd. IBM Scheme No. W1/18/17004)	8,00,480
21	Providing additional 315 KVA T/F near shad cabin type S/Stn Mansa Devi road MM. for deloading the existing 500 KVA T/F in side cabin Type S/Stn at Mansa Devi Road MM Chd (IBM NO. W1/16/15191).	4,21,744
22	Replacement of Bar conductor with 11 KV 3x300mm2 XLPE U/G Cable to remove the encumbrance from the 66 KV G/S/STN. Manimajra.	7,22,062
23	Providing additional 2X315 KVA P/M T/F near railway line Gali no. 5 and near Gali No. 1, Pipli wala town, MM U.T., Chandigarh for deloading existing 2X300 KVA T/F near Gudu Wala Nagpal Chakki Pipali wala town MM Chandigarh (IBM Scheme W1/17/15802)	9,52,688
24	Providing 315 KVA P/M T/F near Govt T/Well Vill Mauli Jagran, for deloading the existing 500 KVA P/M T/F Near Govt T/Well Vill Mauli Sagram under the jurisdiction of Electy OP S/Divn No 8 MM Chd (IBM NO. W1/18/17031)	4,62,030
	Total	24,06,40,048
Division no. 3		
1	Aug. & replacement of existing old & defective/burnt LT OCBs with new LT ACB at 11KV I/D S/Stn.Sector 37-A, Chandigarh under Elec (OP) S/Divn.no.3, Chandigarh	1,45,361
2	RCE for S/E, commissioning & testing of L.T. capacitor (Gas filled) confirming to IS standard for installation Secondary side of T/F under Elec (OP) S/D No.6, Chandigarh.	69,378
3	Providing 4x315 KVA P/M S/Stn. in Sec.46 A,B,C & D to deloading the I/D T/F in 11 KV I/D S/Stn. Sec.46 A,B, C & D Chd.	24,80,274
4	Rough Cost Estimate for providing 3x315 KVA P/M T/Fs near house no. 257 backside Sector 37 A , House No. 1411 Sector 37 B and near booth no. 115, Sector 37C for improvement of LD System under the control of Electy. OP Sub Division No. 7, Sector 35 B Chandigarh.	15,15,138
5	Providing 4x315 KVA P/M S/Stn near # 1375, 1425, Sec-34C and #1529, 1874, Sec-34D for improvement of system under S/Divn No. 7, Chd (W1/2018/16542)	19,08,886

PROJECT DETAIL		
Sr. No.	Scheme Name	FY 2019-20 (Actual) in Rs.
1	2	3
6	Replacement of obsolete portion of 11 KV 3x185mmsq. XLPE / Pilca cable link of 11KV sec.36-C feeder emanating from 66KV G/S/Stn. Sec.52& various 11KV pilca cables links laid in sec.36 with 300mm sq. 11KV XLPE cable from improvement of LD system under Electy.OP S/Div.no.7,Sec.35-B,Chd.	24,96,971
7	Replacement of the 11KV O/H line ACSR conductor of 11 KV 21A feeder from 33 KV G/S/StnSec-34 & 11 KV 21A feeder from 33 KV G/S/Stn sec-18 with 11KV 3x300 mm sq. U/G XLPE cable for improvement of LD system under Electy. 'OP' S/Divn No. 3, Chd (W1/2018/16329)	14,26,548
8	Est.for providing 6x315 KVA P/M T/F at various sites in sector 21-A, 21B & 21C, Chandigarsh alongwith augumentation of HT/LT conductor for improvement of L.D. System.	26,89,626
9	RCE for providing 4x315 kVA P/M T/F near House No.23, 176 & 260, Sector 33-A and House No.609, Sec.33-B, Chd. for improvement of LD System of S/D OP7.	18,83,016
10	RCE for replacement and aug. of existing 11KV 3x185mm2 Pilca cable/11KV 3x150mm2 cable with 11KV 3x3mm3 XLPE cable in sector 21, Chandigarh.	1,37,913
11	RCE for S/E, commissioning & testing of L.T. capacitor (Gas filled) confirming to IS standard for installation Secondary side of T/F under Eley (OP) S/D No.3, Chd.	2,56,155
12	Rough cost estimates for replacement of condemned SKY LIFT Vehicle No. CH01-G1-0891 with new SKY LIFT of equivalent capacity under Electricity 'OP' S/Divn No. 7, Chd.	9,04,000
13	Providing 11 KV U/G independent feeder from 66 KV grid sub station Sector 34 to 11 KV I/D S/Stn., Sector 35-B, Chandigarh and further extending the same upto parts of Sector 35 A & B along with installation of 2 nos. 315 KVA P/M T/Fs for overall improvement of LD system under the jurisdiction of Eelcty. OP Sub divn. No.7, Sector 35, Chandigarh.	4,21,744
14	RCE for replacement of existing LT (Jungli) fuse unit with LT ACB of 300/315 KVA P/M T/F under the jurisdiction of Electy. 'OP' S/Divn. No.6, U.T., Chandigarh. (IBM No. W1/16/15083)	5,86,080
15	Release of 310 Nos. GSC under Electy. 'OP' S/Divn No. 3 for the year 2019-20	3,85,300
16	Release of 496 Nos. GSC connections under Electy. 'OP' S/Divn No. 6 for the year 2019-20	8,51,832
17	Release of 250 Nos. GSC connections under Electy. 'OP' S/Divn No. 7 for the year 2019-20	8,41,470
	Total	1,89,99,692
Division no. 4		
1	Providing individual electricity connection to the residents outside Lal Dora of Kuldeep Colony Village Kajheri.	2,97,164
2	Providing additional 315 KVA P/M F/F near #2137 in karsan Colony Sec.52D, Chd. for improvement of LD System	12,97,181
3	Providing 4x315 KVA T/Fs for the improvement of LD System in Burail under the Jurisdiction of Electy. Op Sub Divn. NO.9, Sec.43,Chd.	26,75,380

PROJECT DETAIL		
Sr. No.	Scheme Name	FY 2019-20 (Actual) in Rs.
1	2	3
4	G.S.C. OP-9	21,53,827
5	G.S.C. OP-10	5,72,471
6	Providing 630 KVA compact sub station at Khara Khoo in village Burail for the improvement of LD system under Elecyp Op S/Din. No 9,Chandigarh.	26,62,448
7	Providing 315 KVA Pole Mounted Transformer in for release of electricity connections of newly constructed Type V houses at IMTECH Sec.39, Chd. under Elecyp. OP S/Divn.No.10, Sec.40, Chd.	4,21,744
8	Providing 4x315 KVA P/M T/Fs in Sector 43-A&B for Improvement of LD system by deloading I/D S/Stns as well as P/M T/Fs	22,22,407
9	Replacement of 500 KVA P/M T/F with 2x315 KVA T/F near Govt. School in Sector 39-C,Chandigarh.	8,64,714
10	Prov. Addl. 2x315KVa P/M T/F near # 274, Sec-55 & near Mandir Village - Palsora, CHD	1,71,568
11	RCE for pruchase of One No. LCV cabin chassis vehicle having 3250mm wheel base chassis fitted day cabin BS4 diesel engine with single cabin and supply and making of skylift with 10mtr, working height on the cabin chasis under elecyp. (OP) S/Divn. No. 9, Chd.	9,04,000
12	Providing additional 1x315 KVA P/M T/F near #149 Sector 42 and augmentation of existing 2 nos. 100 KVA P/M T/F with 315 KVA P/M T/F at Lake sector 42 and near kids and kids school Sector 42-C,Chandigarh. for improvement of LD system under Elecyp. Op S/Divn. No. 9,U.T Chandigarh	14,30,762
13	Rough cost estimate for providing 11 KV additional feeder to Sector 43 from 66 KV Grid S/Stn. Sector- 34 Chandigarh	13,26,334
14	Providing 02 No.66 KV circuits from 220 KV grid sub station, Hallomajra, Chandigarh to be terminated at existing 66 KV tower No.07 located near railway crossing bridge, Indl. Area, Phase-II for feeding 66 KV grid sub-station, I/A phase-I and 66 KV grid sub-station, I/A, Phase-II, UT.,Chandigarh.	1,13,09,063
15	Up gradation of existing 33 KV sub station to 66 KV Voltage level by providing 1x30MVA, 66/11 KV Power Transformer alongwith Associated Transmission line in Sector 34-C, Chandigarh.	23,47,701
	Total	3,06,56,764
	Grand Total	32,52,96,504

Form 5A: Capital Expenditure 2020-21 (First 6 months)

CAPITAL EXPENDITURE INCURRED				(FY 2020-21 upto Sept, 2020)			
Investment Schemes - Monitoring Format (to be followed on Quarterly Basis)							
Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
Division no. 1							
1	TENDOR NO. OP1/38/19-2020 RCE FOR PROVIND 1*100 KVA P/M T/F NEAR KALI MATA MANDIR FOR T/WELL DELOADING TO EXISTING 300 KVA T/F AMBEDKAR COLONY ON AMAN COLONY DHANAS (IMB NO. W1/2019/17750)	IMPROVEMENT OF LD SYSTEM	0.03	724	2,88,677	-	2,89,401
2	AUG. OF 100 KVA P/M T/F TO 315 KVA P/M S/STN TO RELEASE THE ELECTY CONNECTION TO NEWLY CONSTRUCTED GOVT. M. HIGH SCHOOL SEC-12, CHD (IBM NO W1/2019/17844)	IMPROVEMENT OF LD SYSTEM	0.06	4,31,512	1,78,700	1,200	6,11,412
3	TENDER NO. OP1/39/2019-20 OPENED ON DATED 21..11.2019 FOR PROVIDING 100 KVA P/M S/STN. RELEASE THE ELECTRICITY CONNECTION TO GOVT. T/WELL NO. 14 FOR IRRIGATION WATER AT VILLAGE KAIMBWALA UNDER ELECTY. OP S/DIVN. NO. 2 SECTOR 10 CHD.	IMPROVEMENT OF LD SYSTEM	0.05	1,45,151	3,45,358	-	4,90,509
4	TENDER NO. OP-1/34/2019-20 OPENED ON DATED 18-09-19 FOR SUPPLY, FABRICATION AND INSTALLATION OF 1 NO. BOOM TYPE SKY LIFT SUITABLE FOR SAFE WORKING HEIGHT OF 10 MTS. AND OUT REACH OF 3.5 MTS., WITH SAFE WORKING LOAD OF 250 KGS, COMPLETE AS PER DETAILS SPECIFICATION FOR THE MTC. OF POWER SYSTEM AND THE STREET LIGHT UNDER ELECTY. 'OP' S/DIVN. NO. 4 SEC-15, CHD.	IMPROVEMENT OF LD SYSTEM	0.20	14,80,780	-	7,700	14,88,480
5	OP-1/37/2019-20 FOR REPLACEMENT OF OLD AND OUTLIVED MAIN AND SUB MAIN SERVICE WIRE IN VILLAGE KHUDDA JASSU, CHANDIGARH	IMPROVEMENT OF LD SYSTEM	0.09	-	-	9,72,869	9,72,869

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
6	OP-1/36/2019-20 FOR REPLACEMENT OF OLD AND OUTLIVED MAIN AND SUB MAIN SERVICE WIRE IN VILLAGE KHUDDA LAHORA, CHANDIGARH	IMPROVEMENT OF LD SYSTEM	0.14	-	-	14,55,574	14,55,574
7	TENDER OP.1/21/19-20 REC FOR PROVING 1*315 KVA P/M T/F NEAR TOILET BLOCK NO.2 KHUDA LAHORA TO DELOADING EXISTING 1*315KVA T/F (IBM NO. W1/2019/17743)	IMPROVEMENT OF LD SYSTEM	0.12	4,31,781	-	6,85,074	11,16,855
8	Repl of 315 *3 & 1000 KVA *1 in sub divn no.4, Chd IBM W1/2017/1631 dt 25.01.17	IMPROVEMENT OF LD SYSTEM	0.21	11,52,750	-	11,15,737	22,68,487
9	CAPITAL OVER HAULING OF 1 NO. 66/11KV 10/12.5 MVA, T-2 POWER T/F AT 66KV GRID S/STN SECTOR-12 CHANDIGARH	IMPROVEMENT OF LD SYSTEM	0.18	-	-	5,16,980	5,16,980
10	Repl of 315 *3 & 1000 KVA *1 in sub divn no.1, Chd	IMPROVEMENT OF LD SYSTEM	0.21	11,89,244	-	11,15,737	23,04,981
11	PROVIDING 4*315 KVA P/M T/Fs NEAR SPORTS COMPLEX, SEC-7B, SAMPARK CENTRE, SEC-7B, BACKSIDE SCO-23, SEC-7C & BACKSIDE SCO-38, SEC-7C FOR THE IMPROVEMENT OF LD SYSTEM UNDER THE JURISDICTION OF ELECY. 'OP' SUB DIVN. NO. 2, U.T. CHANDIGRH.	IMPROVEMENT OF LD SYSTEM	0.32	20,41,810	-	10,43,397	30,85,207
12	Repl of 11 KV cable sect 9 & 10 (road cut) same as serial no. 10 & 30	IMPROVEMENT OF LD SYSTEM	0.55	7,23,582	-	-	7,23,582
13	Replacement of bare conductor with Aerial bunched cables of outlived pole and services to prevent fatal/non fatal accidents/pilferage of power in village Sarangpur under s/d 4	IMPROVEMENT OF LD SYSTEM	0.33	54,91,051	-	-	54,91,051
14	Tender No. OP1/07/18-19 -- RCE for repair/renovation I/D S/STN building under sdo electy op s/div, no, 4 sec 16 17 chd (in sec 15A, B, C & D, sector 16 B & D sector 17 PSIDC shopping center police colony rcc mandikaran road)	IMPROVEMENT OF LD SYSTEM	0.14	62,85,163	-	-	62,85,163

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
15	Repl. Of defective/ outlived 11KV 3x185 Pilca cable with 3*315mm2 XLPE cable between link at I/D S/stn. Sector 15 to I/DS/SM 16 Dand I/OS/SH/ED to GMSH Sec 16 Chd. IBM Scheme No.W1/18/16533 ----- A&A mp/1665	IMPROVEMENT OF LD SYSTEM	1.00	24,27,216	2,67,862	-	26,95,078
16	TENDER NO. OP1/17/18-19 ---- EOI for shifting shortlisting of makes for the items/ products to be used in the work of conversion of existing HT/LT lines into U/G system & replc. / aug. of equipments of 11KV I/D S/Stn. & street Light system in Sec 8, UT Chd.	IMPROVEMENT OF LD SYSTEM	-	10,301	-	-	10,301
17	Tender No.OP1/46/18-19 --- Prov. 03 nos. 315KVA P/M S/Stn. near #424, Sec 23B (T-I) near #1181, Sec 23B (T-II) & near #1580, Sec 23B (T-III) to given relief to the LT O/G to #1482, Sec 23B, LT O/G to #1525 Sec 23B to deload 02 nos. I/D T/F 1000KVA & 800KVA at 11KV I/D S/Stn. Sector 23B, chd.	IMPROVEMENT OF LD SYSTEM	0.26	17,76,951	-	3,10,516	20,87,467
18	REPLACEMENT OF AUGMENTATION OF 11KV PILCA CABLE WITH 11KV XLPE CABLE IN REC 22,23,24, UNDER SDO ELECTY 'OP' S/DIVN NO. 1 SEC-23 CHD IBM SCHEME NO. W1/2018/16406	IMPROVEMENT OF LD SYSTEM	0.15	13,76,225	-	-	13,76,225
19	TENDOR OP1-58/2019-20ROUGH COST ESTIMATE FOR PROVIDING 11KV INDEPENDENT UNDERGROUND FEEDER FROM FORTHCOMING 66KV SECTOR-34 I/D S/Stn. SECTOR 24-C, TO PROVIDE UNINTERRUPTED POWER SUPPLY TO JUDGES HOUSES OF SECTOR 24 AND TO RESIDENTS OF SECTOR 23, CHANDIGARH, (IBM SCHEME NO. W1/2019/18065)	IMPROVEMENT OF LD SYSTEM	1.05	57,67,488	-	-	57,67,488
20	REC FOR PROVING 3*315 KVA P/M T/F NEAR GATE NO.1, GATE NO.2 AND E.1-19 PU SEC-14 TO DELOADING THE EXISTING LD SYSTEM UNDER ELECTY OP S/DIVN-4 SEC-15 .CHD (IBM NO. W1/2019/17751)	IMPROVEMENT OF LD SYSTEM	0.25	336	7,01,592	2,80,814	9,82,742

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
21	DNIT FOR STRENGTHENING OF DISTRIBUTION SYSTEM BY PROVIDING 5 NOS 315 KVA T/F P/M S/STN FOR UNINTERRUPTED POWER SUPPLY TO THE RESIDENTS OF REHABILITATION COLONY SEC-25 CHD	IMPROVEMENT OF LD SYSTEM	1.47	23,13,948	-	-	23,13,948
22	PROVIDING LT ACB AS WELL AS LT SHUNT CAPACITOR ON 300/315 KVA P/M T/F UNDER THE JURISDICTION OF ELECTY OP S/DIVN-4, SEC-15, CHD. (IBM NO. W1/2019/18117)	IMPROVEMENT OF LD SYSTEM	0.33	3,41,880	-	-	3,41,880
23	RCE FOR AUGMENTATION OF 4*200 KVA TO 4*315 KVA T/F NEAR OM SHANTI MILK COLONY DHANAS NEAR H.NO 190 AND DOUBLE STOREY HOUSE DHANAS, CHANDIGARH FOR IMPROVEMENT OF LD SYSTEM (IBM NO. W1/2019/18098)	IMPROVEMENT OF LD SYSTEM	0.22	314	-	-	314
Total			7.32	3,33,88,207	17,82,189	75,05,598	4,26,75,994
Division no. 2							
1	Rough Cost Estimate for providing 9 Nos. Desktop & Monitor, Printer and Multi function Machine under the Executive Engineer, Electy OP Divn No. 2 U.T., Chandigarh.	4801(PLAN)	0.11	-	4,20,686	-	4,20,686
2	Providing GSC OP 5	4801(PLAN)	0.38	-	-	6,40,155	6,40,155
3	Providing GSC OP 8	4801(PLAN)	0.41	-	83,290	3,58,484	4,41,774
4	Appointment of Project Management agency for Twerky Execution including Supply Erection commission project Management. Design, engineering, inspection for Smart Grid Project under Electricity S/Divn NO. 5 Chandigarh.	4801(PLAN)	0.36	22,13,31,029	-	25,24,056	22,38,55,085
5	REC for Electrification of outside Lal Dora for release of individual connection to the residents of Deep Complex in village Hallomajra under the jurisdiction of SDO Eelec. Op S.Divn. No. 5, Chandigarh. (IBM No. W1/16/15016)	4801(PLAN)	0.62	44,26,819	-	-	44,26,819

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
6	RCE for providing 11 KV independent U/G feeder to Mauli Complex Manimajra from 66 KV Grid Sub Station Manimajra, UT Chandigarh for making the alternative source of 11 KV supply alongwith 11 KV Ring main under the jurisdiction Electy. OP S/Divn. No.8, Manimajra UT Chd. (DRG-657) (IBM No. W1/18/17001)	4801(PLAN)	0.49	42,19,940	-	5,08,912	47,28,852
7	Estimate for arranging spare T/F of 315 KVA distribution T/Fs (3Nos) and 1000 KVA T/F (1No) for replacement against damaged T/F for restoration of supply on emergent basis, under Electy OP S/Divn No 8 MM Chd (IBM No. W1/17/15247).	4801(PLAN)	0.21	12,27,238	-	11,15,737	23,42,975
8	Providing 315 KVA P/M T/F and Replacement of existing Old/outliner/Brunt ACSR with 103mm2 in Vill Behlana under OP S/Divn No 5 I/A PH I Chandigarh (IBM No. W1/2018/16897)	4801(PLAN)	0.14	6,71,354	-	-	6,71,354
9	RCE for Providing 2X315 KVA P/M T/F & Repair of existing Old/Burnt ACSR with 103mm2 in Village Hallo Majra Chandigarh	4801(PLAN)	0.25	15,33,139	-	-	15,33,139
10	Providing 2X315 KVA P/M T/Fs near H.No. 1698 and 2570 M/Complex MM Chd for deloading the existing 3X300 KVA P/M T/Fs Near H. No. 1257 Opp. Community Centre and H.No. 2540, Mauli Complex M.M Chandigarh under Electy OP S/Divn No. 8 MM Chd. (IBM Scheme No. W1/18/16429)	4801(PLAN)	0.15	8,43,488	-	-	8,43,488
11	Providing 315 KVA P/M T/F Near H.No. 1052 Morigate for deloading the existing 300 KVA P/M T/F near children park Govindpura MM under the jurisdiction of Electy OP S/Divn No. 8 MM Chd. IBM Scheme No. W1/18/17004)	4801(PLAN)	0.13	8,00,480	-	-	8,00,480

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
12	Estimate for supply of 1 No. SKY Lift fitted on LCV for the maintenance of power supply and street light under SDO Electy OP S/Divn. No.5, UT Chandigarh (IBM NO. G1/2018/16774)	4801(PLAN)	0.23	-	9,31,121	-	9,31,121
13	Estimate for arranging spare T/F of 315 KVA distribution T/Fs (3Nos) and 1000 KVA T/F (1No) for replacement against damaged T/F for restoration of supply on emergent basis, under Electy OP S/Divn No 5 MM Chd	4801(PLAN)	0.21	11,51,250	-	11,15,737	22,66,987
14	Permission of Road cut for shifting of 300 KVA T/F in front of shop no 35 Old Ropar to near H No. 422 Dehra Sahib Gurudwara, Manimajra	4801(PLAN)	0.16	-	-	3,06,488	3,06,488
15	Estimate for supply of 1 No. SKY Lift fitted on LCV for the maintenance of power supply and street light under SDO Electy OP S/Divn. No.8 Manimajra Chandigarh. (IBM NO. G1/2017/16151)	4801(PLAN)	0.23	-	9,31,121	-	9,31,121
16	Providing additional 315 KVA T/F near shad cabin type S/Stn Mansa Devi road MM. for deloading the existing 500 KVA T/F in side cabin Type S/Stn at Mansa Devi Road MM Chd (IBM NO. W1/16/15191).	4801(PLAN)	0.07	4,91,583	-	-	4,91,583
17	Rough Cost Estimate for renovation of 36 Nos. type-3 houses Sector 28 Chandigarh (House No. 1001-1012B, Electricity Colony). IBM Scheme No. W4/2018/17076.	4801(PLAN)	-	1,19,31,732	-	-	1,19,31,732
18	Rough Cost Estimate for renovation of house No. 1141-1146A, B=18 Houses and House No. 1147-1150A, B=12 House Sector 28, Type-2 Houses Chandigarh, Electricity Colony). IBM Scheme No. W4/2018/17064.	4801(PLAN)	-	85,08,934	-	-	85,08,934
19	Rough Cost Estimate for renovation of House No 10 to 21 (Type I) (12) & House No. 2 to 9 Type II (8) in Ind. Area Ph-II Chandigarh (in Electiricty Sub Station) (Scheme No. W4/18/16841)	4801(PLAN)	-	1,16,14,000	-	-	1,16,14,000

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
20	Rough Cost Estimate for Special Repair of 116 Nos. Type 13 JE (Double Stories) Houses in Sector 28, Electricity Colony, Chandigarh H.No 1083 to 1140A (IBM No W1/18/16637)	4801(PLAN)	-	11,54,944	-	-	11,54,944
21	Rough Cost Estimate for Special Repair of 100 Nos. Type 12 D.S.F Houses in Sector 28, Electricity Colony, Chandigarh H.No 1017 to 1060A, 1077 to 1082A (IBM No. W4/18/16705)	4801(PLAN)	-	28,35,053	-	-	28,35,053
22	Rough Cost Estimate for renovation of 4 Nos. Type-9 houses in Electricity Colony, Sector – 28-B, Chandigarh. (H.NO. 1192, 1194, 1196, 1198) (IBM Scheme No. W1/2019/17660).	4801(PLAN)	-	4,20,16,630	-	-	4,20,16,630
23	Rough Cost Estimate for renovation of 8 Nos. Type-IV houses in Electricity Colony, Sector – 28-B, Chandigarh. (H.NO. 1188 to 1191-A) (IBM Scheme No. W1/2019/17661).	4801(PLAN)	-	40,56,230	-	-	40,56,230
24	Rough Cost Estimate for renovation/repair of Grid Sub Station cum Sub Division office, Sector 31-C, Chandigarh (IBM Scheme No. W1/2019/17659).	4801(PLAN)	-	20,04,630	-	-	20,04,630
25	Rough Cost Estimate regarding setting up of Data SCADA Centre under Smart Grid Project inblock depot and stationery store building Madhya Marg Sector 18 Chandigarh.	4801(PLAN)	-	2,15,89,000	-	-	2,15,89,000
26	Rough Cost estimate for renovation of Type IV Houses in Electricity Colony Sector 52 Chandigarh (IBM Scheme No. W4/2019/17603)	4801(PLAN)	-	83,49,260	-	-	83,49,260
27	Replacement of Bar conductor with 11 KV 3x300mm2 XLPE U/G Cable to remove the encumbrance from the 66 KV G/S/STN. Manimajra.	4801(PLAN)	-	7,22,062	-	-	7,22,062

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
28	Providing additional 2X315 KVA P/M T/F near railway line Gali no. 5 and near Gali No. 1, Pipli wala town, MM U.T., Chandigarh for deloading existing 2X300 KVA T/F near Gudu Wala Nagpal Chakki Pipali wala town MM Chandigarh (IBM Scheme W1/17/15802)	4801(PLAN)	0.14	9,52,688	-	-	9,52,688
29	Providing 315 KVA P/M T/F near Govt T/Well Vill Mauli Jagran, for deloading the existing 500 KVA P/M T/F Near Govt T/Well Vill Mauli Sagram under the jurisdiction of Electy OP S/Divn No 8 MM Chd (IBM NO. W1/18/17031)	4801(PLAN)	0.07	4,62,030	-	-	4,62,030
Total			4.36	35,28,93,513	23,66,218	65,69,569	36,11,07,238
Division no. 3							
1	Rough Cost Estimate for providing 3x315 KVA P/M T/Fs near house no. 257 backside Sector 37 A , House No. 1411 Sector 37 B and near booth no. 115, Sector 37C for improvement of LD System under the control of Electy. OP Sub Division No. 7, Sector 35 B Chandigarh.	4801 Plan	0.23	15,15,138	-	7,34,507	22,49,645
2	Providing 4x315 KVA P/M S/Stn near # 1375, 1425, Sec-34C and #1529, 1874, Sec-34D for improvement of system under S/Divn No. 7, Chd (W1/2018/16542)	4801 Plan	0.34	19,08,886	11,37,039	-	
3	Replacement of obsolete portion of 11 KV 3x185mmsq. XLPE / Pilca cable link of 11KV sec.36-C feeder emanating from 66KV G/S/Stn. Sec.52& various 11KV pilca cables links laid in sec.36 with 300mm sq. 11KV XLPE cable from improvement of LD system under Electy.OP S/Div.no.7,Sec.35-B,Chd.	4801 Plan	0.26	24,96,971	3,01,111	-	

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
4	Replacement of the 11KV O/H line ACSR conductor of 11 KV 21A feeder from 33 KV G/S/StnSec-34 & 11 KV 21A feeder from 33 KV G/S/Stn sec-18 with 11KV 3x300 mm sq. U/G XLPE cable for improvement of LD system under Electy. 'OP' S/Divn No. 3, Chd (W1/2018/16329)	4801 Plan	0.13	14,26,548	-	2,22,542	
5	Est.for providing 6x315 KVA P/M T/F at various sites in sector 21-A, 21B & 21C, Chandigarh alongwith augumentation of HT/LT conductor for improvement of L.D. System.	4801 Plan	0.48	32,04,370	-	8,09,872	
6	RCE for providing 4x315 kVA P/M T/F near House No.23, 176 & 260, Sector 33-A and House No.609, Sec.33-B, Chd. for improvement of LD System of S/D OP7.	4801 Plan	0.38	18,83,016	-	-	
7	Release of 310 Nos. GSC under Electy. 'OP' S/Divn No. 3 for the year 2020-21	4801 Plan	-	-	-	8,29,486	
8	Release of 500 Nos. Electricity Connection under Electy. 'OP' S/Divn No. 6 for the year 2020-21	4801 Plan	-	-	-	92,000	
9	Release of 230 Nos. Electricity Connection under Electy. 'OP' S/Divn No. 7 for the year 2020-21	4801 Plan	-	-	-	1,94,650	
10	Providing 3x315 KVA P/M T/F near House No. 3004 and 3070 Sector 28-D,Chandigarh and backside of I/D S/stn. sector 28-C for deloading existing T/Fs at 11 KV I/D S/Stn. Sector 28-C & D Chandigarh under Elecyp Op S/Divn. No. 3,Sector 18, Chandigarh.	4801 Plan	0.25	21,98,724	-	-	
11	Providing new 2x315 KVA P/M T/F near House No. 2407 and 2647 sector 19-C and augmentation of Sector 19-D Chandigarh.for deloading existing 11 KV I/D/Stn. Sector 19-C & 19-D Chandigarh under Electricity under Elecyp Op S./Stn.No.3,Sector 18,Chandigarh.	4801 Plan	0.23	19,99,774	-	-	

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
12	RCE for replacement and aug. of existing 11KV 3x185mm ² Pilca cable/11KV 3x150mm ² cable with 11KV 3x3mm ³ XLPE cable in sector 21, Chandigarh.	4801 Plan	0.19	14,41,954	-	72,376	
13	RCE for S/E, commissioning & testing of L.T. capacitor (Gas filled) conforming to IS standard for installation Secondary side of T/F under Eley (OP) S/D No.3, Chd.	4801 Plan	0.06	9,65,101	-	-	
14	RCE for replacement of existing LT (Jungle)fuse unit weith LT ACB of 300/315KVA P/M T/F under the jurisdiction of Eley (OP) S/Divn.No.3, CHD	4801 Plan	0.30	5,31,776	-	-	
15	Est. for providing spare 3x315KVA and 1 no.1000KVA P/M T/F under (OP) S/Divn.No.7,Chandigarh	4801 Plan	0.21	7,67,500	-	11,15,737	
16	Est. for providing spare 3x315KVA and 1 no.1000KVA P/M T/F for replacement against damage T/F for restoration of supply on emergent basis under (OP) S/Divn.No.3,Chd.	4801 Plan	0.21	3,83,750	-	11,15,737	
17	Est. for providing spare 3x315KVA and 1 no.1000KVA P/M T/F for replacement against damage T/F under (OP) S/Divn.No.6,Chd.	4801 Plan	0.21	7,67,500	-	11,15,737	
18	RCE for the repair/Renovation I/D S/Stn Building under SDO, Eley (OP)S/D no.7, Chandigarh(Sector 37A & 37-B)	4801 Plan	-	13,27,000	-	-	13,27,000
19	RCE for the repair/Renovation I/D S/Stn Building under SDO, Eley (OP)S/D no.6, Chandigarh(Sector 32-C))	4801 Plan	-	8,55,400	-	-	8,55,400
20	RCE for the repair/Renovation I/D S/Stn Building under SDO, Eley (OP)S/D no.3, Chandigarh(Sector 19-D)	4801 Plan	-	9,21,400	-	-	9,21,400
21	RCE for the repair/Renovation I/D S/Stn Building under SDO, Eley (OP)S/D no.7, Chandigarh(Sector 34C & 34D))	4801 Plan	-	7,81,000	-	-	7,81,000
22	RCE for the repair/Renovation I/D S/Stn Building under SDO, Eley (OP)S/D no.6, Chandigarh(Sector 20-D)	4801 Plan	-	8,15,800	-	-	8,15,800
23	RCE for the repair/Renovation I/D S/Stn Building under SDO, Eley (OP)S/D no.7, Chandigarh(Sector 36-C)	4801 Plan	-	7,45,700	-	-	7,45,700

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
24	RCE for the repair/Renovation I/D S/Stn Building under SDO, Elec (OP)S/D no.6, Chandigarh(Sector 30A, 30B, 46A,B & C))	4801 Plan	-	44,30,600	-	-	44,30,600
25	RCE for the repair/Renovation I/D S/Stn Building under SDO, Elec (OP)S/D no.3, Chandigarh(Sector 18B, C & D, 19-A & C, 21-C,28-B, C & D))	4801 Plan	-	78,00,000	-	-	78,00,000
26	RCE for the repair/Renovation I/D S/Stn Building under SDO, Elec (OP)S/D no.6, Chandigarh(Sector 46-D)	4801 Plan	-	5,26,900	-	-	5,26,900
27	RCE for the repair/Renovation I/D S/Stn Building under SDO, Elec (OP)S/D no.7, Chandigarh(Sector 33A & B, 35-B, C & D, 36B & D, 37C & D))	4801 Plan	-	90,43,600	-	-	90,43,600
28	Rough Cost Estimate for I/D S/stn Building under SDO Elec. 1. (OP)S/Divn.no.3, Chandigarh-18/A, Chandigarh (Sec 21-A) 2. (OP)S/Divn.no.3, Chandigarh-18/A, Chandigarh (Sec 27-C stone masonry). 3. (OP)S/Divn.no.3, Chandigarh-18/A, Chandigarh (Sec 27-D) 4. (OP)S/Divn.no.3, Chandigarh-18/A, Chandigarh (Sec 20/A & 20/B) 5. (OP)S/Divn.no.3, Chandigarh-18/A, Chandigarh (Sec 19/B) 6. (OP)S/Divn.no.7, Chandigarh-35/B, Chandigarh (Sec 34/A)(Picadilly, Mukat Gurudwara) (W1/2019/17662).	4801 Plan	-	46,08,488	-	-	46,08,488
29	Rough cost estimates for replacement of condemned SKY LIFT Vehicle No. CH01-G1-0891 with new SKY LIFT of equivalent capacity under Electricity 'OP' S/Divn No. 7, Chd.	4801 Plan	-	9,04,000	2,500	23,081	9,29,581

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
30	Providing 11 KV U/G independent feeder from 66 KV grid sub station Sector 34 to 11 KV I/D S/Stn., Sector 35-B, Chandigarh and further extending the same upto parts of Sector 35 A & B along with installation of 2 nos. 315 KVA P/M T/Fs for overall improvement of LD system under the jurisdiction of Eelcty. OP Sub divn. No.7, Sector 35, Chandigarh.	4801 Plan	0.65	4,21,744	-	-	4,21,744
31	RCE for replacement of existing LT (Jungli) fuse unit with LT ACB of 300/315 KVA P/M T/F under the jurisdiction of Electy. 'OP' S/Divn. No.6, U.T., Chandigarh. (IBM No. W1/16/15083)	4801 Plan	0.47	5,86,080	-	-	5,86,080
32	Release of 310 Nos. GSC under Electy. 'OP' S/Divn No. 3 for the year 2019-20	4801 Plan	0.39	3,85,300	-	-	
33	Release of 496 Nos. GSC connections under Electy. 'OP' S/Divn No. 6 for the year 2019-20	4801 Plan	0.35	8,51,832	-	-	8,51,832
34	Release of 250 Nos. GSC connections under Electy. 'OP' S/Divn No. 7 for the year 2019-20	4801 Plan	0.20	8,41,470	-	-	8,41,470
Total			5.54	5,73,37,322	14,40,650	63,25,725	3,77,36,240
Division no. 4							
1	Providing 630 KVA compact sub station at Khara Khoo in village Burail for the improvement of LD system under Eley Op S/Din. No 9,Chandigarh.	Development of the areas	0.31	28,89,494	-	8,16,500	37,05,994
2	Providing 315 KVA Pole Mounted Transformer in for release of electricity connections of newly constructed Type V houses at IMTECH Sec.39, Chd. under Electy. OP S/Divn.No.10, Sec.40, Chd.	Development of the areas	0.08	5,11,192	-	2,10,351	7,21,543
3	Prov. 11KV Ind. U/G to Sector - 38 (West) for Pocket-A from 66KV Grid S/Stn; Sector-56, Chd.	Development of the areas	0.34	-	-	5,07,696	5,07,696
4	REC for purchase of spare 315KVA T/F distribution (3Nos.) and 1000KVA T/F distribution (1No.) S/Divn.No. 9, Sector-43, Chandigarh.	Development of the areas	0.21	-	-	11,15,737	11,15,737

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
5	REC for purchase of spare 315KVA T/F distribution (3Nos.) and 1000KVA T/F distribution (1No.) S/Divn.No. 10, Sector-40, Chandigarh.	Development of the areas	0.21	7,67,500	-	11,15,737	18,83,237
6	Providing 4x315 KVA P/M T/Fs in Sector 43-A&B for Improvement of LD system by deloading I/D S/Stns as well as P/M T/Fs	Development of the areas	0.31	22,22,407	-	8,18,329	30,40,736
7	Replacement of 500 KVA P/M T/F with 2x315 KVA T/F near Govt. School in Sector 39-C, Chandigarh.	Development of the areas	0.11	8,64,714	-	2,43,275	11,07,989
8	G.S.C. OP-9	Development of the areas	-	-	-	2,14,624	2,14,624
9	G.S.C. OP-10	Development of the areas	-	-	-	2,89,875	2,89,875
10	Rough Est. for Renovation of 116 Nos. Type - 13 JE Double Storeyed Housed in Elect. Colony in Sector - 28, Chandigarh (H. No. 1083 to 1140-A)	Development of the areas	3.56	3,55,66,437	-	-	3,55,66,437
11	Prov. Double Circuit 66KV U/G Transmission line by laying single core 1000Sq. Mm XLPE Cable from existing 66KV Tower Near Govt. School (New), Sec-12 to the 66KV G/S/Stn, Sarangpur (New), Chandigarh alongwith construction of 2nos. 66KV Line Bays at 66KV S/Stn, Village-Sarangpur Turnkey execution of 02 No. line Bags at 66/11 KV Grid substation village Sarangpur, UT, Chandigarh.	Development of the areas	6.53	79,60,500	-	-	79,60,500
12	Prov. 66KV Transmission Line to upcoming 66KV G/S/Stn alongwith associate 66KV Line Bays at Raipure Kalan, CHD.	Development of the areas	0.91	15,63,713	-	-	15,63,713
13	Prov. Addl. 2x315KV P/M T/F near # 274, Sec-55 & near Mandir Village - Palsora, CHD	Development of the areas	0.19	6,93,022	-	-	6,93,022

Sr. No.	PROJECT DETAIL			Expenditure in the scheme prior to 31.03.20 (Rs. in Crore)	1st Quarter (01.04.20 to 30.06.20)	2nd Quarter (01.07.20 to 30.09.20)	Total
	Scheme Name	Object of Scheme	Approved Scheme cost, cost (Rs. in Crore)				
14	RCE for purchase of One No. LCV cabin chassis vehicle having 3250mm wheel base chassis fitted day cabin BS4 diesel engine with single cabin and supply and making of skylift with 10mtr, working height on the cabin chasis under electy. (OP) S/Divn. No. 9, Chd.	Development of the areas	0.22	9,04,000	-	-	9,04,000
15	Providing additional 1x315 KVA P/M T/F near #149 Sector 42 and augmentation of existing 2 nos. 100 KVA P/M T/F with 315 KVA P/M T/F at Lake sector 42 and near kids and kids school Sector 42-C, Chandigarh. for improvement of LD system under Elec. Op S/Divn. No. 9, U.T Chandigarh	Development of the areas	0.19	14,30,762	-	-	14,30,762
16	Rough cost estimate for providing 11 KV additional feeder to Sector 43 from 66 KV Grid S/Stn. Sector- 34 Chandigarh	Development of the areas	0.33	13,26,334	-	-	13,26,334
17	Providing 02 No.66 KV circuits from 220 KV grid sub station, Hallomajra, Chandigarh to be terminated at existing 66 KV tower No.07 located near railway crossing bridge, Indl. Area, Phase-II for feeding 66 KV grid sub-station, I/A phase-I and 66 KV grid sub-station, I/A, Phase-II, UT., Chandigarh.	Development of the areas	1.94	1,13,09,063	-	-	1,13,09,063
18	Up gradation of existing 33 KV sub station to 66 KV Voltage level by providing 1x30MVA, 66/11 KV Power Transformer alongwith Associated Transmission line in Sector 34-C, Chandigarh.	Development of the areas	7.22	23,47,701	-	-	23,47,701
Total			22.65	7,03,56,839	-	53,32,124	7,56,88,963
Grand Total			39.86	51,39,75,881	55,89,057	2,57,33,016	51,72,08,435

Form 6: Capital Base and Return

Rs. Crore

Sr. No.	Particulars	FY 2019-20	FY 2020-21	FY 2021-22
		Actual	Estimated	Projected
1	Opening Normative Equity	135.69	137.33	138.83
2	Addition During the year	1.64	1.50	1.51
3	Closing Normative Equity	137.33	138.83	140.34
4	Average Normative Equity	136.51	138.08	139.58
5	Average Equity (Wires Business)	122.86	124.27	125.63
6	Average Equity (Retail Supply Business)	13.65	13.81	13.96
7	Return on Equity for Wires Business (%)	15.50%	15.50%	15.50%
8	Return on Equity for Retail Supply Business (%)	16.00%	16.00%	16.00%
9	Return on Equity for Wires Business	19.04	19.26	19.47
10	Return on Equity for Retail Supply Business	2.18	2.21	2.23
11	Return on Equity	21.23	21.47	21.71

Addition to Gross Fixed Assets for Normative Loan, Equity & Depreciation Purpose

Rs. Crore

Sr. No.	Particulars	Previous Year	Current Year	Ensuing Year
		FY 2019-20	FY 2020-21	FY 2021-22
1	Addition to GFA	5.46	5.00	5.02

Rs. Crore

Sr. No.	Particulars	Previous Year	Current Year	Ensuing Year (Projection)
		FY 2019-20	FY 2020-21	FY 2021-22
1	Opening Normative Loan	38.45	26.57	14.18
2	Add: Normative Loan during year (70% of Capitalisation)	3.82	3.50	3.51
3	Less: Normative Repayment	15.71	15.89	16.06
4	Closing Normative Loan	26.57	14.18	1.63
5	Average Normative Loan	32.51	20.37	7.91
6	Rate of Interest	9.55%	8.75%	8.75%
7	Interest on Normative Loan	3.10	1.78	0.69

Form 7: Original Cost of Fixed Assets

Sr. No.	Assets Group	Value of assets at the beginning of FY 2019-20	Addition during FY 2019-20	Value of assets sold/ disposed off during FY 2019-20	Closing balance at the end of previous year FY 2019-20
1	Land	-	-	-	-
2	Civil works/building structure	36.42	-	-	36.42
3	Transmission/distribution system equipments	413.80	5.30	-	419.10
4	Office equipments	0.19	-	-	0.19
5	Furniture & fixtures	0.12	-	-	0.12
6	Vehicles	0.87	0.09	-	0.96
7	Laboratory equipments	0.01	-	-	0.01
8	I. T. equipments	0.47	0.07	-	0.54
9	Tools & tackles	0.43	-	-	0.43
Total		452.31	5.46	-	457.77

Form 7A: Original Cost of Fixed Assets

Sr. No.	Assets Group	FY 2020-21				FY 2021-22			
		Value of assets at the beginning of FY 2020-21	Addition during FY 2020-21	Value of assets sold/ disposed off during FY 2020-21	Closing balance at the end of previous year FY 2020-21	Value of assets at the beginning of FY 2021-22	Addition during FY 2021-22	Value of assets sold/ disposed off during FY 2021-22	Closing balance at the end of previous year FY 2021-22
1	Land	-	-	-	-	-	-	-	-
2	Civil works/building structure	36.42	-	-	36.42	36.42	-	-	36.42
3	Transmission/distribution system equipments	419.10	5.00	-	424.10	424.10	5.02	-	429.12
4	Office equipments	0.19	-	-	0.19	0.19	-	-	0.19
5	Furniture & fixtures	0.12	-	-	0.12	0.12	-	-	0.12
6	Vehicles	0.96	-	-	0.96	0.96	-	-	0.96
7	Laboratory equipments	0.01	-	-	0.01	0.01	-	-	0.01
8	I. T. equipments	0.54	-	-	0.54	0.54	-	-	0.54
9	Tools & tackles	0.43	-	-	0.43	0.43	-	-	0.43
Total		457.77	5.00	-	462.77	462.77	5.02	-	467.79

Form 8: Capital Work-in-Progress**(Rs. in Crores)**

Sr. No.	Particulars	Previous Year (Actual)	Current Year (Estimated)	Ensuing Year (Projected)
		FY 2019-20	FY 2020-21	FY 2021-22
1	Opening Balance	24.49	51.73	72.31
2	Add: New Investments	32.70	25.58	30.89
3	Total	57.19	77.31	103.20
4	Less: Investment capitalised	5.46	5.00	5.02
5	Closing Balance	51.73	72.31	98.18

Form 9: Interest Capitalized**(Rs. in Crores)**

Sr. No.	Interest Capitalized	Current Year (Prov. Actual)	Current Year (Rev. Est)
1	WIP	N.A.	
2	GFA* at the end of the year		
3	WIP+GFA at the end of the year		
4	Interest Rate		
5	Interest (excluding interest on WCL)		
6	Interest Capitalized		

Form 10: Details of loans for FY 2019-20 (Provisional Actuals) [Information to be supplied for the previous year (actuals), current year (RE) and ensuing year (projections)]

There is No Actual Loan for EWEDC, All the Assets are created through Internal Accruals or Equity of Gol only

Sr. No.	Particulars (source)	Opening Balance	Rate of Interest*	Addition during the year	Repayment during the year	Closing Balance	Amount of interest paid	
							Paid	Payable
1	Letter of Credit Charges							
2	PFC*							
3	PFC - Loan No.							
4	PFC - Loan No.							
5	Working capital loan							
6	Others							
7	Total							
8	Add. Govt. loan				N.A.			
	# State Govt.							
	# Central Govt.							
	Total							
9	Total (13+14)							
10	Less capitalization							
11	Net Interest							
12	Add prior period							
13	Total interest							
14	Finance Charges							
15	Total Interest and Finance Charges							
* Average Rate for various loans								

Form 11: Information regarding restructuring of outstanding loans during the FY 2020-21

Sr. No.	Source of loan	Amount of original loan (Rs. Crores)	Old rate of interest	Amount already restructured	Revised rate of interest	Amount now being restructured (Rs. Crores)	New rate of interest
1	N.A.						

Information regarding restructuring of outstanding loans during the FY 2021-22

Sr. No.	Source of loan	Amount of original loan (Rs. Crores)	Old rate of interest	Amount already restructured	Revised rate of interest	Amount now being restructured (Rs. Crores)	New rate of interest
1	N.A.						

Form 12: Depreciation & Accumulated Depreciation Charges

(Rs. in Crores)

Sr. No.	Particulars	Previous Year (Actual)	Current Year (Estimated)	Ensuing Year (Projected)
		FY 2019-20	FY 2020-21	FY 2021-22
1	Opening Gross Fixed Assets	452.31	457.77	462.77
2	Add: Assets added during year (excl grant & ED Fund componenet)	5.46	5.00	5.02
3	Less: Adjustment/Withdrawl	-	-	-
4	Closing Gross Fixed Assets	457.77	462.77	467.79
5	Average Gross Fixed Assets	455.04	460.27	465.28
6	Average Depreciation Rate	3.45%	3.45%	3.45%
	Total Depreciation for year	15.71	15.89	16.06

(Rs. in Crores)

Sr. No.	Particulars	Previous Year (Actual)	Current Year (Estimated)	Ensuing Year (Projected)
		FY 2019-20	FY 2020-21	FY 2021-22
1	Opening Accumulated Depreciation*	278.16	293.87	309.76
2	Add: depreciation for the year	15.71	15.89	16.06
3	Closing Accumulated Depreciation	293.87	309.76	325.82

Form 13: calculation of Advance Against Depreciation

(Rs. in Crores)

Sr. No.	Particulars	Current year	Ensuing year (Projection)
		FY 2020-21	FY 2021-22
1	1/10th of the Loan(s)	N.A.	
2	Repayment of the Loan(s) as considered for working out Interest on Loan		
3	Minimum of the Above		
4	Less: Depreciation during the year		
	A		
5	Cumulative Repayment of the Loan(s) as considered for working out Interest on Loan		
6	Less: Cumulative Depreciation		
	B		
7	Advance Against Depreciation (minimum of A or B)		

Form 14: Repair and Maintenance Expenses

Rs. Crore

Sr. No.	Particulars	Previous Year	Current Year (Prov.)	Current Year (Estimated)	Ensuing Year (Projected)
		2019-20	2020-21 H1	2020-21	2021-22
1	Plant & Apparatus	-	-	-	-
	EHV substations	0.56	0.07	0.16	0.16
	33kv substation	0.02	0.02	0.04	0.04
	11 kv substation	0.05	0.60	1.40	1.44
	Switchgear and cable connection	-	1.23	2.84	2.92
	Others	-	0.76	1.76	1.81
	Total	0.62	2.68	6.20	6.38
2	Buildings (Electricity Residential & Non-Residential)	0.34	-	-	-
3	Hydraulic works & civil works	-	-	-	-
4	Line cable & network	-	-	-	-
	EHV Lines	-	0.06	0.14	0.15
	33kv Lines	-	-	-	-
	11 kv Lines	0.10	0.10	0.23	0.24
	LT Lines	10.94	0.83	1.93	1.98
	Meters and metering equipment	-	0.04	0.09	0.10
	Total	11.25	1.04	2.40	2.47
5	Vehicles	0.37	0.08	0.17	0.18
6	Furniture & Fixtures	-	0.001	0.002	0.002
7	Office Equipments	-	-	-	-
8	Minor R&M Works	-	0.88	2.04	2.10
9	O&M Total	1.05	-	-	-
	Sub Total (1+2+3+4+5+6+7+8+9)	13.63	4.68	10.81	11.13
10	Add/deduct share of others (To be specified)				
	Total expenses				
11	Less: Capitalized				
	Net expenses	13.63	4.68	10.81	11.13
12	Add: Prior Period				
13	Total R&M expenses	13.63	4.68	10.81	11.13

Form 15: Total Number of Employees

Sr. No.	Particulars	Previous Year	Current Year (Half Yearly)	(Approved)	(Approved)
		2019-20	2020-21 H1	2020-21	2021-22
1	Number of Employees as on 1st April	849	788	977	970
2	Permanent Posts filled during the year	5	-	41	48
3	Number of Employees retired/retiring during the year	66	31	48	35
4	Number of Employees at the end of year	788	757	970	983
5	Number of Contract Employees as on 1st April	199	189		
6	Contract Employees added	-	179		
7	Contractual Employees relieved	10	-		
8	Number of Contract Employees at the end of Year	189	368		
Number of employees & Contract Employees at the end of Year		977	1,125	970	983

Form 16: Employee Cost

Rs. Crore

Sr. No.	Particulars	Previous Year	Current Year (Prov.)	Current Year (Estimated)	Ensuing Year (Projected)
		2019-20	2020-21 H1	2020-21	2021-22
1	Basic Pay	22.94	12.19	24.38	22.74
2	Dearness pay	-	-	-	-
3	Dearness Allowance	36.97	19.79	39.59	36.93
4	House Rent Allowance	2.22	1.20	2.39	2.23
5	Fixed Medical Allowance	0.49	0.26	0.52	0.48
6	Medical Reimbursement Charges	0.88	0.39	0.78	0.73
7	Over Time Payment	-	-	-	-
8	Other Allowance	0.85	0.45	0.89	0.83
9	General Incentive	1.20	-	-	-
10	Bonus	-	-	-	-
11	Stipend	-	-	-	-
12	Travelling Allowance	0.84	-	-	-
13	Sub Total - A	66.40	34.27	68.55	63.94
14	Terminal Benefit	-	-	-	-
15	Leave Encashment	0.01	4.21	8.43	7.86
16	Gratuity	-	1.80	3.59	3.35
17	Commutation of Pension	-	-	-	-
18	Workmen Compensation	0.12	-	-	-
19	Ex-gratia	-	-	-	-
20	Sub Total - B	0.13	6.01	12.02	11.21
21	Other Salary Payments	2.11	0.26	0.53	0.49
22	Arrears on Account of with Pay Commission	-	-	-	-
23	Contractual Basis	6.65	2.51	5.01	4.67
24	Sub Total - C	8.76	2.77	5.54	5.17
25	Total (A+B+C)	75.30	43.05	86.11	80.32
26	Less: Amount Capitalized	-	-	-	-
27	Net Amount	75.30	43.05	86.11	80.32
28	Add: Prior Period Expenses	-	-	-	-
29	Total Employee Expenses	75.30	43.05	86.11	80.32
30	Concessional power to Employee	-	-	-	-
31	Total Employee Expenses	75.30	43.05	86.11	80.32

Form 17: Administration and General Expenses
Rs. Crore

Sr. No.	Particulars	Previous Year	Current Year (Prov.)	Current Year (Estimated)	Ensuing Year (Projected)
		2019-20	2020-21 H1	2020-21	2021-22
1	Rent, Rates & Taxes & Freight	-	-	-	-
2	Telephone Charges	0.11	0.05	0.12	0.12
3	Office Expenses	0.07	0.39	0.08	0.08
4	Insurance	0.003	0.003	0.003	0.003
5	Regulatory Expenses (License+Petition fees)	-	1.26	-	-
6	Consultancy fees and Other Professional Fees	-	0.08	-	-
7	Electricity & Water Charges	0.59	0.15	0.67	0.66
8	Advertisement & Publicity	0.32	0.09	0.36	0.35
9	Legal, Professional & Special Service Charges	1.15	0.00	1.32	1.28
10	Other A&G Expenses	3.20	1.08	3.66	3.57
11	Expenses of CGRF (office)	-	-	-	-
12	Registration Charges - PGCIL etc.	-	-	-	-
13	Other material related expenses	-	-	-	-
14	Total	5.42	3.11	6.22	6.06
15	Add/Deduct share of others (to be specified) wages	-	-	-	-
16	Provision for Doubtful Debts	-	-	-	-
17	Total Expenses	5.42	3.11	6.22	6.06
18	Less: capitalized	-	-	-	-
19	Net Expenses	5.42	3.11	6.22	6.06
20	Add: Prior Period	-	-	-	-
21	Total A & G Expenses	5.42	3.11	6.22	6.06

Form 19: Information regarding Working Capital for ensuing year

Sr. No.	Particulars	Previous Year	Current Year	Ensuing Year
		2019-20	2020-21	2021-22
1	Two months receivables	140.33	155.10	158.34
2	Add: One Month O&M Expenses	7.86	8.59	8.13
3	Add: 40% of repair and maintenance expenses for one month	0.45	0.36	0.37
4	Less: Consumer Security Deposit excl. BG/FDR	195.72	199.72	207.72
5	Total working capital Requirement	0.00	0.00	0.00
6	Interest Rate	10.55%	9.75%	9.75%
7	Interest on Working Capital	0.00	0.00	0.00

Form 19A: Information regarding Security Deposits from Consumers

Sr. No.	Particulars	Previous Year	Estimated	Projection
		2019-20	2020-21	2021-22
1	Opening Consumer Security Deposit	197.85	195.72	203.72
2	Net Addition During the year	-2.13	8.00	8.00
3	Closing Consumer Security Deposit	195.72	203.72	211.72
4	Average Deposit	196.78	199.72	207.72
5	Bank Rate	4.60%	6.25%	6.25%
6	Interest on Consumer Security Deposit	9.04	12.48	12.98

Form 20: Information regarding Foreign Exchange Rate Variation (FERV)

Sr. No.	Particulars	Previous Year (Prov. Actual)	Current Year	Ensuing Year (Projection)
		2019-20	2020-21	2021-22
1	Amount of liability provided	N.A.		
2	Amount recovered			
3	Amount adjusted			

Form 21: Non Tariff Income

Sr. No.	Particulars	Previous Year (Actual)	Current Year (Prov. 6 months)	Current Year (Projection)	Ensuing Year (Projection)
		2019-20	2020-21 H1	2020-21	2021-22
1	Meter/Service rent	10.20	2.59	5.18	5.43
2	Income from Bonds	-	-	-	-
3	Late Payment Surcharge	7.31	5.58	11.17	11.73
4	Theft/Pilferage of Energy	-	-	-	-
5	Misc receipts/Income	7.46	0.71	1.42	1.49
Total Income		24.97	8.88	17.77	18.66

Form 22: Information regarding Revenue from Other Business

Sr. No.	Particulars	(Rs. Crore)
		FY 2019-20 to FY 2021-22
1	Total revenue from other business	N.A.
2	Income from other business to be considered for licensed business as per regulations	

Form 23: Lease Details

Sr. No.	Name of Lesser	Gross Assets (Rs. Crore)	Lease entered on	Lease Rentals	Primary period ended / ending by	Secondary period ending by
1	N.A.					

Form 24: Information regarding Wholesale Price Index (All Commodities)

Sr. No.	Period	WPI	Increase over previous years
1	Financial Year 2018-19	119.80	
2	Financial Year 2019-20	121.80	1.67%

Form 25: Information regarding amount of equity and loan

Sr. No.	Period	Total Capitalization	Amount of equity (Rs. Crore)*	Amount of loan (Rs. Crore)	Ratio of equity & loan
1	As on March 31 of (FY 20-21)	5.00	1.50	3.50	30:70
2	As on March 31 of (FY 21-22)	5.02	1.51	3.51	30:70

Normative Equity and Loan

Form 26: Cash flow statement for the FY 2021-22 (Projected)

Sr. No.	Month	Sources of receipt (Power Sold)**	Amount	Particulars of payment (Power Purchase)*	Amount
1	April				
2	May				
3	June				
4	July				
5	August				
6	September				
7	October				
8	November				
9	December				
10	January				
11	February				
12	March				
N. A.					
*PP for FY 2021-22, pro-rated based on FY 20-21 monthwise Input at Periphery					
**Projected after losses					

Particulars	MUs	Rs. Crs.	Rs./kWh
Average Tariff			
Average PP cost (net)			

Form 27: ANNUAL REVENUE REQUIREMENT

Sr. No.	Item of expense	Previous Year	Current Year	Ensuing Year (Projection)
		2019-20	2020-21	2021-22
1	Cost of fuel	-	-	-
2	Cost of power purchase	772.54	817.60	890.53
3	Employee costs	75.30	86.11	80.32
4	R&M expenses	13.63	10.81	11.13
5	Administration and General expenses	5.42	6.22	6.06
6	Depreciation	15.71	15.89	16.06
7	Interest on Loan & Finance charges	3.10	1.78	0.69
8	Interest on Working Capital*	-	-	-
9	Return on NFA/ Equity*	21.23	21.47	21.71
10	Provision of Bad Debt	4.34	9.31	9.50
11	Interest on Security Deposit*	9.04	12.48	12.98
12	Total Revenue Requirement	920.31	981.66	1,048.99
13	Less: Non Tariff Income	24.97	17.77	18.66
14	Less: Sale of UI Power	78.07	52.95	64.99
15	Net Revenue Requirement	817.27	910.95	965.34
16	Revenue from Retail Sales at Existing Tariff including FPPCA Charges & Regulatory Surcharge	851.54	931.73	950.02
17	Energy Sales (MU)	1,595.55	1,626.51	1,658.27
18	Average Cost of Supply (Rs./kWh) - (15/17)	5.12	5.60	5.82

Form 28: REVENUE AT EXISTING TARIFF for YEAR 2020-21 WITH EXISTING STRUCTURE

Particular	FY 2020-21				
	Yearly Estimated Sales (in MUs)	Load in kW	Demand Charges (Rs./kW/month)	Variable Charge Per Unit (in Rs.)	Total Revenue (Rs. Cr.)
1 Domestic - LT					
less-150: (Single Phase)	57.26	143998.201	1.73	15.75	17.47
less-150: (Three Phase)	5.21	84235.209	1.01	1.43	2.44
less-400: (Single Phase)	176.68	158601.402	1.90	84.81	86.71
less-400: (Three Phase)	51.56	169870.497	2.04	24.75	26.79
more-400: (Single Phase)	189.81	50464.056	0.61	98.70	99.31
more-400: (Three Phase)	271.10	287443.153	3.45	140.97	144.42
2 Domestic - HT	30.28	35969.077	0.43	14.53	14.97
3 Commercial - LT					
less-150: (Single Phase)	5.11	19806.141	0.48	2.56	3.03
less-150: (Three Phase)	0.26	24041.714	2.89	0.13	3.02
less-400: (Single Phase)	12.20	11481.402	0.28	6.47	6.74
less-400: (Three Phase)	5.09	24066.153	2.89	2.70	5.58
more-400: (Single Phase)	22.14	5703.345	0.14	12.40	12.53
more-400: (Three Phase)	179.96	142425.230	17.09	100.78	117.87
4 Commercial - HT	265.42	247327.119	29.68	140.67	170.35
5 Large Supply	124.00	68639.000	16.47	62.00	78.47
6 Medium Supply	108.69	72565.398	17.42	51.08	68.50
7 Small Power Supply	18.43	22404.273	0.81	8.85	9.65
8 Agriculture	1.41	869.101	-	0.41	0.41
9 Public Lighting	14.78	4582.967	0.55	7.91	8.46
10 Bulk Supply	82.93	41803.846	10.03	40.63	50.67
11 Other Temporary Supply	4.20	2586.770	-	3.18	3.18
Total	1,626.51	1618884.054	109.88	820.70	930.57

Form 29: REVENUE AT EXISTING TARIFF YEAR 2021-22 WITH EXISTING STRUCTURE

Sr. No.	Particular	FY 2021-22				
		Yearly Estimated Sales (in MUs)	Load in kW	Demand Charges (Rs./kW/month)	Variable Charge Per Unit (in Rs.)	Total Revenue (Rs. Cr.)
1	Domestic - LT					
	less-150: (Single Phase)	58.97	148319.354	1.78	16.22	18.00
	less-150: (Three Phase)	5.37	86762.971	1.04	1.48	2.52
	less-400: (Single Phase)	181.96	163360.774	1.96	87.34	89.30
	less-400: (Three Phase)	53.10	174968.037	2.10	25.49	27.59
	more-400: (Single Phase)	195.48	51978.401	0.62	101.65	102.27
	more-400: (Three Phase)	279.19	296068.858	3.55	145.18	148.73
2	Domestic - HT	31.18	37048.451	0.44	14.97	15.41
3	Commercial - LT					
	less-150: (Single Phase)	5.17	20748.042	0.50	2.59	3.08
	less-150: (Three Phase)	0.26	25185.041	3.02	0.13	3.15
	less-400: (Single Phase)	12.34	12027.412	0.29	6.54	6.83
	less-400: (Three Phase)	5.15	25210.643	3.03	2.73	5.75
	more-400: (Single Phase)	22.40	5974.573	0.14	12.54	12.69
	more-400: (Three Phase)	182.07	149198.402	17.90	101.96	119.86
4	Commercial - HT	268.54	259089.004	31.09	142.32	173.42
5	Large Supply	124.24	68639.000	16.47	62.12	78.59
6	Medium Supply	111.05	75687.283	18.16	52.20	70.36
7	Small Power Supply	18.43	23491.198	0.85	8.85	9.69
8	Agriculture	1.41	905.857	-	0.41	0.41
9	Public Lighting	14.78	4582.967	0.55	7.91	8.46
10	Bulk Supply	82.97	41955.391	10.07	40.66	50.73
11	Other Temporary Supply	4.20	2586.770	-	3.18	3.18
	Total	1,658.27	1673788.428	113.58	836.45	950.02

Form 30: REVENUE AT PROPOSED TARIFF FOR FY 2021-22

Sr. No.	Particular	FY 2021-22				
		Yearly Estimated Sales (in MUs)	Load in kW	Demand Charges (Rs./kW/month)	Variable Charge Per Unit (in Rs.)	Total Revenue (Rs. Cr.)
1	Domestic - LT					
	less-150: (Single Phase)	58.97	148319.354	1.78	16.22	18.00
	less-150: (Three Phase)	5.37	86762.971	1.04	1.48	2.52
	less-400: (Single Phase)	181.96	163360.774	1.96	87.34	89.30
	less-400: (Three Phase)	53.10	174968.037	2.10	25.49	27.59
	more-400: (Single Phase)	195.48	51978.401	0.62	101.65	102.27
	more-400: (Three Phase)	279.19	296068.858	3.55	145.18	148.73
2	Domestic - HT	31.18	37048.451	0.44	14.97	15.41
3	Commercial - LT					
	less-150: (Single Phase)	5.17	20748.042	0.50	2.59	3.08
	less-150: (Three Phase)	0.26	25185.041	3.02	0.13	3.15
	less-400: (Single Phase)	12.34	12027.412	0.29	6.54	6.83
	less-400: (Three Phase)	5.15	25210.643	3.03	2.73	5.75
	more-400: (Single Phase)	22.40	5974.573	0.14	12.54	12.69
	more-400: (Three Phase)	182.07	149198.402	17.90	101.96	119.86
4	Commercial - HT	268.54	259089.004	31.09	142.32	173.42
5	Large Supply	124.24	68639.000	16.47	62.12	78.59
6	Medium Supply	111.05	75687.283	18.16	52.20	70.36
7	Small Power Supply	18.43	23491.198	0.85	8.85	9.69
8	Agriculture	1.41	905.857	-	0.41	0.41
9	Public Lighting	14.78	4582.967	0.55	7.91	8.46
10	Bulk Supply	82.97	41955.391	10.07	40.66	50.73
11	Other Temporary Supply	4.20	2586.770	-	3.18	3.18
	Total	1,658.27	1673788.428	113.58	836.45	950.02