

**BEFORE THE
HON'BLE DELHI ELECTRICITY REGULATORY COMMISSION, NEW
DELHI**

**True-up of FY 2020-21 along with Annual Revenue
Requirement (ARR) for FY 2021-22 and ARR & Determination
of Tariff for FY 2022-23**

Volume I



**NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA, SANSAD MARG, NEW DELHI -110001**

Submitted by

NEW DELHI MUNICIPAL COUNCIL



NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA, SANSAD MARG, NEW DELHI – 110001

D No. D-61/Com Power/2021

Dated. 29... November 2021

To,

The Secretary
Delhi Electricity Regulatory Commission
Viniyamak Bhawan, Shivalik
C-Block, Malviya Nagar,
New Delhi -110017

Sub: **Submission of Petition for the approval of True-up for FY 2020-21 along with ARR and Determination of Tariff for FY 2022-23**

Ref: **DERC Letter No.F.3 (656)/Tariff-Fin./DERC/2021-22/7212/1168 dated 21st October 2021.**

Dear Sir,

In reference to afore mentioned letter, please find attached herewith the Petition (Volume-1 and Volume-II) for True-up for FY 2020-21 along with ARR and Determination of Tariff for FY 2022-23 for kind approval of the Hon'ble Commission.

A copy of DD/Pay-order for Rs one Lakh in favour of Secretary/DERC towards filing Fee of the Petition is also attached.

Soft copy of the Petition is being emailed separately.

Thanking you,

Arvind Gaur
Director (Power)

Encl: as above

Director (Power)
New Delhi Municipal Council
Palika Kendra, New Delhi-110 00

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Before the Delhi Electricity Regulatory Commission, New Delhi

File No.:

Case No......

IN THE MATTER OF:

Petition for the approval of True-up for FY 2020-21 along with ARR and Determination of Tariff for FY 2022-23

AND

IN THE MATTER OF

New Delhi Municipal Council, New Delhi -110001

PETITIONER

AFFADVIT VERIFYING THE PETITION

I **Arvind Guar**, Director (Power), NDMC do hereby solemnly affirm and state as follows.

1. That I am Director (Power) of NDMC and I am conversant with the facts of the case.
2. That the statement made above in the accompanying True-up petition for FY 2020-21 and corresponding determination of tariff for FY 2022-23 for NDMC is based in records believed by me to be true



DEPONENT

Director (Power)
New Delhi Municipal Council
Palika Kendra, New Delhi-110 001

VERIFICATION

Verified on this day of November, 2021 that the contents of the affidavit are true to the best of my knowledge and belief and nothing has been concealed thereof.



DEPONENT

Director (Power)
New Delhi Municipal Council
Palika Kendra, New Delhi-110 001

Before The
Delhi Electricity Regulatory Commission, Delhi

IN THE MATTER OF: Approval of True Up for FY 2020-21 along with Annual Revenue Requirement (ARR) for FY 2021-22 and ARR & Determination of Tariff for FY 2022-23.

AND

IN THE MATTER OF: New Delhi Municipal Council Palika Kendra, Sansad Marg, New Delhi – 110001 ("NDMC")

The applicant respectfully submits as hereunder that: -

- 1.1 New Delhi Municipal Council (hereinafter referred to as "NDMC" or "Petitioner") is a Municipal Council entrusted with the distribution of electricity to the consumers in the New Delhi Municipal area under Section 195 to 201 of the New Delhi Municipal Council Act 1994 enforced with the approval of Parliament of India.
- 1.2 Section 197 of the New Delhi Municipal Council Act, 1994 states that, "Subject to the provisions of this Act the Council shall in respect of the New Delhi areas under its jurisdiction have all the powers and obligations of the licensee under the Electricity Act, 1910."
- 1.3 As per Section 200 of the New Delhi Municipal Council Act 1994, NDMC has the power to fix charges to be levied for the electricity supplied by it, subject to the provisions of any law for the time being in force.
- 1.4 The Govt. of India had notified the Electricity Act, 2003 on 10th June, 2003 repealing the Indian Electricity Act-1910, the Electricity (Supply) Act 1948 and the Electricity Regulatory Commission Act, 1998.
- 1.5 NDMC has been considered as the deemed distribution licensee under the Electricity Act 2003 in respect of the area under New Delhi Municipal Council.
- 1.6 Pursuant to the enactment of the Electricity Act 2003, the Hon'ble Delhi Electricity Regulatory Commission (DERC) has framed Regulations specifying the terms and conditions for determination of tariff as amended from time to time as summarized below:

- Delhi Electricity Regulatory Commission regulations vide notification dated 30th May, 2007 specifying Terms and Conditions for Determination of Tariff for Generation, Transmission and Distribution of electricity under the Multi Year Tariff (MYT) framework for the period FY08 – FY11.
 - DERC Wheeling Tariff and Retail Supply Tariff) Regulations, 2011 vide notification dated December 02, 2011, specifying Terms and Conditions for Determination of Tariff for Distribution of electricity under the Multi Year Tariff (MYT) framework for the second control period i.e., period FY13 - FY16.
 - DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 (hereinafter would be referred as 'DERC Tariff Regulations, 2017') vide notification dated Jan 31, 2017.
 - Delhi Electricity Regulatory Commission (Business Plan) Regulations, 2017 (hereinafter referred to as "the Principal Regulations"):
 - Delhi Electricity Regulatory Commission (Business Plan) Regulations, 2019 (hereinafter referred to as "the Principal Regulations"):
 - Delhi Electricity Regulatory Commission (Business Plan) (First Amendment) Regulations, 2021
 - Delhi Electricity Regulatory Commission (Business Plan) (Second Amendment) Regulations, 2021
- 1.7 NDMC had filed the revised petition 7/2020 for the True-up of FY 2018-19, and ARR and Tariff for FY 2020-21 in accordance with the provisions of DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017. Hon'ble Commission disposed of the petition vide its order published on October 19, 2020.
- 1.8 NDMC filed 2 review petitions 1. Review Petition No. 40/2020 dated 21/09/2020 against increase in Allocation of PPS-III Bawana Power Station and 2. Review Petition No. 10/2021 dated 20/01/2021 against certain disallowances made by Hon'ble Commission in its order dated 28.08.2020 for True up of FY 2018-19.
- Review petition No.40/2020 dated 21/09/2020 was disposed of by the Hon'ble Commission vide its Order dated 17.03.2021. Review petition No. 10/2021 dated 20/01/2021 is under consideration of the Hon'ble Commission.
- 1.9 NDMC had filed the petition for True-up of FY 2019-20 and ARR for FY 2020-21 and ARR & Tariff for 2021-22 in accordance with the provisions of DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017. The Hon'ble Commission disposed of the petition vide its order dated 30.09.2021.
- 1.10 By means of this petition, NDMC is submitting the Petition for True-up of FY 2020-21, ARR for FY 2021-22 and ARR & Tariff for 2022-23 in accordance with the provisions of DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017.



- 1.11 While submitting this information, NDMC has made efforts to adhere to most of the Regulations framed by the Hon'ble Commission.
- 1.12 Forms for ARR and Tariff Filling have been enclosed with the petition along with a soft copy in CD.
- 1.13 NDMC requests the Hon'ble Commission to approve True Up for FY 2020-21 and determination of Annual Revenue Requirement (ARR) and Tariff for FY 2022-23.

Prayer to the Hon'ble Commission

- 1.14 NDMC respectfully prays the Hon'ble Commission to:
- (a) Consider the submissions and approve True-up for FY 2020-21 and review and approve the projected ARR and Tariff for FY 2022-23 as proposed in the petition as per the provisions of DERC Tariff Regulations, 2017 and DERC (Business Plan) Regulations, 2019.
 - (b) Examine the proposal submitted by NDMC for a favorable dispensation as detailed in this document.
 - (c) Condone any inadvertent omissions / errors / shortcomings and permit NDMC to add/change/modify/alter this filing and make further submissions as may be required at a future date.
 - (d) Pass such further order, as the Hon'ble Commission may deem fit and appropriate keeping in view the facts and circumstances of the case.
 - (e) Allow the submission of additional / supplementary information as may be required or necessary from time-to-time.

New Delhi Municipal Council
New Delhi

Dated: November, 2021



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LIST OF ABBREVIATIONS

Abbreviation	Explanation
ADHPL	AD Hydro Power Ltd
ARR	Aggregate Revenue Requirement
AT&C Loss	Aggregate Technical and Commercial Loss
A&G	Administrative and General
BST	Bulk Supply Tariff
BTPS	Badarpur Thermal Power Station
CAG	Comptroller and Auditor General
CAGR	Compounded Annual Growth Rate
CCGT	Combined Cycle Gas Turbine
CERC	Central Electricity Regulatory Commission
CEA	Central Electricity Authority
CPI	Consumer Price Index
CWIP	Capital Work in Progress
DAM	Day Ahead Market
DERC	Delhi Electricity Regulatory Commission
DISCOM	Distribution Companies (BRPL, BYPL, TPDDL & NDMC)
DMRC	Delhi Metro Rail Corporation
DMSWSL	Delhi MSW Solutions Limited
DTL	Delhi Transco Ltd
E-Tax	Electricity tax
EDWPCL	East Delhi Waste Processing Company Private Limited
FY	Financial Year
GFA	Gross Fixed Assets
GoHP	Government of Himachal Pradesh
GoNCTD	Government of National Capital Territory of Delhi
GTAM	Green Term Ahead Market
HT	High Tension
IEX	Indian Energy Exchange
KPCPL	Kanchenjunga Power Corporation Pvt. Ltd
kV	Kilo Volt

kVA	Kilo Volt Ampere
kVAh	Kilo Volt Ampere Hour
kWh	Kilo Watt Hour
LT	Low Tension
MNRE	Ministry of New and Renewable Energy
MPCL	Malana Power Company Ltd
MU	Million Units
MW/KW	Mega Watt/ Kilo Watt
MYT	Multi Year Tariff
NDMC	New Delhi Municipal Council
NTI	Non-Tariff Income
O&M	Operation and Maintenance
OCFA	Original Cost of Fixed Assets
PGCIL	Power Grid Corporation of India Ltd
PLF	Plant Load Factor
PPAC	Power Purchase Cost Adjustment Charge
PPCL	Pragati Power Corporation Ltd.
PTC	Power Trading Corporation Ltd.
PXIL	Power Exchange India
RAPP	Rajasthan Atomic Power Project
REC	Renewable Energy Certificate
R&M	Repairs and Maintenance
RoCE	Return on Capital Employed
RPO	Renewable Purchase Obligation
RRB	Regulated Rate Base
RTM	Real Time Market
SBU	Strategic Business Unit
SGS	State Generating Station
SLDC	State Load Dispatch Centre
TAM	Term Ahead Market
T&D	Transmission & Distribution
TOWMCL	Timarpur Okhla Waste Management Co. Pvt. Ltd.

TPS	Thermal Power Station
TPTCL	Tata Power Trading Corporation Ltd
UI	Unscheduled Interchange
UMPP	Ultra-Mega Power Project
UoM	Unit of Measurement
WACC	Weighted Average Cost of capital
WPI	Wholesale Price Index
YoY	Year on Year

1 INTRODUCTION

1.1 NDMC Overviews

- 1.1.1 New Delhi Municipal Council (NDMC) is a Municipal Council entrusted with the distribution of electricity to the consumers in the New Delhi area under Section 195 to 201 of the New Delhi Municipal Council Act 1994. NDMC has the obligations of a Licensee under the Indian Electricity Act 1910 in respect of the New Delhi Area.
- 1.1.2 Under Section 200 of the New Delhi Municipal Council Act 1994, NDMC has the powers to fix charges to be levied for the electricity supplied by it, subject to the provisions of any law for the time being in force.
- 1.1.3 Govt. of India notified the Electricity Act, 2003 on June 10, 2003, repealing the Indian Electricity Act-1910, the Electricity (Supply) Act 1948 and the Electricity Regulatory Commission Act, 1998.
- 1.1.4 NDMC has been considered as the deemed distribution licensee under the Electricity Act 2003 in respect of the area under New Delhi Municipal Council.
- 1.1.5 Till March 31, 2007, Delhi Transco Limited (DTL) was the sole entity responsible for the bulk procurement and bulk supply of power in Delhi. All the DISCOMs in Delhi had to purchase power from DTL at an approved Bulk Supply Tariff (BST) based on their capacity to pay. On June 28, 2006, GoNCTD issued a set of Policy Directions for making power supply arrangements in Delhi from 1st April, 2007. These Policy Directions were issued under Section 108 of the Electricity Act, 2003 (hereinafter referred to as the 'Act').
- 1.1.6 With effect from April 01, 2007, the responsibility for arranging supply of power in Delhi for its own licensed area rests with the NDMC in accordance with the provisions of the Electricity Act 2003.

1.2 Procedural History

- 1.2.1 NDMC had filed the petition (7/2020) for the True-up of FY 2018-19 and determination of Tariff for FY 2020-21 in accordance with the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017. The Hon'ble Commission disposed of the petition vide its order dated 28.08.2020.
- 1.2.2 NDMC filed 2 Review Petitions 1. Review Petition No. 40/2020 dated 21/09/2020 against increase in Allocation of PPS-III Bawana Power Station and 2. Review Petition 10/2021 dated 20/01/2021 against certain disallowances made by Hon'ble Commission in its order published on October 19, 2020.
- 1.2.3 Review Petition No.40/2020 dated 21/09/2020 was disposed of by the Hon'ble Commission vide its Order dated 17.03.2021. Review Petition No. 10/2021 dated 20/01/2021 is under consideration of the Hon'ble Commission.
- 1.2.4 NDMC had filed the petition for True-up of FY 2019-20 and ARR for FY 2020-21 and ARR & Tariff for 2021-22 in accordance with the provisions of DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017. The Hon'ble Commission disposed of the petition vide its order dated 30.09.2021 published on 18.10.2021.

1.3 Current Submission

- 1.3.1 The Hon'ble Commission issued Regulations vide notification dated Jan 31, 2017, specifying Terms and Conditions for Determination of Tariff for Generation, Transmission and Distribution of electricity under the Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017 (DERC Tariff Regulations, 2017). The said regulations were made effective from Feb 1, 2017.
- 1.3.2 The Hon'ble Commission issued DERC Business Plan Regulation. 2019 and the said Regulations as amended are applicable for FY 2020-21, FY 2021-22, and FY 2022-23.
- 1.3.3 By means of this petition, NDMC is submitting the True-up for FY 2020-21 and seeks approval of ARR and Tariff for FY 2022-23.
- 1.3.4 NDMC has made genuine efforts for compiling all relevant information as required by the regulations issued by the Hon'ble Commission and has also made every effort to ensure that information provided to the Hon'ble Commission is accurate and free from material errors. Any additional information required by the Hon'ble Commission shall be made available to the extent the same is available with NDMC.

1.4 Contents

- 1.4.1 The following sections explain in detail the truing-up of the ARR for the FY 2020-21. For FY 2022-23, the Petitioner has submitted all requisite information to project the ARR and corresponding Tariff determination information.
- Category wise Energy Sales & Revenues at existing tariffs.
 - Determination of Annual Revenue Requirement by forecast of the following costs, other income & returns:
 - Power Purchase Cost
 - Operation and maintenance Expenses
 - Capitalization
 - Consumer Contribution
 - Depreciation
 - Return on Capital Employed
 - Non-Tariff Income
 - Determination of Allocation of ARR for Retail and Wheeling Business.

2 TRUE UP FOR FY 2020-21

2.1 Background

2.1.1 The tariff for FY 2020-21 was approved by the Hon'ble Commission against Tariff Petition no 7/2021 vide its order dated September 30, 2021 and published on 18 October, 2021. The tariff was determined as per DERC Tariff Regulations 2017 and DERC Business Plan Regulations, 2019.

2.1.2 In this petition, the Petitioner is submitting the actual expenses (except the O&M expenses which have been considered based on the norms fixed by the Hon'ble Commission) and revenue for FY 2020-21. Accordingly, the true-up amount has been calculated as detailed in this section and Gap has been carried forward to the Aggregate Revenue Requirement of FY 2022-23.

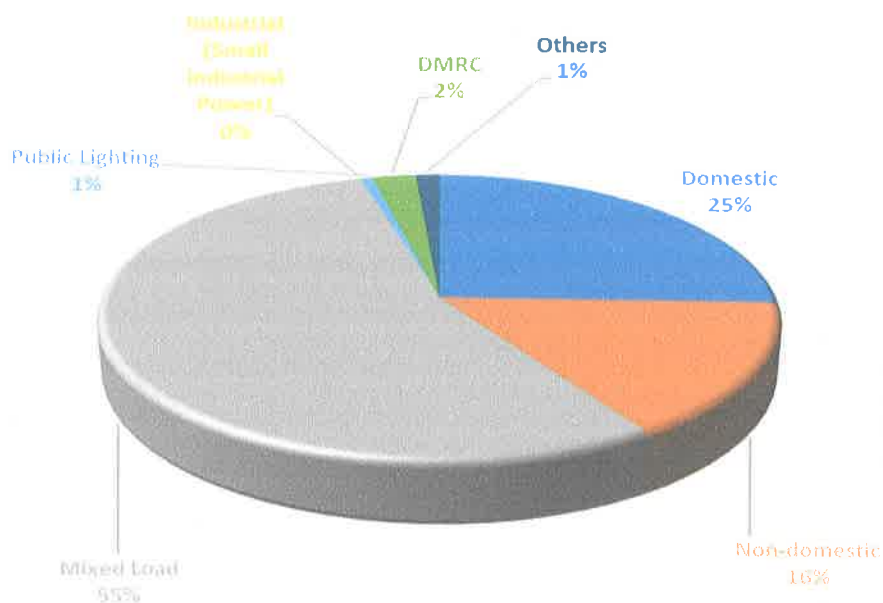
2.2 Energy Sales

2.2.1 NDMC has provided the category-wise energy sales data for FY 2020-21 in the table below. The actual energy sales for FY 2020-21 were 1010.19 MU against the approved energy sales of 1109.00 MU. As may be observed, the energy sales have reduced in comparison to approved sales in FY 2020-21 due to COVID-19 & lockdown conditions and as shown in the table below: -

Table 2-1: Category-wise Sales for FY 2020-21 (in MU)

S. No.	Category	Approved in TO FY 2020-21	Actual
1	Domestic	252.00	255.78
2	Non-domestic	804.00	156.27
3	Mixed Load		553.73
4	Industrial (Small Industrial Power)	0.00	0.03
5	Public Lighting	7.00	6.91
6	DMRC	33.00	23.90
7	Others	13.00	13.58
	Total	1109.00	1010.19

Figure 2.1: Category-wise % Energy Sales for FY 2020-21

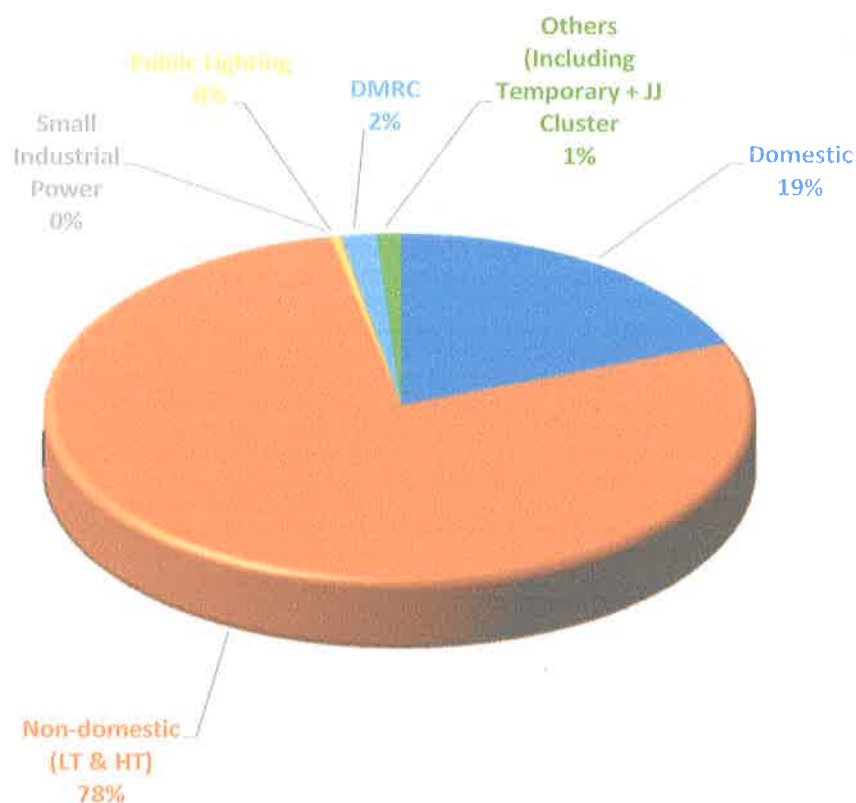


2.3 Revenue from Energy Sales

2.3.1 The category wise Revenue approved for FY 2020-21 and the sales achieved by the utility is given below as per Form 2.1 (a):

Table 2-2: Category-wise Amount Billed for FY 2020-21 (Rs in Cr)

S. No.	Category	Approved in TO FY 2020-21			Actual Revenue			E. Tax Actual	Actual Total FY 2020-21 Including E. Tax
		Fixed Charges	Energy Charges	Total Revenue	Fixed Charges	Energy Charges (including Misuse charges)	Total Revenue without E Tax		
1	Domestic	22.79	117.35	140.14	33.79	158.95	192.75	9.67	202.41
2	Non-domestic (LT & HT)	166.28	711.71	877.99	214.94	613.05	827.99	40.69	868.68
3	Small Industrial Power	0.01	0.00	0.01	0.01	0.02	0.03	0.00	0.03
4	Public Lighting	2.87	25.00	27.87	0.76	4.06	4.82	0.24	5.06
5	DMRC	-	-	0.00	3.40	14.66	18.06	0.88	18.94
6	Others (Including Temporary Connections + JJ Cluster)	1.99	14.37	16.36	2.68	9.31	11.99	0.76	12.75
	Total	193.94	868.43	1062.37	255.58	800.06	1055.63	52.24	1107.88

Figure 2.2: Chart Showing Category-wise % Revenue Billed for FY 2020-21

2.3.2 The consolidated Revenue approved for FY 2020-21 and the sales achieved by the utility is given in Table below as per Form 2.1 a-D.

Table 2-3: Revenue from Sale of Power for FY 2020-21 (in Rs. Crore)

S. No.	Particulars	Approved in TO FY 2020-21	Actual
1	Energy Charges Billed (excluding Electricity Tax)	868.43	800.06
2	Fixed Charges	193.94	255.58
3	Total (1 + 2)	1062.37	1055.63
4	E-tax billed	0.000	52.24
5	Revenue Billed Including Electricity tax and including Surcharge (3 + 4)	1062.37	1107.88

2.3.3 NDMC humbly pleads before the Hon'ble Commission that the organization is not registered under Company Act. The Accounts are audited first internally and subsequently by CAG. Owing to this, NDMC will not be able to furnish Auditor's Certificate and requests the Hon'ble Commission to accept this submission.

2.3.4 Detailed list of category wise consumers addition and deletion in FY 2020-21 is given in table below:

Table 2-4: Category Wise Consumers for FY 2020-21

S. No.	Consumer Category	Total No. of Consumers as on	No. of Consumers added during	No. of Consumers deleted during	Total No. of Consumers as on
		31-03-2020	FY 2020-21	FY 2020-21	31-03-2021
1	Domestic	34295	1272	0	35567
2	Non-Domestic	17296	504	0	17800
3	Mix Load (High Tension) Load >100kw	503	12	0	515
4	Small Industrial Power (SIP)	5	0	0	5
5	Public Lighting	66	2	0	68
6	Delhi Metro Rail Corporation (DMRC)	1	0	0	1
7	Temporary Connection more or equal to 16 days	1440	87	0	1527
8	Others	0	0	0	0
9	JJ Cluster (Flat Rate)	976		43	933
10	Grand Total	54582	1877	43	56416

2.3.5 NDMC submits that the revenue collected, and revenue billed (including E. Tax) for FY 2020-21 is as below:

Table 2-5: Revenue Billed and Revenue Collected for FY 2020-21

S. No.	Particulars	Approved in TO FY 2020-21	Actual
1	Revenue Billed (Rs. Crore)	1062.37	1055.63
2	Revenue Collected (Rs. Crore)	1057.06	1104.61
3	Collection Efficiency 2020-21 (%)	99.50%	104.64%

2.3.6 The Revenue Billed includes Fixed Charge, Energy Charges, Other Charges and PPAC Amount Billed. Additionally, NDMC has also submitted the Actual Revenue Billed Including Electricity Tax amount. Therefore, the total Revenue Billed as per Form 2.1 (a)

including E-tax is submitted as Rs.1107.88 Crore and Rs 1055.63 Crore without E. Tax. Against the same, the revenue collected without considering LPSC & E. Tax is Rs.1104.61 crore.

2.4 Distribution Loss

2.4.1 NDMC submits its Distribution Losses achieved against the losses approved by the Hon'ble Commission vide its Tariff Order for FY 2020-21 as below:

The Distribution loss have been calculated by the formula as given below:

*Distribution Loss = [(1- Total Energy Sales) / Net Power Available for Retail Sale] * 100*
where,

Total Energy Sales and Net Power Available for Retail Sale are in MUs.

Table 2-6: Distribution Loss for FY 2020-21

S. No.	Particulars	Approved in TO FY 2020-21	Actual
A	Energy Requirement / Procured (MU)	1218.68	1103.16
B	Energy Sales (MU)	1109.00	1010.19
C	Distribution Loss (MU)	109.68	92.96
D	Distribution Loss (%)	9.00%	8.43%

2.5 Incentive for Over achievement of Distribution Loss

NDMC has achieved distribution loss as 8.43% against the target of 9% and therefore eligible for incentive on account of over achievement of distribution loss targets. The Regulation 25 is reproduced below:

“Regulation 25 of DERC Business Plan Regulation, 2019

- (1) *The Distribution Loss target in terms of Regulation 4 (9) (a) of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for NDMC for the year 2020-21 is fixed as 9.00%.*
- (2) *The amount for Over achievement / Under achievement on account of Distribution Loss target shall be computed as per the formula specified in the Regulation 159 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Distribution Licensee.*
- (3) *Any financial impact due to Under achievement on account of Distribution Loss target by the distribution licensee for the relevant year, (i.e. Actual Loss > Loss target), shall be to the account of distribution licensee as specified in Regulation 161 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017*

(4) Any financial impact due to Over achievement on account of Distribution Loss target by the distribution licensee for the relevant year shall be shared between the Distribution Licensee and Consumers as follows:

- (i) in case actual Distribution Loss is between the loss target and loss target minus $[50\% * (\text{Previous Year Target} - \text{Current Year Target})]$ for the relevant year shall be shared in the ratio of 2/3rd to Consumers and 1/3rd to the Distribution Licensee;
- (ii) in case actual Distribution Loss is less than loss target minus $[50\% * (\text{Previous Year Target} - \text{Current Year Target})]$ for the relevant year shall be shared in the ratio of 1/3rd to Consumers and 2/3rd to the Distribution Licensee."

Based on Regulation 25 (4) the computation for incentive for over achievement of distribution loss is given in table below:

Table 2-7: Over achievement Incentive on account of reduction in Distribution Loss Level

Sr. No.	Particulars	As per Petitioner	Remarks
A	Billed Sales (MUs)	1010.19	Table 2-6
B	Actual Distribution Loss Level	8.43%	Table 2-6
C	Target Distribution Loss Level	9.00%	As per BPR
D	Actual Input @ Actual Distribution Loss Level	1103.16	Table 2-6
E	Desired Input at Target Distribution Loss Level	1110.10	$A/(1-C)$
F	Saving in Input (MU) due to lower Distribution Loss Level	6.95	$(E-D)$
G	Power Purchase Cost	7.27	Table 2-13
H	Total Over achievement Incentive	5.05	$F*G/10$
I	NDMC share - 2/3rd of Over achievement Incentive	3.37	$H*2/3$
J	Consumer Share of Incentive	1.68	$H*1/3$

2.6 Incentive for Over achievement of Collection Efficiency

NDMC has achieved collection efficiency @ 104.64% against the target of 99.50% and therefore eligible for incentive on account of over achievement in Collection targets. The Regulation 26 is reproduced below:

"Regulation 26 of DERC Business Plan Regulation, 2019

- (1) The targets for Collection Efficiency for FY 2020-21 to FY 2022-23 of the Distribution Licensee shall be 99.50%.

- (2) The financial impact on account of Collection Efficiency target shall be computed as per the formula specified in Regulation 163 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Distribution Licensee.
- (3) The financial impact on account of over-achievement in terms of Regulation 164 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Distribution Licensee, from 99.50% to 100% shall be shared equally between Consumers and the Distribution Licensees."

Based on Regulation 26 (3) the computation for incentive for over achievement of collection efficiency is given in table below:

Table 2-8: Computation of Collection Efficiency and Incentive for FY 2020-21

Sr. No.	Particulars	UoM	As per Petitioner	Remarks
A	Amount Billed	(Rs. Cr.)	1055.63	Table 2-5
B	Amount Collected	(Rs. Cr.)	1104.61	Table 2-5
D	Collection Efficiency	%	104.64%	Table 2-5
E	Target Collection Efficiency	%	99.50%	As per BPR, 2019
F	99.50% of Amount Billed	(Rs. Cr.)	1050.36	A*E
G	Amount of Collection over and above 99.50% target		5.28	A-F
H	Sharing Incentive			
(i)	DISCOM's (50% up to 100%)		2.64	G/2
(ii)	DISCOM's 100% beyond 100% collection		48.98	B-A
(iii)	TOTAL INCENTIVE to NDMC		51.62	(i)+ (ii)
(iv)	Consumers (50% of collection beyond 99.50% but up to 100% collection)		2.64	G/2

2.7 Computation of Revenue Available for FY 2020-21

The computation of net revenue available after adjusting incentive on account of Over achievement in distribution loss and Over achievement in collection efficiency is given in table below:

Table 2-9: Computation of Revenue Available for FY 2020-21

S. No.	Particulars	Collection	Remark
A	Total Collection*	1104.61	Table 2-5
B	Less – Over achievement Incentive towards lower Distribution Loss Level (NDMC's share)	3.37	Table 2-7
C	Less - Overachievement Incentive towards collection efficiency (NDMC's share)	51.62	Table 2-8
D	Collection available towards ARR	1049.63	(A-B-C)

* Total Revenue Collection in FY 2020-21 was Rs 1161.40 crore which included E. Tax of Rs 52.24 crore and LPSC of Rs 4.55 crore. However, for the purpose of collection efficiency and incentive E. Tax of Rs 52.24 crore and LPSC of 4.55 crore have been excluded.

2.8 Energy Allocation & Requirement

2.8.1 Approved Energy Allocation

The Hon'ble Commission approved the following energy available for 2020-21:

Table 2-10: Energy available to Petitioner from Central and State Generating stations and other Generating Stations approved for FY 2020-21

S. No.	Power Plant	Total Installed Capacity (MW)	Firm % Share FY 2020-21	Capacity in MW	Energy in MU
1	Dadri TPS*	840	16.53%	125	305
2	PPS – I	330	30.30%	100	430
3	PPS – III**	1,371	19.12%	210	401
4	DMSWSL	24	5.09%	1	6
5	Total			436	1141

* Share of Delhi from Dadri TPS is 90% of 840 MW, which comes to 756 MW. NDMC's share was 16.53% of 756 MW till 30th November 2020 i.e. till validity of PPA. From 1st December 2020, NDMC's share in Dadri TPS is NIL in view of the expiry of PPA.

** For PPS-III, the capacity allocated for Delhi is 80% of the installed capacity (i.e. 1371 MW x 80% = 1096.80 MW). Balance 20% is allocated to Punjab & Haryana. NDMC's share @19.12% has been worked out on 1096.80 MW, which comes to 210 MW. The share of NDMC till 31st August 2020 was 9.12%, which was increased to 19.12% from 1st September 2020.

2.9 Power Purchase Quantum

2.9.1 NDMC has allocations of power from Dadri TPS and Pragati Stations. The Hon'ble Commission is requested to allow the actual gross power purchase quantum as shown in the table below:

Table 2-11: Power Purchase Quantum for FY 2020-21 (MUs)

S. No.	Particulars	Approved in TO FY 2020-21	Actual
A	Power Purchase from Central Station Dadri	305.00	29.00
B	Power Purchase from Short Term Small Hydro		87.21
C	Total Interstate: Power Purchase	305.00	116.21
D	Interstate Transmission Losses	-6.00	-1.92
E	Net Power Purchase from Central stations and small Hydro	299.00	114.28
F	Power Purchase from State Generating Stations (Excluding RE)	830.00	750.54
G	Power Purchase from DMSWSL	6.15	6.83
H	Power Purchase from IEX		156.47
I	Power Available at Delhi Periphery	1135.15	1028.13
J	Intra-State Transmission Loss	-10.00	-9.06
K	Power Available at NDMC Periphery	1125.15	1019.07
L	Power Purchase from Short Term Large Hydro at NDMC Periphery	0.00	223.90
M	Power Purchase from UI		8.69
N	Solar Power from Grid Connected Plant		1.73
O	Total	1125.15	1253.39
P	Sale of Power (IEX) & UI		150.23
Q	Net Power Available for Retail Sale	1125.15	1103.16

2.9.2 In FY 2020-21, NDMC has drawn long-term power from Central Stations viz. Dadri TPS only till 30th November, 2020 as the Power Purchase Agreement (PPA) has expired on 30th November, 2020 and therefore no power was scheduled & purchased from 1st December, 2021 onwards.

- 2.9.3 In FY 2020-21, NDMC has drawn long-term power from Intra state generating stations viz. Pragati Power Stations (Pragati-I and PPS-III CCGT Bawana). NDMC has also sourced power from Renewable Waste to energy source DMSWSL. DERC vide its Tariff order dated 28.08.2020 published on 18.10.2020 increased the allocation from PPS-III from 9.12% to 19.12% w e f 1st September, 2020 till 31st March, 2021. However, the same was not acceptable to NDMC accordingly a Review Petition was filed with DERC. However, the Review Petition was rejected by DERC. Thereafter, NDMC have filed an Appeal in the Hon'ble APTEL which is yet to be heard.
- 2.9.4 In FY 2020-21, NDMC has also sourced 1.73 MUs from solar power from grid connected solar PV plants and 8.12 MUs from net metering solar installations.
- 2.9.5 The average inter-state transmission losses and intra-state losses are at 1.65% and 0.88% respectively. The petitioner requests the Hon'ble Commission to kindly consider the actual value of such losses.
- 2.9.6 NDMC submits that currently no payments are being made towards solar power procured from the generating units / net metering units located within licensed area. However, the Petitioner requests the Hon'ble Commission to allow recovery of payments made towards such purchases as and when actual payments are made towards the same in future year (s).
- 2.9.7 The details of actual power drawn from each source of generation is provided in the appropriate forms specified by the Hon'ble Commission. The Petitioner requests the Hon'ble Commission to kindly consider the actual purchase and approve the same for the purpose of truing up.

2.10 Cost of Power Purchase

- 2.10.1 Power Purchase Cost as approved by the Hon'ble Commission and Actual Power Purchase Cost for FY 2020-21 was as under:

Table 2-12: Total Power Purchase Cost Approved for FY 2020-21 (Rs. Crore)

S. No.	Particulars	MU	Approved in Tariff Order FY 2020-21 (Rs. Crore)	Avg. Rate (Rs/kWh)
A	Total Energy available from station outside Delhi	305	189.17	6.20
B	Interstate Transmission Losses & Charges Net of Special Rebate	6	32.19	
C	Energy available from stations based in Delhi	836	453.78	5.43
D	Energy available at State Transmission Periphery	1135	675.14	5.95
E	Intra-State Transmission Losses & Charges	10	46.51	

S. No.	Particulars	MU	Approved in Tariff Order FY 2020-21 (Rs. Crore)	Avg. Rate (Rs./kWh)
F	Power Purchase Rebate		13.33	
G	Power Available to DISCOM	1125	708.32	6.30
H	Energy Sales	1109		
I	Distribution Losses	110		
J	Net Energy Requirement	1218		
K	Surplus / Gap Energy	-94	-21.08	2.25
L	REC Purchase Cost		10.54	
M	Power Purchase Cost	1218	739.94	6.07
N	Special Rebate provided by MoP (GENCOs)		2.80	
O	Net Power Purchase Cost	1218	737.14	6.05

2.11 Actual Cost of Power Purchase

NDMC submits the cost of long-term & Short-Term power purchase for the FY 2020-21 as below and prays to the Hon'ble Commission to approve the cost as per table below:

Table 2-13: Total Cost of Power Purchase FY 2020-21

S. No.	Particulars	Power Purchase (MU)	Power Purchase Cost (Rs. Crore)	Average Rate (Rs./kWh)
A	Dadri TPS	29.00	103.77	35.78
B	Pragati-I	438.90	228.15	5.20
C	Pragati-III - CCGT Bawana	311.63	240.85	7.73
D	DMSWSL	6.83	4.80	7.03
E	Solar Power – Installed by NDMC on Ownership basis, Through Developer Mode Grid Connected	1.73	0.00	0.00
F	Total	788.10	577.57	7.33
G	Short Term: Power Purchase	476.26	196.68	4.13
H	Inter State Transmission Loss / Charges	-1.92	23.77	
I	Intra State Transmission Loss / Charges	-9.05	34.36	
J	OA Charges for Small Hydro		5.32	

S. No.	Particulars	Power Purchase (MU)	Power Purchase Cost (Rs. Crore)	Average Rate (Rs./kWh)
K	STOA Charges for large Hydro		4.74	
L	Power Purchase Cost with ST & Transmission Charges	1253.39	842.43	6.72
M	Less Timely Payment Rebate in Power Purchase	0.00	15.85	0.00
N	Net Power Purchase cost after Rebate	1253.39	826.58	6.59
O	Less: Short Term Sale of Power	150.23	32.64	2.17
P	Total Power Purchase	1103.16	793.94	7.20

2.11.1 NDMC had Power Purchase Agreement for Dadri Project with NTPC up to 30th November 2020. During the validity of PPA. NTPC has raised total bills for Rs.129,23,96,290 but NDMC has paid Rs.103,76,71,370. An amount of Rs.25,47,24,920 was not payable by NDMC and hence not considered in power purchase cost.

2.11.2 NDMC is also not making payment of fixed charges to PPS III for enhanced allocation from 9.12% to 19.12% w.e.f. 1st September to 31st March 2021 vide DERC order dated 28.08.2020 as NDMC has filed an appeal with Hon'ble APTEL which is under consideration. PPS-III have submitted bills for fixed charges for enhanced allocation amounting to Rs 240,85,17,220 and payment was made for Rs. 179,72,52,764 after deducting Rs. 61,12,64,456 (fixed charges for 10% additional. allocation) However, NDMC have considered the billed amount in power purchase cost.

2.11.3 **PGCIL & NRLDC:** In FY 2020-21, NDMC has drawn long-term power from Central Stations viz. Dadri TPS only till 30th November, 2020 as the Power Purchase Agreement (PPA) has expired on 30th November, 2020 and therefore no power was scheduled & purchased from 1st December, 2021 onwards. Accordingly, payment of POC and Non POC Charges to PGCIL for Rs.12,59,30,012 and NRLDC for Rs. 1,55,882 is not made for the period from December,2020 to March, 2021 and also not considered in power purchase cost.

DTL & SLDC: Total bills raised by DTL & SLDC, Delhi during FY 2020-21 were Rs.40,55,80,895 crore. This included bills for STU wheeling charges & SLDC Charges amounting to Rs.4,95,31,729 for enhanced the allocation of power from PPS-III from 9.12% to 19.12% w.e.f. 1st September to 31st March 2021 and STU wheeling charges & SLDC Charges amounting to Rs. 6,19,82,935 for Dadri TPS from 1st December 2020 to 31st March 2021. Bills amounting to Rs. 11,15,14,664 in both the above cases have been withheld for the reasons already stated in the forgoing paragraphs. However, DTL & SLDC charges for PPS-III power have been considered on billed basis in the ARR.



2.12 Cost of Power Purchased from Bilateral Source**Table 2-14: Cost of Power Purchase from Bilateral Sources FY 2020-21**

S. No.	Particulars	Power Purchase (MU)	Power Purchase Cost (Rs. Crore)	Average Rate (Rs./kWh)
A	Small Hydro	87.21	40.64	4.66
1	KPCPL	87.21	40.64	4.66
B	Large Hydro	223.90	91.94	4.11
1	ADHPL	129.10	53.08	4.11
2	MPCL	12.55	6.26	4.99
3	GoHP	34.19	13.66	3.99
4	SAINJ-HEP	48.06	18.94	3.94
C	Total (A+B)	311.10	132.57	4.26

2.13 Short Term Power Purchase

2.13.1 NDMC prays to the Hon'ble Commission to approve the cost of Short-Term Power Purchase as below:

Table 2-15: Short Term Power Purchase for FY 2020-21

S. No.	Particulars	Power Quantum (MUs)	Amount (Rs. Crore)	Average Rate (Rs./kWh)
1	Bilateral Hydro – Small	87.21	40.64	4.66
2	Bilateral Hydro – Large	223.90	91.94	4.11
3	UI	8.69	4.64	5.34
4	IEX	156.47	59.47	3.80
	Total Purchases	476.26	196.68	4.13

Short term Power was purchased from small Hydro project (Renewable energy source) for the purpose of fulfilling the RPO requirements through PTC from Kanchenjunga Power Corporation Pvt. Ltd. (KPCPL) SHEP located at Himachal Pradesh vide letter no. PTC/MTFG/NDMC/5428 dated 30.03.2021.

Short term power was also purchased from Large Hydro power projects from the offers received against tender no PFC Consulting Limited/Short/19-20/115 due on 28.02.2020 through Reverse Bidding Route. The following LOA were issued on:

- (a) PTC India Ltd., New Delhi vide No D-141/EE (SLDC)/2020 dated 24.03.2020
- (b) Tata Power Trading Corporation Ltd., Noida vide No D-42/EE (SLDC)/2020 dated 24.03.2020.

2.14 Short Term Power Sale

NDMC prays to the Hon'ble Commission to approve the Revenue from Short Term Power Sale as per table below:

Table 2-16: Short Term Power Sale for FY 2020-21

S. No.	Particulars	Power Quantum (MUs)	Amount (Rs. Crore)	Average Rate (Rs./kWh)
1	UI	64.04	15.58	2.43
2	IEX	86.20	17.07	1.98
	Total Purchases	150.23	32.64	2.17

Consideration of Quantum of Power purchase and amount:

- a. **Bilateral Purchase of Small Hydro Project** - From Kanchenjunga Power Corporation Pvt. Ltd, (KPCPL), has been accounted for the FY 2020-21 based on the bills paid during the financial year.
- b. **Bilateral Purchase from Large Hydro Projects** - From Government of Himachal Pradesh (GoHP), AD Hydro Power Ltd (ADHPL), Malana Power Company Ltd. (MPCL) and Sainj HEP have been accounted for the FY 2020-21 based on the bills paid during the financial year.
- c. **Purchase / Sales through Indian Energy Exchange (IEX)** Exchange have been accounted for the FY 2020-21 based on the bills paid during the financial year.
- d. **IDT Purchases / Sales** – During this financial year no transactions were carried out with other Discoms.
- e. **UI Purchase / Sales** – NDMC has submitted the entire quantum of sales / purchases and corresponding amount realized / likely to be realized from such transactions on accrual basis for FY 2020-21.
- f. **Solar RPO Obligation** – NDMC is procuring Solar Power from Solar Plant Installed by NDMC on Ownership basis, through Developer Mode, IEX and Net metering / Grid Connected within its licensed area through net metering.

2.15 The RPO requirement

2.15.1 Renewable Purchase Obligation as per DERC Business Plan Regulations. 2019 is as under:

Table 2-17: Renewable Power Purchased Obligation

S. No.	Particulars		FY2020-21	FY2021-22	FY 2022-23
1	Non-Solar	Other Non-Solar	10.25%	10.25%	10.50%
		HPO	0.00%	0.18%	0.35%
2	Solar		7.25%	8.75%	10.50%
TOTAL			17.50%	19.18%	21.35%

2.15.2 The energy Purchased from Non-Solar and Solar sources are as under:

Table 2-18: Renewable Power Purchase and Net metering FY 2020-21

S No	Particulars	Energy in MU
A	SOLAR	
1	From IEX (GTAM)	13.66
2	From Grid connected solar projects	1.73
3	Net Metering	8.12
	TOTAL SOLAR POWER	23.51
B	Other	
1	DMSWSL	6.83
2	Small Hydro	87.21
	TOTAL OTHER POWER	94.04

2.15.3 The renewable purchase obligation fulfilled during FY 2020-21 is as below:

Table 2-19: RPO for FY 2020-21

RPO	Approved in TO FY 2020-21			Actual			Shortfall / Excess
Source	% of Total Energy Sales	Total Sales (MU)	RE to be Procured in MUs	Total Sale excluding Large Hydro* (MUs)	MUs to be Procured	MUs procured during the year	
Solar	7.25%	1109	80.40	786.29	57.01	23.50	-33.51
Other	10.25%		113.67		80.59	94.03	13.44
Total			194.08		136.42	117.54	-20.07

*in consonance with MoP, GOI Order No. 23/03/2016-R&R dated 14th June 2018 and Order No. 23/03/2016-R&R dated 29th January 2021.

Note: Source of Power Procurement: 1) Solar: Grid Connected, Net Metering, 2) Others: DMSWSL & KPCPL.

2.16 Total Power Purchase Cost for True-up

NDMC submits the trued-up power purchase cost for FY 2020-21 as below:

Table 2-20: Total Power Purchase Cost including Transmission & SLDC Charges

S. No.	Particulars	Power Quantum	Amount (Rs. Crore)
A	Gross Power Purchase Cost excluding Waste to Energy, Short Term Purchase and Transmission Charges	779.54	572.77
B	Waste to Energy	6.83	4.80
C	Total Long Term	786.36	577.57
D	Short Term Purchase	476.26	196.68
E	Solar Power – Grid Connected	1.73	0.00
F	Inter State Transmission Losses / Charges	-1.92	23.77
G	Intra State Transmission Losses / Charges	-9.05	34.36
H	OA Charges for Small Hydro		5.32
I	STOA Charges for large Hydro		4.74

S. No.	Particulars	Power Quantum	Amount (Rs. Crore)
J	Gross Power Purchase	1253.39	842.43
K	Less: Rebate on Power Purchase	0.00	15.02
L	Less: Total Rebate on Transmission	0.00	0.83
M	Less: Sale of Surplus Power	150.23	32.64
N	Net Power Purchase	1103.16	793.94
O	Average Cost Per Unit		7.20

2.16.1 NDMC prays to the Hon'ble Commission to allow the power purchase cost of **Rs. 793.94 Cr.**

2.17 Operation and Maintenance Expenses

2.17.1 As per DERC (Business Plan) Regulations, 2019 clause no 23 (1) Normative Operation and Maintenance expenses in terms of Regulation 4 (3) and Regulation 92 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Distribution Licensees shall be as follows:

Table 2-21: Normative O & M Expenses for NDMC for the Control Period

S. No.	Particulars	Units	FY 2020-21	FY 2021-22	FY 2022-23
1	66 kV Line	Ckt KM	3.079	3.197	3.320
2	33 kV Line	Ckt KM	3.079	3.197	3.320
3	11kV Line	Ckt KM	0.935	0.971	1.008
4	LT Line system	Ckt KM	7.338	7.620	7.912
5	66/11 kV Grid S/s	MVA	0.954	0.991	1.029
6	33/11 kV Grid S/s	MVA	0.954	0.991	1.029
7	11/0.415 kV DT	MVA	1.489	1.546	1.605

2.17.2 The approved O & M expenses for FY 2020-21 vide order dated 28 08 2020 is given in table below:



Table 2-22: Expenses Approved for FY 2020-21

S. No.	Particulars	Units	Approved FY 2020-21	Rate in Lakh	Amount Rs. in Cr.
1	66 kV Line	Ckt KM	225.00	3.079	6.93
2	33 kV Line	Ckt KM			
3	11kV Line	Ckt KM	1043.00	0.935	9.76
4	LT Line system	Ckt KM	2705.00	7.338	198.53
5	66/11 kV Grid S/s	MVA	1460.00	0.954	13.93
6	33/11 kV Grid S/s	MVA			
7	11/0.415 kV DT	MVA	777.00	1.489	11.57
Total					240.72

2.17.3 The petitioner has filed a review petition 10/2021 in January 2021 against the Tariff Order dated 28/08/2020, for reconsideration of line length & MVA capacity and O&M Expenses for the FY 2018-19, which is under consideration of the Hon'ble Commission.

2.17.4 The Commission asked some clarification regarding details of line length and MVA capacity vide their letter No F11/(1832)/DERC/2020-21/6992/2524 dated 11.02.2021 and the same were submitted to DERC vide NDMC Letter No. D-43/Con Power /2021 dated 27th May 2021 sent by mail dated 1st June, 2021. In this submission, all the details of division wise line length and MVA capacity were submitted as per format received vide Commission's letter dated 11th February 2021.

2.17.5 The revised Network details as on 31.03.2020 is given in table below:

Table 2-23: Revised Actual Network Details for FY 2019-20

S. No.	ITEM	Unit	Total as on 31/3 /2020
1	66 kV Line	KMs	55.213
2	33 kV Line	KMs	169.012
3	11 kV HT Line	KMs	1045.080
4	LT System	KMs	4253.640
5	66/11 kV Grid S/s	MVA	490.000
6	33/11 kV Grid S/s	MVA	1006.000
7	11/0.415 kV DT	MVA	803.930

2.17.6 From the above table it is evident that there is a difference in line length provisionally approved by Hon'ble Commission and at actual network as shown in above table.

2.18 Actual O&M Expenses

The operation and maintenance expenses for length of lines and Transformer MVA capacity for the year FY 2020-21 is given in table below:

Table 2-24: Operation and Maintenance Actual Expenses FY 2020-21

S. No.	Particulars	Units	As on 31 03 2020	Addition During FY2020-21	As on 31 03 2021	Rate in Lakh	Amt in Lakh	Rs. Cr
1	66 kV Line	Ckt KM	55.21	0.49	55.71	3.079	171.52	1.72
2	33 kV Line	Ckt KM	169.01	6.29	175.30	3.079	539.76	5.40
3	11kV Line	Ckt KM	1045.08	4.24	1049.32	0.935	981.11	9.81
4	LT Line system	Ckt KM	4253.64	20.05	4273.69	7.338	31360.33	313.60
5	66/11 kV Grid S/s	MVA	490.00	0.00	490.00	0.954	467.46	4.67
6	33/11 kV Grid S/s	MVA	1006.00	0.00	1006.00	0.954	959.72	9.60
7	11/0.415 kV DT	MVA	803.93	41.00	844.93	1.489	1258.10	12.58
TOTAL								357.38

2.19 Non-Tariff Income

2.19.1 NDMC has considered the non-tariff income from the Late Payment Surcharge (LPSC) at actual of FY 2020-21 and given in table below:

Table 2-25: Non-Tariff Income for FY 2020-21 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Non-Tariff income	7.9	4.55

2.20 Capital Expenditure and Capitalization

2.20.1 NDMC had appointed SBI Caps as external consultant to determine the actual assets and accounts of the Electricity Distribution Business Unit. Based on capitalization of assets, NDMC submits the following details for capital Expenditure and Capitalization for FY2020-21.

2.21 Capitalization

During the year 2020-21 the capitalization has been considered for normal construction activity as well as for system strengthening under IPDS.as Rs 80.19 Crore. Scheme wise details are furnished in Form F-9.

Table 2-26: Capitalization during 2020-21

S. No.	Particulars	Amount capitalised (Rs. In Cr)
1	Other schemes	9.10
2	IPDS - Strengthening of Transmission and Distribution Network	71.09
	Total Capitalization net of Grant	80.19

NOTE ON IPDS

In December 2014 Ministry of Power, Government of India had launched Integrated Power Distribution Schemes (IPDS), 60% to be funded by Mop, GOI and for this purpose, Power Finance Corporation was appointed as Nodal Agency.

On the basis of report of Sh. Y. P Singh Committee on Electrical Systems, Electric Department -II had prepared a Detailed Project Report for seeking Grant from Ministry of Power, Govt. of India under Integrated Power Distribution Scheme. Detailed project Report included following different packages: -

1. Package-1 - Strengthening of sub-Transmission and Distribution network
2. Package-2 - Replacement of Sick/Obsolete Cables
3. Package-3 - Implementation of AMI, IT/OT & SCADA

NDMC vide Resolution 17 (B-05) dated 28/4/15 accorded administrative approval for submission of Detailed Project Report amounting to Rs.528.70 Cr with sanctioning of 211.48 Crores expenditure for strengthening of Sub-transmission and Distribution Network under IPDS Scheme for approval to Ministry of Power in its 7th meeting held on 28.04.2016 approved Rs.196.62 Cr as Project Cost for NDMC area.

With the approval of competent authority NDMC awarded following works:

Package	Description	Awarded Amount (in Cr.)	Status of PFC/NDMC Fund
Package-I	Strengthening of Sub-Transmission and Distribution network	180.39	PFC Grant: 60% - Rs. 108 Cr. NDMC Own Fund: 40% - Rs. 72 Cr.

Package	Description	Awarded Amount (in Cr.)	Status of PFC/NDMC Fund
Package-II	Supplying & laying underground 11 kV Cables of size 400 Sq mm. and L.T. Cables of Various Sizes in NDMC area	47.30	NDMC own Fund: 100%
Package-III	Implementation of Advanced Metering Infrastructure (AMI)IT & SCADA/DMS	Assigned on nomination basis to M/s EESL on OPEX model	EESL agreed to infuse the fund and responsible for built / operate & manage the Infrastructure and NDMC shall monetize its investment on per month annuity basis over a period of 8 years, by NDMC own fund

Status of Work

Package-I Work on Package-1 is completed in FY 2020 -21- Amount Rs.177. 72 Crore

Package-II Work completed in June, 2021 and will be capitalized in FY 2021-22.

Package-III Work in Progress

Capitalization Considered in IPDS equivalent to 40% NDMC Share – Rs. 71.09 Crore

2.21.1 Gross Fixed Assets**Table 2-27: Gross Fixed Assets for FY 2020-21 (Rs. Crore)**

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Opening GFA	636.94	1012.55
2	Capitalization	39.50	80.19
3	Decapitalization	0.00	0.00
4	Closing GFA	676.44	1092.74
5	Average GFA	656.69	1052.65

2.22 Consumer Contribution

2.22.1 NDMC has considered consumer contribution for FY 2020-21 as per table given below.

Table 2-28: Consumer Contribution for FY 2020-21 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Opening Consumer Contribution	20.14	12.67
2	Addition of Consumer Contribution	8.34	0.91
3	Closing Consumer Contribution	28.48	13.58
4	Average Consumer Contribution	24.31	13.13

2.23 Depreciation

2.23.1 Depreciation is charged on the basis of straight-line method, on the average Gross Fixed Assets at the beginning and at the end of each year. The depreciation is based on the original cost, estimated life and residual life. Depreciation has been computed at 3.60% of average GFA during the year. The table below summarizes the depreciation claimed by NDMC.

Table 2-29: Depreciation for FY 2020-21 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Opening GFA	636.94	1012.55
2	Addition during the year	39.50	80.19
3	Deletion during the year	0.00	0.00
4	Closing Balance of GFA	676.44	1092.74
5	Average Balance of GFA	656.69	1052.65
6	Average Consumer Contribution	24.31	13.13
7	Average assets Net of Consumer Contribution	632.38	1039.52
8	Average Depreciation Rate	3.60%	3.60%
9	Depreciation	22.77	37.42

2.24 Cumulative Depreciation

2.24.1 NDMC submits the accumulated depreciation till FY 2020-21 as below:

Table 2-30: Cumulative Depreciation till FY 2020-21 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Opening Balance of Cumulative Depreciation	469.21	628.53
2	Depreciation during the year FY 2020-21	22.77	37.42
3	Closing Balance of Cumulative Depreciation	491.98	665.95

2.25 Utilization of Depreciation

2.25.1 NDMC submits to the Hon'ble Commission that no portion of the depreciation has been used to repay debt in FY 2020-21.

Table 2-31: Utilization of Depreciation for FY 2020-21

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Depreciation for FY 2020-21	22.77	37.42
2	Depreciation utilized for Debt repayment in FY 2020-21	0	0

2.26 Working Capital

2.26.1 NDMC has calculated the Working Capital requirements on normative basis as stipulated by the methodology specified in the DERC Wheeling and Retail Tariff Regulations, 2017. NDMC requests the Hon'ble Commission to approve the Working Capital Requirements as per the following:

Table 2-32: Determination of Working Capital for FY 2020-21 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Aggregate Revenue Requirement (ARR)	1017.16	1236.25
2	Receivables Equivalent to 2 months	169.53	206.94
3	Net Power Purchase Expense (Including Transmission, SLDC, RPO & normative rebate)	737.14	793.94
4	1/12th of Power Purchase Expense	61.43	66.16
5	Total Working Capital	108.10	140.78
6	Less: Opening Balance of Working Capital	115.00	118.34
7	Change in Working Capital	-6.90	22.44



2.27 Regulated Rate Base

2.27.1 The Regulated Rate Base has been computed below for FY 2020-21 based on the DERC Tariff Regulations 2017 and submitted for the approval of the Hon'ble Commission.

Table 2-33: Regulated Rate Base for FY 2020-21 (Rs. Crore)

S. No.	Description	Approved in FY 2020-21	Actual
1	RRB - Base Year		
A	Opening Balance of GFA	636.94	1012.55
B	Opening Balance of Working Capital	115.00	118.34
C	Opening Balance of Accumulated Depreciation	469.21	628.53
D	Opening balance of Accumulated Consumer Contribution (in proportion of OCFA to total OCFA + CWIP + Stores)	20.14	12.67
E	(A+B)- (C+D) i.e., RRB opening	262.59	489.69
F	RRB - for the year		
G	Investment capitalised during the year	39.50	80.19
H	Depreciation for the year	22.77	37.42
I	Consumer Contribution, Grants, etc. for the year	8.34	0.91
J	Fixed Asset Retirement / Decapitalisation during the year	0.00	0.00
K	Changes in Capital Investment	8.39	41.85
L	Change in Working Capital	- 6.90	22.44
M	RRB Closing (E+K+L)	264.09	553.98
N	Regulated Rate Base (RRB) (i) (E+K/2+L)	259.89	533.05

2.28 Return on Capital Employed

2.28.1 NDMC submits before the Hon'ble Commission that capital expenditure incurred by it for creation of assets has been majorly incurred through its budgetary support and internal accruals. It has not used any type of loan for creation of assets. NDMC has considered normative debt-equity ratio of 70:30 for calculating RoCE. The Rate of Return on Equity for the first control period is kept at 16% as per the DERC Wheeling and Retail Tariff Regulations, 2017. Rate of Return on the Debt is considered as 8% as per order. Detailed calculation of Weighted average cost of capital (WACC) leading up to estimation of RoCE is shown in the table below:



Table 2-34: Return on Capital Employed for FY 2020-21 (Rs. Crore)

S. No.	Description	Approved in FY 2020-21	Actual
A	RRBi	259.89	533.05
B	Opening Equity for Capitalization (Limited to 30%)	44.28	111.41
C	Closing Equity Limiting to 30% of net Capitalization	46.80	123.96
D	Average Equity for Capitalization (Limited to 30%)	45.54	117.68
E	Opening Debt at 70% of Net Capitalization	103.31	259.95
F	Closing Debt @70% of net Capitalization	109.19	289.24
G	Average Debt @70% of net Capitalization	106.25	274.59
H	Debt at 100% of Working Capital	108.10	140.78
I	Total Debt (G+H)	214.35	414.72
J	Rate of Return on Equity	16.00%	16.00%
K	Rate of Debt (%) on Capitalization	8.00%	8.00%
L	Rate of Debt (%) on Working Capital	8.00%	8.00%
M	Rate of Interest on Debt (%)	8.00%	8.00%
N	Weighted Average Cost of Capital (WACC) (%)	9.40%	9.77%
O	Return on Capital Employed (ROCE)	24.43	52.06

2.29 Income Tax

2.29.1 The Petitioner submits that NDMC is exempted from paying the Income tax, therefore claim for such tax liabilities has not been proposed in the petition. However, the petitioner request Hon'ble Commission to allow tax liability in future in case liability arises.



2.30 Aggregate Revenue Requirement for Truing up for FY 2020-21

2.30.1 NDMC submits before the Hon'ble Commission the Aggregate Revenue Requirement for FY 2019-20.

Table 2-35: Trued up ARR for FY 2020-21 (Rs. Crore)

S. No.	Description	Approved in Tariff Order FY 2020-21	Actual
A	Net Power Purchase Cost	737.18	793.94
B	Net Operation & Maintenance (O&M)	240.72	357.38
C	Depreciation	22.77	37.42
E	RoCE (Including Interest on working capital)	24.43	52.06
F	Income Tax	0.00	0.00
G	Less: Non-Tariff Income	-7.90	-4.55
H	Aggregate Revenue Requirement	1017.20	1236.25

2.30.2 The Hon'ble Commission is requested to approve and allow the Aggregate Revenue Requirement of Rs. 1236.25 Crore as presented above, as against the Approved Aggregate Revenue Requirement of Rs. 1017.20 Crore.

2.31 Revenue Gap / Surplus

2.31.1 The overall gap based on the actual expenses and revenue during FY 2020-21 is Rs.186.62 Crore. This may please be added in the ARR for FY 2022-23. The same is provided in the table below:

Table 2-36: Revenue Gap / Surplus for FY 2020-21 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2020-21	Actual
1	Aggregate Revenue Requirement, FY 2019-20	1017.20	1236.25
2	Revenue Available Towards ARR	1037.74	1049.63
3	Revenue (Gap) / Surplus	20.54	(186.62)

2.32 Ratio of Allocation of ARR Into Wheeling & Retail Supply**2.32.1 Allocation of ARR for Retail Supply for FY 2020-21****Table 2-37: Allocation of ARR for Retail Supply for FY 2020-21**

Sr. No.	Particulars	Ratio	Approved in Tariff Order FY 2020-21	Actual
1	Cost of Power Purchase	100%	737.18	793.94
2	Operation & Maintenance Costs	38%	91.47	135.80
3	Depreciation (including AAD)	23%	5.24	8.61
4	Return on Capital Employed	28%	6.84	14.58
5	Income Tax	28%	0.00	0.00
6	Non-Tariff Income	60%	-4.74	-2.73
7	ARR for Retail Business		835.99	950.20

2.32.2 Allocation of ARR for Wheeling for FY 2020-21.**Table 2-38: Allocation of ARR for Wheeling for FY 2020-21**

Sr. No.	Particulars	Ratio	Approved in Tariff Order FY 2020-21	Actual
1	Operation & Maintenance Costs	62%	149.24	221.58
2	Depreciation (including AAD)	77%	17.53	28.81
3	Return on Capital Employed	72%	17.59	37.48
4	Income Tax	72%	0.00	0.00
5	Non-Tariff Income	40%	-3.16	-1.82
6	ARR for Wheeling Business		181.21	286.05

3 ARR FOR FY 2021-22

The Petitioner submits that for the FY 2021-22, it has not proposed any change from the ARR approved by the Hon'ble Commission. The energy sales in the NDMC licensed area have almost been stagnant and therefore, the Petitioner proposes to approach the Hon'ble Commission at the time of final true-up for FY 2021-22. The Petitioner will submit the actual sales and revenue earned during the year and a final true-up may be allowed by the Hon'ble Commission.

Accordingly, the approved ARR for 2021-22 is detailed in the following paragraphs:

3.1 Energy Sales

The Hon'ble Commission approved the following energy sales for 2021-22:

Table 3-1: Category-wise Energy Sales approved by the Commission for FY 2021-22 (MU)

Sr. No.	Category	Petitioner Submission	Commission Approved
1	Domestic	224.50	262.55
2	Non-domestic and Mixed Load	1070.05	892.45
3	Small Industrial Power	0.03	0.02
4	Public Lighting	7.07	6.49
5	DMRC	40.97	41.43
6	Others*	14.57	14.82
Total		1357.19	1217.76

3.2 Revenue Estimate

The Hon'ble Commission approved the following revenue estimation for 2021-22:

Table 3-2: Revenue estimated by the commission for FY 2021-22 at the existing Tariff

(Rs. in Cr.)				
Sr. No.	Category	Fixed Charges	Energy Charges	Total Revenue
1	Domestic	23	123	146
2	Non-Domestic	166	790	956
3	Industrial	0.01	0.02	0.03

Sr. No.	Category	Fixed Charges	Energy Charges	Total Revenue
4	Agriculture & Mushroom	-	-	-
5	Public Utilities	3	30	33
6	DIAL	-	-	-
7	Advertisement and hoarding	-	-	-
8	Temporary	2	16	18
9	Charging Stations for E-Rickshaw / E-Vehicle on Single Delivery Point	-	-	-
10	Others*	-	-	-
11	Total	194	959	1153
12	Revenue @ 99.50% Collection Efficiency			1148

3.3 Distribution Loss and Collection Efficiency

The Hon'ble Commission approved the following distribution loss and collection efficiency for 2021-22:

Table 3-3: Distribution Loss target and collection efficiency for FY 2021-22 (%)

Particulars	Submission FY 2021-22	Approved FY 2021-22
Distribution Loss Target	9.50%	8.75%
Collection Efficiency	99.50%	99.50%

3.4 Energy Requirement

The Hon'ble Commission approved the following energy requirement for 2021-22:

Table 3-4: Energy Requirement for FY 2021-22

S. No.	Particulars	Approved FY 2021-22
	Energy Requirement	
1	Energy Sales (MU)	1217.76
2	Distribution Loss (%)	8.75%
3	Distribution Loss (MU)	116.77
4	Energy Required at Distribution Periphery (MU)	1334.53



3.5 Energy Availability

3.5.1 The Hon'ble Commission has revised the allocation from PPS-III, Bawana power project from 9.12% to 12.12 % w.e.f. 1st October, 2021.

Based on this increased allocation Hon'ble Commission approved the following energy availability for FY 2021-22.

Table 3-5: Energy available to Petitioner from Central and State Generating stations and other Generating Stations approved for FY 2021-22

Sr. No.	Power Generating Stations	Installed Capacity (MW)	NDMC Share (%)	NDMC (MW)	Energy Scheduled (MU)
1.	NCPP – DADRI	840	16.53%	0.00	0
2.	GTPS	90	4.94%	4.45	32
3.	Pragati -I	330	30.30%	99.99	419
4.	Pragati-III, Bawana	1371.2	12.12%	100.04	332
5.	MSW Bawana	24	5.09%	1.22	6
	Total			205.70	789

Energy from Gas Turbine (GT) station has not been scheduled as there is no Power Purchase Agreement (PPA) is signed till date.

The balance of energy requirement will be met from short term purchase of large Hydro power and small Hydro power from different projects through PTC India Limited and Tata Power Trading Company Ltd. including Teesta Urja Ltd.

3.6 Power Purchase Cost for Generating Stations

The Hon'ble Commission approved the following power purchase cost for 2021-22:

Table 3-6: Power Purchase Cost for various generating station for FY 2021-22

Sr. No.	Stations	Energy (MU)	Fixed Cost (Rs. Cr.)	Arrears (Rs. Cr.)	Variable Charges (Rs/ kWh)	Variable Cost (Rs. Cr.)	Total Charges (Rs. Cr.)	Avg. rate (Rs/kWh)
1	NCPP-DADRI	0	73.8	-	-	-	-	-
2	Gas Turbine	32	2.63	-	2.19	7.06	9.70	3.01
3	Pragati -I	419	46.31	-	6.27	262.59	308.91	7.38



Sr. No.	Stations	Energy (MU)	Fixed Cost (Rs. Cr.)	Arrears (Rs. Cr.)	Variable Charges (Rs/kWh)	Variable Cost (Rs. Cr.)	Total Charges (Rs. Cr.)	Avg. rate (Rs/kWh)
4	PRAGATI-III, BAWANA	332	111.28	5.60	1.78	59.07	175.95	5.30
5	MSW Bawana	6	0.00	-	7.03	4.24	4.24	7.03
6	Total	789	234.03	5.60		332.96	572.59	7.26

3.7 Renewable Power Purchase Obligation

The Hon'ble Commission approved the following RPO targets for 2021-22:

Table 3-7: Targets for Renewable Power Purchase Obligation

Sr. No.	Particulars	FY 2021-22
A	Solar	8.75%
B	Non-Solar	10.25%
C	HPO	0.18%
D	Total	19.18%

The Hon'ble Commission approved the Energy requirement for RPO for 2021-22:

Table 3-8: Procurement from Renewable Energy under RPO

Power Source	Approved Energy Sales (net of the Hydro Power purchase) (MU)	% of Total approved energy sales in Regulations	Renewable Energy to be Procured (MU)
Solar	1217.76	8.75%	106.55
Non-Solar		10.25%	124.82
HPO		0.18%	2.19
Total		19.18%	233.57



The Hon'ble Commission approved the following Power Purchase Cost for 2021-22:

Table 3-9: Approved: Power Purchase Cost towards RPO compliance

Sr. No.	Sources of Renewable Energy	Quantity to be purchased (MU)	Rate (Rs/kWh)	Total Cost (Rs. Cr.)
SOLAR				
1	Solar REC to be procured	106.55	0.56	5.97
NON-SOLAR				
2	MSW Bawana	6.03	7.03	4.24
3	Balance Non-Solar RECs to be purchased	118.79	0.56	6.65
4	Non-Solar Sub Total	124.82		10.89
TOTAL SOLAR & NON-SOLAR		231.37		16.86
HPO		2.19	7.26	1.59
TOTAL RPO		233.57		18.45

3.8 Transmission Losses and Charges

The Hon'ble Commission has approved the following Interstate and Intra state transmission loss and charges for purchase of power:

Table 3-10: Approved: Inter-State and Intra-State Transmission Losses and Charges

Sr. No.	Particulars	Approved FY 2021-22
A	Transmission losses (MU)	
1	Inter-State Transmission (PGCIL)	0.000
2	Intra-State Transmission (DTL)	6.82
	Total Transmission Losses (MU)	6.82
B	Transmission Charges (Rs Crore)	
1	Inter-State Transmission (PGCIL)	45.12
2	Intra-State Transmission (DTL)	46.97
3	Other Transmission Charges	0.00
4	SLDC Charges	0.44
C	Total Transmission Charges (Rs. Cr.)	92.52

3.9 Energy Availability & Balance

The Hon'ble Commission has approved the following Energy balance for FY 2021-22

Table 3-11: Approved: Energy Balance for FY 2021-22

Sr. No.	Particulars	Unit	FY 2021-22
Energy Availability			
1	Total energy available (Excluding SGS)	MU	0.00
2	Inter-State Transmission Losses	%	2.00%
		MU	0.00
3	Energy available from SGS excl. generation in own distribution network	MU	788.60
4	Energy available at State Transmission Periphery (1-2+3)	MU	788.60
5	Intra-State Transmission Losses	%	0.92%
		MU	7.26
7	Net Energy available at the distribution periphery	MU	781.35
Energy Requirement			
8	Energy Sales	MU	1217.76
9	Distribution loss	%	8.75%
		MU	116.77
10	Energy requirement at distribution periphery	MU	1334.53
11	Surplus / (Gap) Energy (7-10)	MU	-553.18

3.10 Power Purchase Cost

The Hon'ble Commission approved the following power purchase cost for 2021-22:

Table 3-12: Power Purchase Cost for FY 2021-22

Sr. No.	Particulars	MU	Amount (Rs Cr.)	Avg. Rate (Rs/ kWh)
1	Power Purchase from stations outside Delhi	0.00	73.80	0.00
2	PGCIL Losses & Charges	0.00	45.12	
3	Power Purchase from SGS	788.60	498.80	6.33
4	Cost towards Renewable Energy Certificates (RECs) and HPO		14.21	
	Power Available at Delhi Periphery			
5	(Cost excluding RECs & HPO)	788.60	617.71	7.83
6	DTL Loss & Charges including SLDC charges	7.26	46.40	
7	Power Purchase Rebate based on FY 2019-20 Normative rebate on Rebatable Amount		14.70	
8	PPCL & IPGCL - Impact of Appeal No. 284 & 288/2015*		15.45	
9	Power Available to DISCOM	781.35	664.87	8.51
10	Sales	1217.76		
11	Distribution Loss	116.77		
12	Net Power Purchase cost including Transmission charges and RECs + HPO	1334.53	835.01	6.26
13	Net Surplus Power / (Shortfall)	(553.18)	(155.93)	2.82

3.11 Operation and Maintenance Expenses

The Hon'ble Commission approved the following O & M Expenses for 2021-22:



Table 3-13: Gross O&M Expenses approved for FY 2021-22 (Rs. Crore)

NETWORK	Network Capacity as on 1/4/2020	Projected Addition during FY 2020-21	Projected Addition during FY 2021-22	Closing Network Capacity	Norms as per BPR, 2017		Commission Approved		
					Units	Rate/Unit	Average Network Capacity	Unit Rate (Rs/Unit)	Rs. Cr.
66 kV Line (kms)	234	0	0	234	Rs. Lakh / Ckt. Km	3.197	234	3.197	7.48
33 kV Line (kms)					Rs. Lakh / Ckt. Km				
11 kV Line (kms)	1072	0	6	1078	Rs. Lakh / Ckt. Km	0.971	1075	0.971	10.44
LT Lines system (kms)	2729	0	0	2729	Rs. Lakh / Ckt. Km	7.62	2729	7.62	207.96
66/11 kV Grid sub-station (MVA)	1496	0	48	1544	Rs. Lakh / MVA	0.991	1520	0.991	15.06
33/11 kV Grid sub-station (MVA)					Rs. Lakh / MVA				
11/0.4 kV DT (MVA)	838	0	0	838	Rs. Lakh / MVA	1.546	838	1.546	12.96
Total	253.90								

3.12 Consumer Contribution

The Hon'ble Commission approved the following Consumer Contribution for 2021-22:

Table 3-14: Consumer Contribution (Rs. Crore)

Sr. No	Particulars	FY 2021-22	Ref.
A.	Closing Balance of Consumer contribution capitalized upto true up for FY 2018-19	11.8	TO Aug.2020
B.	Consumer Contribution projected during FY 2019-20	3.15	True-up of FY 2019-20
C.	Opening balance of Consumer Contribution already capitalized upto FY 2019-20	14.95	A+B
D.	Consumer Contribution Capitalized during FY 2020-21	8.34	TO Aug. 2020
E.	Opening balance of Consumer Contribution for FY 2021-22	23.29	C+D
F.	Consumer Contribution Capitalized during FY 2021-22	6.67	Para 4.78
G.	Closing Consumer Contribution and Grants	29.96	E+F
H.	Average Consumer Contribution and Grants	26.63	(E+G)/2

3.13 Gross Fixed Assets

The Hon'ble Commission approved the following GFA and depreciation for 2021-22:

Table 3-15: GFA considered for FY 2021-22 (Rs. Crore)

S. No.	Particulars	Approved FY 2021-22
1	Opening GFA	652.26
2	Capitalisation	31.6
3	Decapitalization	-
4	Closing GFA	683.86
5	Average GFA	668.06

3.14 Depreciation

The Hon'ble Commission approved depreciation and revised estimated for 2021-22:

Table 3-16: Depreciation considered for FY 2021-22 (Rs. Crore)

S. No.	Particulars	Approved FY 2021-22
A	Opening GFA	652.26
B	Net Additions to asset during the year	31.60
C	Deletion	0.00
D	Closing GFA	683.86
E	Average GFA	668.06
F	Opening Grant	23.29
G	Addition	6.67
H	Closing Grant	29.96
I	Average Grant	26.62
J	Depreciation rate	3.60%
K	Depreciation (E-I)*J	23.09

3.15 Working Capital

The Hon'ble Commission approved the following working capital for 2021-22:

Table 3-17: Working Capital for FY 2021-22

Sr. No.	Particulars	Approved
A	ARR	1135
B	Receivables equivalent to 2 months of ARR	189.14
C	Power Purchase expenses including transmission charges	835.01
D	Less: 1/12th of power purchase expenses	69.58
E	Total working capital	119.56
F	Opening working capital	108.1
G	Change in working capital	11.46

3.16 Non- Tariff Income

The Hon'ble Commission approved the following non-Tariff income for 2021-22:

Table 3-18: Non-Tariff Income for FY 2021-22

Particulars	Approved FY 2021-22
Non-tariff Income	3.68

3.17 Regulated Rate Base

The Hon'ble Commission approved the following Regulated Rate base for 2021-22:

Table 3-19: RRB considered by the Commission for FY 2021-22 (Rs. Crore)

Sr. No.	Particulars	Approved by the Commission
A	Opening Original Cost of Fixed Assets (OCFA _o)	652.26
B	Opening Accumulated depreciation (AD _o)	466.78
C	Opening consumer contributions received (CC _o)	23.29
D	Opening Working capital (WC _o)	108.10
E	Opening RRB (RRB _o)	270.29
F	Investment capitalised during the year (INVi)	31.60
G	Depreciation during the year (Di)	23.09

Sr. No.	Particulars	Approved by the Commission
H	Depreciation on decapitalised assets during the year	
I	Consumer contribution during the year (CCi)	6.67
J	Fixed assets retired/decapitalised during the year (Reti)	
K	Change in capital investment (ΔABi)	1.84
L	Change in working capital during the year (ΔWCi)	11.45
M	RRB Closing	283.58
N	RRBi	282.67

3.18 Return on Capital Employed

The Hon'ble Commission approved the following RoCE for 2021-22:

Table 3-20: Return on Capital Employed for FY 2021-22

Sr. No.	Particulars	As Approved
A	RRBi	282.67
B	Opening Equity for Capitalisation (limited to 30%)	48.66
C	Closing Equity limiting to 30% of net capitalisation	49.21
D	Average Equity for Capitalisation (limited to 30%)	48.93
E	Opening Debt at 70% of net capitalisation	113.53
F	Closing Debt at 70% of net capitalisation	114.82
G	Avg Debt at 70% of net capitalisation	114.17
H	Debt at 100% of working capital	119.56
I	Debt- balancing figure	233.73
J	Rate of return on equity (re)	16.00%
K	Income tax rate	0.00%
L	Grossed Up RoE	16.00%
M	Rate of debt (rd) on capitalisation	8.00%
N	Rate of debt (rd) on working Capital	8.00%
O	Rate of interest on debt (rd) Blended	8.00%
P	WACC	9.38%
Q	RoCE	26.53

3.19 Income Tax

No income tax is allowed for FY 2021-22 as NDMC is exempt from Income Tax.

3.20 Carrying Cost

The carrying cost to be considered in Aggregate Revenue Requirement is given in table below:

Table 3-21: Approved Carrying Cost for FY 2021-22

Sr. No.	Particulars	FY 2021-22
A	Opening Revenue Surplus/ (Gap)	254.80
B	Revenue Surplus/ (Gap) during the year	58.65
C	Closing Revenue Gap	313.44
D	Average Revenue Gap	284.12
E	Rate of Carrying Cost	9.80%
F	Carrying Cost Amount	27.84
G	Closing Revenue Gap	341.29

3.21 Aggregate- Revenue Requirement

The Hon'ble Commission approved the following ARR for 2021-22:

Table 3-22: Aggregate-Revenue Requirement for FY 2021-22 (Rs. Crore)

Sr. No.	Particulars	Approved
A.	Power Purchase Cost (including Transmission Charges)	835.01
B.	O&M Expenses	253.91
C.	Other expenses/ statutory levies	
D.	Depreciation	23.09
E.	Return on capital employed	26.53
F.	Less: Non-Tariff Income	3.68
G.	Aggregate Revenue Requirement	1,134.86
H.	Carrying Cost	-27.84
I.	Gross ARR	1,107.02

3.22 The Revenue Surplus / (Gap) for FY 2021-22 is as follows:

The Hon'ble Commission has calculated the revenue Surplus / (Gap) at existing Tariff for FY 2021-22 as given in table below

Table 3-23: Revenue Surplus / (Gap) for FY 2021-22 (Rs. Crore)

Sr. No.	Particulars	Amount
1	Aggregate Revenue Requirement (ARR)	1,107.02
2	Add: PPAC Cost Subsumed	7.08
3	Revised ARR (1+2)	1,114.10
4	Revenue at Revised Tariff	1147.64
5	Add: Revenue from PPAC	25.10
6	Total Revenue (4+5)	1172.74
7	Revenue (Gap) / Surplus (6-3)	58.65

3.23 Ratio of Allocation ARR For Wheeling & Retail Supply Business

The ratio of allocation of ARR into Wheeling & Retail Supply Business in terms of the Regulation 4 (9) (e) of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 shall be as follows:

3.23.1 ARR for Retail Supply Business for FY 2021-22**Table 3-24: ARR for Retail supply Business (Rs. Crore)**

Sr. No.	Particulars	Amount
A	Power Purchase Cost (including Transmission Charges)	835.01
B	Operation & Maintenance Costs	96.49
C	Depreciation	5.31
D	Return on Capital Employed	7.43
E	Carrying Cost	-24.34
F	Less: Non-Tariff Income	2.21
G	Aggregate Revenue Requirement (ARR)	917.69

3.23.2 ARR for Wheeling Business for FY 2021-22

Table 3-25: ARR for Wheeling Business (Rs. Crore)

Sr. No.	Particulars	Approved
A	Operation & Maintenance Costs	157.42
B	Depreciation	17.78
C	Return on Capital Employed	19.10
D	Carrying Cost	-3.51
E	Non-Tariff Income	1.47
F	Aggregate Revenue Requirement (ARR)	189.33

The Petitioner will submit the actual expenditure in the subsequent petition at the time of truing up for FY 2021-22.

4 AGGREGATE REVENUE REQUIREMENT FOR FY 2022-23

The details of Aggregate Revenue Requirement for FY 2022-23 are worked out based on the following paras.

4.1 Energy Sales

4.1.1 The DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 stipulates the Sales projections to be made as follows:

"5...

(7) Sales Forecast for each consumer category and sub-categories based on following factors:

- a) Category wise growth in No. of Consumers,
- b) Category wise growth in Sanctioned Load / Contract Demand (MW),
- c) Economic Cycle (boom, recession, Government policies etc.),
- d) Impact of Open Access (MU), Net Metering (MU), Demand Side Management measures (MU) etc.,
- e) Any other factor impacting the sales;"

4.1.2 The Petitioner has observed that the sales in its licensed area have remained stagnant over the last few years. Accordingly, projection for sale has been considered as per existing pre-COVID-19 period sales in the area.

4.1.3 Accordingly, for the purpose of projections of sales for FY 2022-23, have been considered to 1357.42 MUs.

4.1.4 Accordingly, the following sales projections have been considered for FY 2022-23.

Table 4-1: Category-wise Energy Sales for FY 2022-23 (MU)

S. No.	Category	Proposed FY 2022-23
1	Domestic	255.78
2	Non-domestic	1039.00
3	Mixed Load	
4	Small Industrial Power	0.03
5	Public Lighting	7.07
6	DMRC	40.97
7	Others	14.57
	Total	1357.42

4.2 Revenue at existing Tariff in FY 2022-23

Revenue at per existing tariff rates is calculated as given in table below.

Table 4-2: Revenue at per existing tariff rates FY 2022-23

S. No.	Category	Proposed FY 2022-23 MU	Revenue at Existing Tariff Rs. Crore
1	Domestic	255.78	202.03
2	Non-domestic With Mix Load	1039.00	1031.34
3	Small Industrial Power	0.03	0.03
4	Public Lighting	7.07	4.91
5	DMRC	40.97	28.01
6	Others	14.57	11.23
	Total	1357.42	1277.54

4.3 Collection Efficiency**4.3.1 The DERC Tariff Regulations, 2017 specifies:**

"5...

(11) Collection Efficiency shall be measured as ratio of total revenue realised to the total revenue billed in the same year:

Provided that Revenue Realized or Revenue Billed on account of electricity duty, late payment surcharge, any other surcharge shall be excluded from the computation of Collection Efficiency;"

4.3.2 NDMC has considered 99.5% collection efficiency for FY 2022-23 as per DERC Business Plan Regulation, 2019 and the same has been considered for estimation of Distribution losses also.**4.4 Distribution Loss****4.4.1 The DERC Tariff Regulations, 2017 specifies:**

"5...

(8) Distribution Loss & Collection Efficiency trajectory consisting of:

- a) Total and voltage-wise distribution losses (%) along with the basis thereof,
- b) Total and category-wise revenue collection,

- c) AT&C loss level based upon past trends, sales growth and any other factors;

(12) Distribution Loss shall be measured as the difference between the Energy units input into the distribution system for sale to all its consumer (s) and the total Energy units billed in its Licensed area in the same year;

- 4.4.2 As per DERC Business Plan Regulation, 2019 distribution loss of 8.50% is specified for the FY 2022-23. Accordingly, the distribution loss has been considered as 8.50%.

Table 4-3: Distribution Loss for FY 2022-23

S. No.	Particulars	Proposed FY 2022-23
1	Distribution Loss	8.50%

4.5 Energy Requirement

- 4.5.1 Based on the projected Energy Sales and Distribution Loss for FY 2022-23, the energy requirement for NDMC is projected as under:

Table 4-4: Energy Requirement Projections for FY 2022-23

S. No.	Particulars	Proposed FY 2022-23
	Energy Requirement	
1	Energy Sales (MU)	1357.42
2	Distribution Loss (%)	8.50%
3	Distribution Loss (MU)	126.10
4	Energy Required at Distribution Periphery (MU)	1483.52

4.6 Energy Availability

- 4.6.1 NDMC will meet the proposed energy requirement from various sources namely.

- Power Purchase from plants located in Delhi - Pragati Power Station-I and Pragati Power Station-III (Bawana), Delhi MSW Solutions Ltd. as per allocation.
- The energy projections of within the state plants have been considered based on past trends. Further, an escalation factor of 2% on year-on-year basis has been considered to project the corresponding fixed and energy charges for such plants.

- c) The Petitioner further submits that it has adequate power availability from renewable sources and is actively pursuing to source clean/green energy for its licensed area. It is the humble submission of NDMC that it is inclined to buy power from renewable sources to meet its power requirement and would therefore request the Hon'ble Commission not to consider any allocation of power from any other source in the ensuing years. However, in case the Hon'ble Commission envisages additional allocation of any capacity to NDMC, the same may be considered from the hydro and solar sources available for Delhi DISCOMS in consultation with NDMC.
- d) NDMC had a power Purchase Agreement with NTPC for Purchase of Power from Dadri TPS-1, which has expired on 30th November, 2020 and NDMC is not under any obligation to schedule any power from NTPC's Dadri TPS-I. NDMC submits not to procure power from Dadri TPS.
- e) NDMC shall procure 142 MW Hydro Power and 250 MW Solar Power under Tariff based competitive bidding system in line with mandate given by Ministry of Power, Govt. of India to make NDMC a 100% Renewable Energy Consuming DISCOM.
- f) For procurement of Hydro Power NDMC has filed a Petition No. 8/2021 and Petition No. 33/2021 with Hon'ble Commission to consider and adopt the tariff as quoted and negotiated with LI Bidder i.e. Teesta Urja Ltd (participated through PTC India Ltd - Trader), in terms of the provisions contained in section 63 of the Electricity Act 2003.

In view of the in-principle approval granted by the Hon'ble Commission vide its letter F.3 (461)/Tariff-Engg./DERC/2016-17/Pt.I/5334/2144 Dated: 21/ 12/2020, Petitioner floated a Tender/NIT on Deep Portal for e-Bidding process using e-reverse Auction vide NIT No. PFC Consulting Limited/ Medium/ Supply from hydro-electric power station/20-21/ET/73 Dated 23.12.2020. NDMC has followed the transparent bidding process and such bidding process has taken place in accordance with the guidelines issued by the Central Government. The effective Tariff at Ex Bus bar / Project Bus bar of L1 Bidder i.e. Teesta Urja Ltd. is Rs. 3.96 per kWh. This is exclusive of Interstate transmission charges, loss and other charges.

- g) For Solar Power NDMC has signed a MOU with SJVN Ltd for 150 MW of Solar Power under CPSU scheme of GOI at a tariff of Rs. 2.44 per kWh. The project is likely to be commissioned during FY 2023-24. For the requirement for FY 2022-23 NDMC is floating a tender for short term solar power purchase of 150 MW.
- h) The shortfall/surplus in the energy if any shall be procured/sold through Exchange etc.

4.6.2 NDMC's allocation from various power stations from which it will source power is given in the table below:

Table 4-5: Energy Availability Projections (NDMC Share)

S. No.	Power Plant	Total Installed Capacity (MW)	Firm % Share FY 2022-23	Capacity in MW	Energy in MU
1	Pragati Power - I	330	30.30%	100	440.00
2	Pragati Power - III*	1,371	9.12%	100	356.00
3	DMSWSL Bawana	24	5.09%	1	6.15
4	Hydro Power	142	100.00%	142	611
5	Solar Power	100	100.00%	100	160
6	Bilateral, Hydro & Others	200	100.00%	200	160
7	Total			643	1733.15

* For PPS-III, the capacity allocated for Delhi is 80% of the installed capacity (i.e. 1371 MW x 80% = 1096.80 MW). Balance 20% is allocated to Punjab & Haryana. NDMC's share @19.12% has been worked out on 1096.80 MW, which comes to 210 MW. The share of NDMC till 31st August 2020 was 9.12%, which was increased to 19.12% from 1st September 2020.

- 4.6.3 For meeting the supply-demand gap during the peak hours, NDMC projects to rely upon Short-Term, Bilateral and Inter-Discom Power Purchase. Detailed methodology of projecting the power availability from various sources is detailed below: -
- 4.6.4 Energy availability has shown a substantial rise over the years and this has helped NDMC meet its peak power requirements comfortably.
- 4.6.5 NDMC has considered the availability of power from such sources in the past and has accordingly worked out the expected availability from such stations in FY 2022-23. The overall estimated quantum of power to be purchased from each of the sources is provided in the above table and appropriate forms and the same may kindly be approved by the Hon'ble Commission.
- 4.6.6 Presently, NDMC don't envisage any shortfall in power. Further, NDMC has allocations from Delhi MSW Solutions Ltd, Bawana in line with the provisions of Tariff Policy 2016, which mandates all Discoms to procure power from municipal solid waste-based power plants at a tariff determined by the appropriate Commission. NDMC also submits that it may resort to other Banking and bilateral arrangements along with Short Term power sources to meet the energy deficit as and when required.
- 4.6.7 **Solar RPO Obligation:** NDMC envisages procurement of solar power from various sources within its licensed area through Plants Installed by NDMC on Ownership basis, through Developer Mode and Net-Metering / Grid Connected. It plans to procure incremental solar power in the ensuing year 2022-23 from such sources. NDMC submits



that it is making efforts for purchasing 100 MW solar power through Competitive bidding. The same is likely to increase the solar purchase in its power procurement portfolio and will meet the Solar RPO.

4.6.8 NDMC has projected Non-Solar RPO from various sources including Hydro Projects and Delhi MSW Solutions Ltd. which would be sufficient to meet the existing RPO targets specified by the Hon'ble Commission and hence NDMC has not projected any REC purchase in FY 2022-23.

4.6.9 **Consideration for Unique Load Curve of NDMC:** NDMC submits that its licensed area comprises of VVIP areas having all the offices of Government of India viz. North Block, South Block, Nirman Bhawan, Udyog Bhawan, Rail Bhawan etc. as well as Parliament House and Rashtrapati Bhawan, Supreme Court of India. Given the working hours in such offices, the power requirement is steep during the day and miniscule in the night hours. Given the unique load pattern, NDMC requests the Hon'ble Commission to consider allocation of power to NDMC in twelve hours' duration instead of existing twenty-four durations.

4.7 Energy Balance

4.7.1 The following table shows the projected energy balance arrived for FY 2022-23 after considering the projected sales, AT&C loss levels, transmission losses, power purchase and sale of surplus power.

Table 4-6: Energy Balance Projections for FY 2022-23 (in MU)

S. No.	Particulars	Proposed FY 2022-23
A	Energy Requirement	
1	Energy Sales	1357.42
2	Distribution Loss (%)	8.50%
3	Distribution Loss (MU)	126.10
4	Energy Required at Distribution Periphery	1483.52
B		
1	Power Purchase from Large Hydro (Teesta) outside the State	611.00
2	Power Purchase from Small Hydro outside the state	70.00
3	Interstate Transmission Losses (%)	3.20%
4	Less: Interstate Transmission Losses	21.79
5	Net Power Purchase from outside states	659.21



S. No.	Particulars	Proposed FY 2022-23
6	Power Purchase from within the State	
(i)	Pragati I	440.00
(ii)	Pragati-III (Bawana)	356.00
(iii)	DMSWSL and EDWPCL	6.15
7	Solar Power (100 MW)	160.00
8	Short term Bilateral Hydro	75.00
9	From IEX	15.00
10	Gross Power Purchase Quantum	1711.36
11	Intra-State Transmission Loss (%)	0.88%
12	Less: Intra-State Transmission Loss	15.06
13	Net Power Available at NDMC Periphery	1696.30
14	Sale of Surplus Power	212.78
15	Net Power available for Retail Sales	1483.52

4.8 Power Purchase Cost

Projected Power Purchase cost for 2022-23 is as under:

Table 4-7: Total Power Purchase Cost for FY 2022-23

S. No.	Particulars	Energy Proposed FY 2022-23 MU	Amount Rs in Crore	Rate Rs/ kWh
1	Power Purchase from Large Hydro (Teesta) outside the State	611.00	241.96	3.96
2	Power Purchase from Small Hydro outside the state	70.00	32.62	4.66
3	Interstate Transmission Losses (%)	3.20%		
4	Less: Interstate Transmission Losses / Charges	21.79	22.30	
5	Net Power Purchase from outside states	659.21		
6	Power Purchase from within the State			
a	Pragati I	440.00	238.04	5.41
b	Pragati-III (Bawana)	356.00	286.22	8.04

S. No.	Particulars	Energy Proposed FY 2022-23 MU	Amount Rs in Crore	Rate Rs/ kWh
c	DMSWSL	6.15	4.32	7.03
7	Solar Power Long Term	160.00	39.20	2.45
8	Short term Bilateral Hydro	75.00	31.95	4.26
9	From IEX	15.00	5.70	3.80
10	Gross Power Purchase Quantum	1711.36	0.00	
11	Intra-State Transmission Loss (%)	0.88%		
12	Less: Intra-State Transmission Loss	15.06	44.86	
13	OA charges for Small Hydro Power		5.32	
14	STOA charges for Large Hydro Power		4.74	
15	Total Power Purchase Cost	1696.30	957.23	
16	Rebate on Power Purchase		13.89	
17	Sale of Surplus Power	212.78	46.17	2.17
18	Net Power Purchase Cost	1483.52	897.17	6.05

4.9 Transmission and SLDC Chargers

4.9.1 The Inter-state and Intra-State transmission charges and SLDC charges for long / medium term is computed based on the existing tariff and given below.

Table 4-8: Inter-state & Intra-State Transmission Charges

Source	Capacity	Energy	Interstate	Intra State	Interstate Charges	Intra State Charges
	MW	MU	Rs / MWh	Rs / MWh	Rs	Rs
Teesta Power	142	611	363.2	315.93	221915200	193033230
PPS-I	100	440		315.93		139009200
PPS-III	100	356		315.93		112471080
ERLDC Charges					365000	
NRLDC Charges					365000	
DTL SLDC Charges					365000	4037100
TOTAL					223010200	448550610
				Rs in Crore	22.30	44.86



- 4.9.2 The Open Access charges and STOA charges for short term supply of power from small and large hydro projects is given in table below

Table 4-9: Open Access and STOA Charges

Details of Charges	Amount Rs in Crore
OA charges for Small Hydro	5.32
STOA Charges for Large Hydro	4.74

4.10 Operations and Maintenance Expenses

- 4.10.1 As per DERC (Terms and Conditions for Determination of Tariff) Regulations 2017 and DERC Business Plan 2019, the O&M expenses are to be worked out in following manner:

“Normative Operation and Maintenance expenses in terms of Regulation 4 (3) and Regulation 92 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Distribution Licensees shall be as follows;”

Table 4-10: Rates approved as per DERC Business Plan 2019 (Rs in Lakh)

S. No.	Particulars	Units	FY 2020-21	FY 2021-22	FY 2022-23
1	66 kV Line	Ckt KM	3.079	3.197	3.320
2	33 kV Line	Ckt KM	3.079	3.197	3.320
3	11kV Line	Ckt KM	0.935	0.971	1.008
4	LT Line system	Ckt KM	7.338	7.620	7.912
5	66/11 kV Grid S/s	MVA	0.954	0.991	1.029
6	33/11 kV Grid S/s	MVA	0.954	0.991	1.029
7	11/0.415 kV DT	MVA	1.489	1.546	1.605

- 4.10.2 The O&M Expenses projected for FY 2022-23 are as follows:



Table 4-11: O&M Expenses Projected for FY 2022-23 (Rs. Crore)

S. No.	Particulars	Units	Projection as on 31.03.2022	Addition during 22-23	As on 31.03.2023	Rate in Lakh	Amt in Lakh	Rs. Cr
1	66 kV Line	Ckt KM	55.71	0.00	55.71	3.320	184.95	1.85
2	33 kV Line	Ckt KM	199.80	0.00	199.80	3.320	663.35	6.63
3	11kV Line	Ckt KM	1076.33	136.17	1212.50	1.008	1222.20	12.22
4	LT Line system	Ckt KM	4273.75	31.00	4304.75	7.912	34059.18	340.59
5	66/11 kV Grid S/s	MVA	490.00	0.00	490.00	1.029	504.21	5.04
6	33/11 kV Grid S/s	MVA	1066.00	0.00	1066.00	1.029	1096.91	10.97
7	11/0.415 kV DT	MVA	845.93	9.00	854.93	1.605	1372.16	13.72
Total								391.03

4.10.3 NDMC requests the Hon'ble Commission to approve the O&M costs for FY 2022-23 as submitted above and allow the actual costs to be considered during True-up of the respective period.

4.11 Capital Investment and Capitalization

4.11.1 The DERC (Terms and Conditions for Determination of Tariff) Regulations 2017 specifies:

"5

(16) Capital Investment Plan taking into account the sales / demand forecast, power procurement plan, distribution loss trajectory, targets for quality of supply etc.;

(17) The investment plan shall be scheme-wise and include:

- Purpose of investment (such as replacement of existing assets; meeting load growth, technical loss reduction, reactive energy requirements, customer service improvement, improvement in quality and reliability of supply, etc.),
- Capital Structure,
- Capitalization Schedule,
- Financing Plan,
- Cost-benefit analysis,
- Performance improvement envisaged in the Control Period,
- Any other factors influencing investment.



4.11.2 An amount of Rs 83.30 Crore has been considered for Capitalization for FY 2022-23.

4.11.3 NDMC submits that it is implementing some of the schemes funded by the Central government. The details of actual capital expenditure on the schemes will be submitted at the time of truing up.

4.12 Consumer Contribution

The Hon'ble Commission approved the following Consumer Contribution for FY 2022-23

Table 4-12: Consumer Contribution for FY 2022-23 (Rs. Crore)

S. No.	Particulars	Proposed FY2022-23
1	Opening Consumer Contribution	20.26
2	Addition of Consumer Contribution	12.76
3	Closing Consumer Contribution	33.02
4	Average Consumer Contribution	26.64

4.13 Grossed Fixed Assets (GFA)

Table 4-13: GFA Projected for FY 2022-23 (Rs. Crore)

S. No.	Particulars	Proposed FY2022-23
1	Opening GFA	1124.34
2	Capitalisation	83.30
3	Decapitalization	0.00
4	Closing GFA	1207.64
5	Average GFA	1165.99

4.14 Depreciation

4.14.1 NDMC submits to apply an average rate of depreciation for distribution assets @3.60% for computing depreciation for FY 2022-23.

Table 4-14: Projected Depreciation of Fixed Assets for FY 2022-23 (Rs. Crore)

S. No.	Particulars	Proposed FY2022-23
A	Opening GFA	1124.34
B	Net Additions to asset during the year	83.30
C	Closing GFA	1207.64
D	Average GFA	1165.99
E	Less: Average consumer contribution	26.64
F	Average GFA net of CC	1139.36
G	Average rate of Depreciation	3.60%
H	Depreciation	41.02

4.15 Working Capital

4.15.1 The DERC Tariff Regulation, 2017 specified the following for computation of Working Capital.

"84.

...

(4) *Distribution Licensee as follows:*

- (i) Working capital for wheeling business of electricity shall consist of ARR for two months of Wheeling charges.
- (ii) Working capital for Retail Supply business of electricity shall consist of
 - (a) ARR for two months for retail supply business of electricity;
 - (b) Less: Net Power Purchase cost for one month;
 - (c) Less: Transmission charges for one month.

4.15.2 Accordingly, NDMC has computed the Working Capital as follows:

Table 4-15: Projected Working Capital for FY 2022-23 (Rs. in Cr.)

S. No.	Particulars	Proposed FY2022-23
1	Annual Revenue Requirement (ARR) for FY 2022-23	1382.33
2	Receivable equivalent to 2 months average billing	229.90
3	Power purchase expenses including transmission charges	897.17
4	Less: 1/12th of Power purchase expenses	74.76
5	Total Working capital	155.14
6	Opening Working Capital	119.56
7	Change in Working Capital	35.58

4.16 Non-Tariff Income

4.16.1 NDMC has proposed Non-Tariff Income same as the values approved for FY 2022-23 as provided below:

Table 4-16: Non-Tariff Income FY 2022-23 (Rs. in Cr.)

Particulars	Proposed FY 2022-23
Non-Tariff income	4.0

4.17 Return on Capital Employed

For the purpose of this submission, NDMC is submitting the ROCE calculations in line with the Tariff Regulations 2017. For calculating RoCE, NDMC has adopted normative debt – equity ratio of 70:30, and calculated WACC considering return on equity at the rate of 16% and cost of debt at 8.00%. Detailed calculation of Regulated Rate Base, Change in Working Capital, WACC leading up to estimation of RoCE is shown in table below:

Table 4-17: RRB for FY 2022-23 (Rs. Crore)

S. No.	Particulars	Proposed FY2022-23
1	RRB - Base Year	
A	Opening original cost of Fixed Assets (OCFA)	1124.34
B	Opening Working Capital (Wco)	119.56
C	Opening accumulated depreciation (Ado)	689.04
D	Opening consumer contributions (Cco)	20.25
E	(A+B)- (C+D) i.e., RRB opening (RRBo)	534.61
2	RRB - for the Year	
F	Investment capitalised during the year (INVi)	83.30
G	Depreciation during the year (Di)	41.02
H	Consumer contribution during the year (CCi)	12.76
I	Fixed assets retired / decapitalized during the year (Reti)	0.00
J	Change in working capital during the year (ΔWCi)	35.58
K	Change in capital investment (ΔABi) (F-G+J)	77.86
L	RRB Closing (E+K)	612.47
N	RRBi (E+L)/2	573.54

4.18 Return on Capital Employed

NDMC has adopted rate of return on equity for FY 2022-23 at 16% as per DERC Tariff Regulations, 2017. Interest rate on the Debt has been taken as 8.00% for FY 2022-23 as already detailed in the true-up of 2019-20.

Table 4-18: Return on Capital Employed for FY 2022-23 (Rs Crore)

S. No.	Description	Proposed FY2022-23
A	RRBi	573.54
B	Opening Equity for Capitalization (Limited to 30%)	124.51
C	Closing Equity Limiting to 30% of net Capitalization	133.37
D	Average Equity for Capitalization (Limited to 30%)	128.94

S. No.	Description	Proposed FY2022-23
E	Opening Debt at 70% of Net Capitalization	290.53
F	Closing Debt @70% of net Capitalization	311.19
G	Average Debt @70% of net Capitalization	300.86
H	Debt at 100% of Average Working Capital	155.14
I	Total Debt (G+H)	456.00
J	Rate of Return on Equity	16.00%
K	Rate of Debt (%) on Capitalization	8.00%
L	Rate of Debt (%) on Working Capital	8.00%
M	Rate of Interest on Debt (%)	8.00%
N	Weighted Average Cost of Capital (WACC) (%)	9.76%
O	Return on Capital Employed (ROCE)	57.11

4.19 Income Tax

NDMC being exempted from Income tax has not proposed any tax liability for FY2020-21. However, the petitioner request Hon'ble Commission to allow tax liability in future in case required.

4.20 Aggregate Revenue Requirement

4.20.1 NDMC submits the Aggregate Revenue Requirement for FY 2022-23 as below:

Table 4-19: ARR for FY 2022-23 (Rs. Crore)

S. No.	Particulars	Proposed FY2022-23
1	Cost of power purchase, including T&D Charges /Losses	897.17
2	Inter-State Transmission charges	Included in 1
3	Intra-state Transmission charges including SLDC charges	
4	Rebate on Timely Payments	
5	Net Operation & Maintenance (O&M)	391.03
6	Depreciation	41.02
7	RoCE	57.11
8	Income Tax	0.00

S. No.	Particulars	Proposed FY2022-23
9	Aggregate Revenue Requirement (ARR)	1386.33
10	Less: Non-Tariff Income	-4.00
11	Net Aggregate Revenue Requirement (ARR)	1382.33
12	Revenue at Existing Tariff	1277.54
13	Revenue (Gap) / Surplus for FY 2022-23	(104.79)

4.21 Ratio of Allocation of ARR Into Retail Supply & Wheeling Business

In compliance to DERC Business Plan, 2019 the allocation for Retail supply and Wheeling Business is given in table below:

Table 4-20: Allocation of ARR for Retail Supply (Rs. Crore)

Sr. No.	Particulars	Ratio	NDMC
1	Cost of Power Purchase	100%	897.17
2	Inter-State Transmission charges	100%	
3	Intra-state Transmission charges	100%	
4	SLDC fees and charges	100%	
5	Operation & Maintenance Costs	38%	148.59
6	Depreciation (including AAD)	23%	9.43
7	Return on Capital Employed	28%	15.99
8	Income Tax	28%	0.00
9	Non-Tariff Income	60%	-2.40
ARR for Retail Business			1068.79



Table 4-21: Allocation of ARR for Retail Supply (Rs. Crore)

Sr. No.	Particulars	Ratio	NDMC
1	Operation & Maintenance Costs	62%	242.44
2	Depreciation (including AAD)	77%	31.58
3	Return on Capital Employed	72%	41.12
4	Income Tax	72%	0.00
5	Non-Tariff Income	40%	-1.60
ARR for Wheeling Business			313.54

4.22 Tariff Design and Proposal

4.22.1 There is a Revenue Gap of Rs. 104.79 Crore at existing tariff for FY 2022-23

The existing Tariff applicable during FY 2022-23 would generate revenue of Rs 1277.54 Crore. The recovery of gap may require appropriate hike in Tariff for which decision may be taken by the Hon'ble Commission.

NEW DELHI MUNICIPAL COUNCIL**Annexure****FORMATS FOR ARR & TARIFF FILING BY POWER UTILITY**

Summary Formats		
1	S1	Profit & Loss Account
2	S2	Cash Flow Statement (Direct Method)
3	S3	Annual Revenue Requirement
Financial Formats		
4	F1	Power Purchase Statement for FY 2020-21
5	F2	Form 2.1a D - Sales Data FY 2020-21
6	F2 (a)	Supplement to Form F2 (Form 2.1a - D)
7	F3	Revenue & Capital Subsidies
8	F4	Income from Investments and Non-Tariff Income
9	F5	Operation & Maintenance Expenditure
10	F6	Employee Cost and Provisions
11	F7	Administration & General Expenses
12	F8	Fixed Assets and Provision for Depreciation Previous Year - FY 2020-21
13	F8	Fixed Assets and Provision for Depreciation Current Year - FY 2021-22
14	F8	Fixed Assets and Provision for Depreciation Ensuing Year - FY 2022-23
15	F9	Format for Capitalization for FY2020-21
16	F9	Format for Capitalization for FY 2022-23
17	F10	Interest & Finance Charges
18	F11	Loan Details for Financial Year 2020-21
19	F12	Statement of Sundry Debtors and provision for Bad & Doubtful Debts
20	F13	Contributions, Grants and subsidies towards Cost of Capital Assets
21	F14	Statement of Assets Not in Use
22	F15	Current Assets & Liabilities
23	F16	Net Worth of Distribution Companies
24	F1a	Energy Balance : Energy Input and Cost of Pool Power
25	F17	Allocation Statement - Revenue Requirement (for the year)
26	F18	Allocation Statement - Revenue Requirement (for the year)
27	F19	Consumer Security Deposit
28	F20	Investment Plan - Master
29	F22	Projection of Sales, Customers & Connected Load for Metered Consumers
30	F23	Revenue from Proposed Tariff & Charges
Instructions for the Utility:		
1	Electronic copy in the form of CD / Floppy Disc shall also be furnished	
2	These formats are indicative in nature and the utility may align the line items to its chart of	
PY	Previous Year	FY 2020-21
CY	Current Year	FY 2021-22
EY	Ensuing Year	FY 2022-23

NEW DELHI MUNICIPAL COUNCIL**Profit & Loss Account****Form No: S1**

All figures in Rs Crores

Sl. No.	Particulars	Approved in Tariff Order 2020-21	Previous Year 2020-21	Variance	Remarks
		Approved	Actual		
A	Revenue				
1	Revenue from sale of power	1062.37	1055.63	-6.74	
2	Non-tariff income	7.90	4.55	(3.35)	
3	Other Revenue / subsidies - Sourcewise	0.00	0.00	0.00	
	Total Revenue or Income	1070.27	1060.18	-10.09	
B	Expenditure				
1	Purchase of Power from Own Stations	0	0	-	
2	Purchase of Power from Other Sources - Long term	642.95	577.57	(65.38)	
	Purchase of Power from Other Sources - Short Term	21.08	196.68	175.60	
	Solar Power Purchase	0.00	0.00	-	
3	Transmission Charges	78.70	68.19	(10.51)	
	Rebate on power purchase	16.13	15.85	(0.28)	
	Sale of Power	0.00	32.64	32.64	
	Cost of renewable Certificates	10.54	0.00	(10.54)	
	Net Power Purchase cost	737.14	793.94	56.80	
4	Operations and Maintenance Expenditure	240.72	357.38	116.66	
5	Net prior period credit/(charges)	-	-	-	
6	Other Debits, Write-offs	-	-	-	
7	Extraordinary items	-	-	-	
8	Less: Expenses Capitalized (A&G / Employee Expenses)	-	-	-	
C	Profit before depreciation, interest and taxes	92.41	(91.14)	(183.56)	
D	Depreciation and Related debits	22.77	37.42	14.66	
E	PBIT	69.64	(128.56)	(198.20)	
1	Interest & Finance Charges	-	-	-	
2	Less: Interest Capitalized	-	-	-	
F	Total Interest and Finance Charges	-	-	-	
G	TOTAL EXPENDITURE	1,000.63	1,188.74	188.12	
H	Profit / Loss beforeTax	69.64	(128.56)	(198.20)	
I	Income Tax provisions	-	-	-	
J	Profit / Loss after Tax	69.64	(128.56)	(198.20)	

NEW DELHI MUNICIPAL COUNCIL**Cash Flow Statement (Direct Method)**Yearly
Form No: S2

All figures in Rs Crores

Particulars	PY 2020-21	CY 2021-22	EY 2022-23
	Actual	Approved	Projection
Cash inflow			
Receipts			
Tariff collection	1,104.61	1,217.76	1,277.54
Equity Inflow			
Subsidy received from Govt.			
Sale of Power / Advance	32.64	-	212.79
Other Receipts including non-energy collection from consumers	4.55	3.68	4.00
Consumer Contribution for Capital works	0.91	-	12.76
Term Loan Received	-		
Sale of Equipment	-		
FD Matured	-		
Interest received	-		
Dividends	-		
Total Cash Inflow	1,142.71	1,221.44	1,507.09
Cash Outflow			
Equity Reduction	-		
Payment for Power Purchase Cost			
Short Term Power Purchase payments (incl. advances) (Note, if any)	196.68		
Medium Term Power Purchase payments (incl. advances) (Note, if any)	-	-	-
Long Term Power Purchase payments (Note, if any)	577.57	642.95	528.58
Transmission charges	68.19	78.70	77.22
Rebate	15.85	16.13	13.89
TDS deposited on power purchase payments			
Total payment for power purchase	826.59	705.52	591.90
Other Payments			
Equity Reduction			
O&M Expenses	357.38	240.72	391.03
Payment to vendors for Repair and Maintenance (Note, if any)			
Payment for Capital works			
Administration and Other Payments			
Fixed Assets Purchased			
TDS & Service Tax deposited (Other than TDS deposited on power purchase payments) Dividend payment			
Income Tax Interest Payment			
(a) Loans for Capex			
(b) Other than Capex			
Electricity Tax	52.24	-	-
Fixed Deposit: Debt Service Reserve Account (DSRA)			
Refund of consumer contribution for capital works, if any (Note, if any)			
Other Finance charges Loan Repayment			
(a) For Capex Schemes			
(b) Other than Capex			
Total Outflow of Cash	1,236.21	946.24	982.93
Net cash generation / (Deficit)	(93.50)	275.20	524.16
Opening Cash and Bank Balance*			
Closing Cash and Bank Balance			
Notes to Accounts			

NEW DELHI MUNICIPAL COUNCIL**Annual Revenue Requirement****Form No: S3**

All figures in Rs Crores

Sl. No.	Particulars	PY 2020-21	CY 2021-22	EY 2022-23
		Actual	Approved	Projection
	Power Purchase (MU)	1,103.16	1,334.53	1,483.51
	Sale of Power (MU)	1,010.19	1,217.76	1,357.42
	Loss %			
	Distribution	8.43%	8.75%	8.50%
	Intra State	0.88%	0.92%	0.88%
	Inter State	1.65%	2.00%	3.20%
1	Receipts			
a	Revenue from tariffs & Miscell. Charges			
	i) Fixed Charges	1,104.61	1,153.03	1,277.54
	ii) Energy Charges			
	iii) PPAC	56.08		
	iv) Surcharge for Regulatory Asset (8%)	-		
	v) Electricity Duty	52.24		
	vi) Any Other Receipt (Misuse)	-		
b	Revenue subsidy from Govt.	-		
	Total	1,212.93	1,153.03	1,277.54
2	Expenditure			
a	Purchase of Power from Own Stations	-	-	-
b	Purchase of Power from Other Sources	793.94	737.14	897.17
c	Transmission Charges			
d	O&M Expense	357.38	240.72	391.03
g	Depreciation	37.42	23.09	41.02
h	Interest & Finance Charges	-	-	-
i	Less: Interest & other expenses capitalised	-	-	-
j	Extraordinary Items	-	-	-
k	Other (Misc.) - net prior period credit / (charges)	-	-	-
	Total	1,188.74	1,000.95	1,329.22
3	Return as approved / allowed by Commission	52.06	-	57.11
4	Other Income	4.55	3.68	4.00
5	Annual Revenue Requirement (2)+(3)-(4)	1,236.25	997.27	1,382.33
6	Surplus(+) / Shortfall (-) : (1)-(5) before tariff revision	(23.33)	155.76	(104.79)
7	Tariff Revision Impact	-	-	-
8	Surplus(+) / Shortfall(-) : (6)-(7) after tariff revision	(23.33)	155.76	(104.79)

NEW DELHI MUNICIPAL COUNCIL

Power Purchase Statement for FY 2020-21

Form No: F1

Sl. No.	Station Name / Agency	MUs Purchased / sold	Fixed Cost (in Rs./Cr.)	Variable Cost (in Rs./Cr.)	Other Charges (in Rs./Cr.)	Arrears (in Rs./Cr.)	Interest on Arrears as approved by CERC, if any (in Rs./Cr.)	Late Payment Surcharge, if any (in Rs./Cr.)	Incentive / adjustment, if any	Total Charges (in Rs./Cr.)	Per Unit Cost Rs. / Kwh	Transmission Losses (MUs) on the basis of last Quarter	Transmission / Open Access Charges (in Rs./Cr.)	Timely Payment Rebate in Power Purchase	MUs at Discoms Periphery	Total charges including transmission charges (in Rs./Cr.)	Per Unit cost at Discom Periphery (Rs./kWh)
	<u>Power Purchase Statement FY 2020-21</u>																
1	Pragati-I	438.90	43.65	185.85	0.00	-1.35	0.00	0.00	0.00	228.15	5.20	3.86	14.15	4.56	435.05	237.74	5.46
2	Pragati-PPS III	311.63	84.10	156.75	0.00	0.00	0.00	0.00	0.00	240.85	7.73	2.74	10.05	2.70	308.89	248.20	8.04
3	NTPS- Dadri	29.00	10.47	82.88	35.88	0.00	0.00	0.00	-25.47	103.77	35.78	0.73	33.93	5.02	28.27	132.68	46.93
	Total of long term PPAs (A)	779.54	138.23	425.47	35.89	-1.35	0.00	0.00	-25.47	572.77	7.35	7.33	58.13	12.28	772.21	618.62	8.01
1	DMSWSL	6.83	4.80	0.00	0.00	0.00	0.00	0.00	0.00	4.80	7.03	0.06	0.00	0.10	6.77	4.70	6.95
	Other than Solar but Renewable (B)	6.83	4.80	0.00	0.00	0.00	0.00	0.00	0.00	4.80	7.03	0.06	0.00	0.10	6.77	4.70	6.95
1	Bilateral Purchase(ADHPL)	129.10	0.00	53.08	0.00	0.00	0.00	0.00	0.00	53.08	4.11	0.00	3.46	1.06	129.10	55.48	4.30
2	Bilateral Purchase(MPCL)	12.55	0.00	6.26	0.00	0.00	0.00	0.00	0.00	6.26	4.99	0.00	0.38	0.13	12.55	6.52	5.19
3	Bilateral Purchase(GoHP)	34.19	0.00	13.66	0.00	0.00	0.00	0.00	0.00	13.66	3.99	0.00	0.91	0.27	34.19	14.29	4.18
4	Bilateral Purchase-(KPCPL)	87.21	0.00	40.64	0.00	0.00	0.00	0.00	0.00	40.64	4.66	2.19	5.32	0.81	85.01	45.14	5.31
5	Bilateral Purchase-(SAINJ-HEP)	48.06	0.00	18.94	0.00	0.00	0.00	0.00	0.00	18.94	3.94	0.00	0.38	0.38	48.06	18.56	3.86
	Total of bilateral purchase (C)	311.10	0.00	132.57	0.00	0.00	0.00	0.00	0.00	132.57	4.26	2.19	10.06	2.65	308.91	139.98	4.53
1	IEX	156.47	0.00	59.47	0.00	0.00	0.00	0.00	0.00	59.47	3.80	1.38	0.00	0.00	155.09	59.47	3.83
2	PXIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total of purchase through exchange (D)	156.47	0.00	59.47	0.00	0.00	0.00	0.00	0.00	59.47	3.80	1.38	0.00	0.00	155.09	59.47	3.83
	Net Metering and Grid Connected (E)	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.73	0.00	0.00
	Total of banking arrangement (F)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total of intra state purchase (G)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total of UI purchase (H)	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.64	5.34	0.00	0.00	0.00	8.69	4.64	0.00
	Total Short-Term and Renewable I = (B+C+D+E+F+G+H)	484.82	4.80	192.04	0.00	0.00	0.00	0.00	0.00	201.48	4.16	3.63	10.06	2.75	481.19	208.79	4.34
	Total Power Purchase Cost (J) =(A + I)	1264.35	143.03	617.52	35.89	-1.35	0.00	0.00	-25.47	774.24	6.12	10.96	68.19	15.85	1253.40	826.59	6.59
	<u>Bulk Power Sale Statement</u>																
	Total of Medium term sale (K)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total of short term bilateral sale (L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	IEX	86.20	0.00	17.07	0.00	0.00	0.00	0.00	0.00	17.07	1.98	0.00	0.00	0.00	86.20	17.07	1.98
	Total of Sale through exchange (M)	86.20	0.00	17.07	0.00	0.00	0.00	0.00	0.00	17.07	1.98	0.00	0.00	0.00	86.20	17.07	1.98
	Total of banking arrangement (N)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total of intra state sale (O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total of UI sale (P)	64.04	0.00	15.58	0.00	0.00	0.00	0.00	0.00	15.58	2.43	0.00	0.00	0.00	64.04	15.58	2.43
	Total sale (Q)=(K+L+M+N+O+P)	150.23	0.00	32.64	0.00	0.00	0.00	0.00	0.00	32.64	2.17	0.00	0.00	0.00	150.23	32.64	2.17
	Net Power Purchase Cost (R)=(J-Q)	1114.12	143.03	584.87	35.89	-1.35	0.00	0.00	-25.47	736.96	6.61	10.96	68.19	15.85	1103.16	793.94	7.20

P-14014/4/2022-Power Deptt.

668736/2022/Power Deptt.

NAME OF DISTRIBUTION LICENSEE : Form 2.1 a-D Licenses : New Delhi Municipal Council																										
From No. : F2 - Period FY 2020-2021																										
Consumer Category	Consumer Category	Component of Tariff			Relevant Sales Data																	Revenue including subsidy / but excluding E-tax	Total Amount Billed (including E-tax and surcharge)	Average Tariff	Collection during the Year	Remarks
		Fixed Charges	Energy Charges	Average No. of days billed during the month / billing factor	Total No. of Consumers & sanctioned load	Total bills raised during the month & contracted demand	Total Sales	Fixed Charges Billed	Energy Charges Billed	Other Charges	PPAC Amount Billed	E-Tax	Surcharge 8%	Subsidy if any	Adjustment											
S.No	1	(in Rs.)	(in Rs.)		(KW/kV A)	(No)	(No)	(MW/ MkV)	(MU)	(MKV AH)	(Rs. In Cr)	(Rs. In Cr)	(Rs. In Cr)	(Rs. In Cr)	(Rs. In Cr)	(Rs. In Cr)	(Rs. In Cr)	No. of bills	Amount adjusted	Units adjusted	(Rs. In Cr)	(Rs. In Cr)	(Rs./kWh)	(Rs. In Cr)		
1	Domestic	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1.1	Domestic				157996	35567	35567		255.776		33.794	148.824		10.127	9.670		-17.713	0.000	0.000	0.000	175.033	184.702	7.221	186.780		
1.1.1	Upto 2 KW Connected Load				22917	20586	20586		78.298		2.524	31.965		1.946	1.824		-9.992				26.443	28.267	3.610	0.000		
	0-200	20	3.00	32.319	9743	11786	11786		9.825		0.594	2.910		0.173	0.185		-3.394				0.284	0.469	0.477	0.000		
	201-400	20	4.50	33.835	5996	5359	5359		16.127		0.644	4.933		0.313	0.296		-4.524				1.366	1.662	1.031	0.000		
	401-800	20	6.50	37.516	4651	2721	2721		23.684		0.697	9.258		0.577	0.528		-1.891				8.642	9.170	3.872	0.000		
	801-1200	20	7.00	40.753	1485	465	465		12.856		0.254	6.097		0.372	0.337		-0.096				6.627	6.964	5.417	0.000		
	Above 1200	20	8.00	46.324	1041	255	255		15.806		0.335	8.670		0.511	0.477		-0.087				9.429	9.906	6.267	0.000		
	Misuse											0.096														
1.1.2	Between 2 KW to 5 KW Connected Load				27558	8214	8214		39.500		2.767	17.816		1.165	1.088		-4.253				17.495	18.583	4.705	0.000		
	0-200	50	3.00	31.867	9651	3869	3869		3.382		0.686	1.201		0.090	0.099		-1.564				0.414	0.513	1.516	0.000		
	201-400	50	4.50	33.190	6967	2315	2315		6.547		0.630	2.108		0.151	0.145		-1.872				1.017	1.161	1.774	0.000		
	401-800	50	6.50	35.875	6451	1504	1504		11.488		0.755	4.652		0.312	0.286		-0.711				5.009	5.296	4.610	0.000		
	801-1200	50	7.00	38.038	2455	367	367		7.230		0.355	3.535		0.228	0.206		-0.053				4.064	4.271	5.907	0.000		
	Above 1200	50	8.00	42.684	2034	159	159		10.854		0.341	6.303		0.383	0.352		-0.053				6.973	7.325	6.749	0.000		
	Misuse											0.018														
1.1.3	Between 5 KW to 15 KW Connected Load				46736	5724	5724		49.308		6.956	26.662		1.873	1.777		-2.919				32.573	34.350	6.966	0.000		
	0-200	100	3.00	31.230	10656	1545	1545		2.154		1.242	1.040		0.098	0.119		-1.521				0.859	0.979	4.543	0.000		
	201-400	100	4.50	31.008	9166	1776	1776		4.358		1.167	1.561		0.142	0.144		-1.118				1.752	1.896	4.350	0.000		
	401-800	100	6.50	31.909	11147	1438	1438		9.183		1.625	3.945		0.310	0.294		-0.191				5.689	5.984	6.516	0.000		
	801-1200	100	7.00	33.006	5945	509	509		7.623		0.983	3.873		0.281	0.257		-0.049				5.088	5.345	7.012	0.000		
	Above 1200	100	8.00	36.638	9822	456	456		25.989		1.940	16.185		1.042	0.962		-0.041				19.126	20.088	7.729	0.000		
	Misuse											0.059														
1.1.4	Between 15 KW to 25 KW Connected Load				11723	572	572		12.747		3.298	8.112		0.617	0.603		-0.350				11.677	12.280	9.634	0.000		
	0-200	200	3.00	30.637	1600	69	69		0.280		0.365	0.259		0.023	0.032		-0.276				0.371	0.403	14.396	0.000		
	201-400	200	4.50	30.887	957	46	46		0.252		0.220	0.132		0.016	0.018		-0.060				0.308	0.327	12.968	0.000		
	401-800	200	6.50	31.530	1691	130	130		0.753		0.411	0.390		0.040	0.042		-0.009				0.832	0.874	11.615	0.000		
	801-1200	200	7.00	31.768	1514	104	104		0.999		0.413	0.546		0.052	0.051		-0.003				1.009	1.059	10.607	0.000		
	Above 1200	200	8.00	34.729	5962	223	223		10.464		1.889	6.784		0.486	0.459		-0.002				9.156	9.616	9.189	0.000		
	Misuse											0.001														
1.1.5	Above 25 KW Connected Load				49063	471	471		75.923		18.249	64.269		4.525	4.377		-0.198				86.845	91.222	12.015	0.000		
	0-200	250	3.00	32.580	3391	31	31		-1.586		1.317	1.787		0.152	0.168		-0.130				3.127	3.294	-20.768	0.000		
	201-400	250	4.50	34.663	638	12	12		0.188		0.199	0.128		0.011	0.018		-0.053				0.285	0.303	16.114	0.000		
	401-800	250	6.50	32.379	897	19	19		0.221		0.266	0.124		0.017	0.021		-0.010				0.397	0.418	18.934	0.000		
	801-1200	250	7.00	35.114	876	23	23		0.332		0.253	0.193		0.020	0.025		-0.003				0.463	0.488	14.714	0.000		
	Above 1200	250	8.00	32.228	43262	386	386		76.769		16.214	62.014		4.325	4.146		-0.002				82.551	86.697	11.293	0.000		
	Misuse											0.023														
1.2	Single Delivery Point on 11 KV CGHS																									
	0-200																									
	201-400																									
	401-800																									
	801-1200																									
	Misuse																									
	Above 1200																									
1.3	Hospital																									
1.4	Worship																									
1.4	DVB Staff																									
1.5	Misuse (Domestic)																									
1.6	Theft (Domestic)																									
2	Non Domestic				557022	18315.000	18315.000		709.999		214.940	565.726		44.149	40.689	0.000	-0.008	0.000	0.000	0.000	824.807	865.497	12.190	932.397		

P-14014/4/2022-Power Deptt.

668736/2022/Power Deptt.

2.1	Non Domestic (Low Tension)				152926	17800.000	17800.000		156.272		58.456	121.168		9.769	9.927	0.000	-0.008	0.000	0.000	0.000	189.385	199.312	12.754	213.866	
2.1.1	Single Phase (<=10KW)	250	6.00	65.455	37808	13987	13987		45.664		14.892	27.631		2.320	2.325		-0.008	0.000	0.000	0.000	44.835	47.160	10.328	49.657	
	Misuse	250	6.00									1.496													
2.1.2	Three Phase (>10kw to <=100kw)	250	8.50	71.555	115118	3813	3813		110.608		43.564	93.538		7.450	7.601		0.000	0.000	0.000	0.000	144.551	152.152	13.756	164.210	
	Peak Hours (ToD)	250	8.50																						
	Off-Peak Hours (ToD)	250	8.50																						
	Misuse	250	8.50									1.332													
2.2	Mix Load (High Tension) -- Sanction Load >100kw				404095	515.000	515.000		553.726		156.484	444.558		34.379	30.763	0.000	0.000	0.000	0.000	0.000	635.422	666.185	12.031	718.531	
2.2.1	Supply 11kv(HT)	250	8.50	30.937	275390	228	228		395.925		110.323	337.873		25.247	22.630		0.000				473.443	496.073	12.529	531.878	
	Peak Hours (ToD)	250	8.50																						
	Off-Peak Hours (ToD)	250	8.50																						
	Misuse	250	8.50									0.000													
2.2.2	Supply on LT (400 Volt, where supply is given from NDMC sub-station)	250	8.50	30.417	1057	5	5		37.042		0.423	1.582		0.117	0.108		0.000				2.121	2.230	0.602	2.380	
	Peak Hours (ToD)																								
	Off-Peak Hours (ToD)																								
	Peak Hours (ToD)	250	8.50																						
	Peak Hours (ToD)																								
	Off-Peak Hours (ToD)																								
	Off-Peak Hours (ToD)	250	8.50																						
	Peak Hours (ToD)																								
	Off-Peak Hours (ToD)																								
	Misuse	250	8.50									0.000													
2.2.3	where applicant provides built up space for sub-stations	250	8.50	30.417	127648	282	282		120.759		45.739	105.103		9.016	8.024		0.000				159.858	167.882	13.902	184.273	
	Peak Hours (ToD)	250	8.50																						
	Off-Peak Hours (ToD)	250	8.50																						
	Misuse	250	8.50									0.345													
3	Small Industrial Power(SIP)	250	7.75	30.512	28	5	5		0.032		0.007	0.019		0.001	0.001		0.000				0.027	0.029	8.863	0.024	
4	Public Lighting	250	6.25	29.752	1622	68	68		6.910		0.764	3.817		0.238	0.243		0.000				4.819	5.062	7.326	4.458	
5	Delhi Metro Rail Corporation(DMRC)			30.333	8000	1	1		23.901		3.398	13.772		0.893	0.881		-0.598				17.465	18.346	7.676	18.610	
5.1	DMRC (66KV)	250	6.25																						
	Peak Hours (ToD)																								
	Off-Peak Hours (ToD)																								
6	Temporary Connection more or equal to 16 days			30.509	6951	1527	1527		13.577		2.661	8.362		0.669	0.756		-0.422				11.270	12.026	8.857	16.414	
	Misuse											0.099													
7	Others																								
	0-200																								
	201-400																								
	401-800																								
	801-1200																								
	Above 1200																								
8	JJ Cluster (Flat Rate)		175.00	30.418	0	933	933		0.000		0.016	0.184		0.000	0.000		0.000				0.201	0.201	0.000	0.066	
	Grand Total				731619	56416	56416		1010.195		255.580	743.978		56.077	52.240	0.000	-18.740	0.000	0.000	0.000	1033.622	1085.862	0.000	1158.749	

NEW DELHI MUNICIPAL COUNCIL**Supplement to Form F2 (Form 2.1a - D)****Form No: F2 (a)****Break up of Consumption details under respective slabs (in Kwh)**

		0-200 Units	201-400 Units		401-800 Units			801-1200 Units				Above 1200 Units				
1	Domestic	0-200	0-200	201-400	0-200	201-400	401-800	0-200	201-400	400-800	Above 800	0-200	201-400	400-800	800-1200	Above 1200
	Energy Charges	390 paisa/Kwh	390 paisa/Kwh	580 Paisa/Kwh	390 paisa/Kwh	580 Paisa/Kwh	680 Paisa/Kwh	390 paisa/Kwh	580 Paisa/Kwh	680 Paisa/Kwh	700 Paisa/Kwh	390 paisa/Kwh	580 Paisa/Kwh	680 Paisa/Kwh	700 Paisa/Kwh	700 Paisa/Kwh
1.1 (a)	Domestic (Up to 2KW connected load)	9.825	9.825	16.127	9.825	16.127	23.684	9.825	16.127	23.684	12.856	9.825	16.127	23.684	12.856	15.806
1.1 (b)	Domestic (Between 2-5 KW connected load)	3.382	3.382	6.547	3.382	6.547	11.488	3.382	6.547	11.488	7.230	3.382	6.547	11.488	7.230	10.854
1.1 (c)	Between 5 KW to 15 KW Connected Load	2.154	2.154	4.358	2.154	4.358	9.183	2.154	4.358	9.183	7.623	2.154	4.358	9.183	7.623	25.989
1.1 (d)	Between 15 KW to 25 KW Connected Load	0.280	0.280	0.252	0.280	0.252	0.753	0.280	0.252	0.753	0.999	0.280	0.252	0.753	0.999	10.464
1.1 (e)	Above 25 KW Connected Load	-1.586	-1.586	0.188	-1.586	0.188	0.221	-1.586	0.188	0.221	0.332	-1.586	0.188	0.221	0.332	76.769

NEW DELHI MUNICIPAL COUNCIL**Subsidies & Grants****Form No: F3****In Rs Crores**

Sl. No.	Particulars	PY Actual	Remarks
A	Revenue Subsidies And Grants		Reconciliation with Audited Accounts of the Year (Please mention Exact Note / Schedule for the Audited Accounts), if available
1	Revenue Grant		
2			
3			
	Sub-Total		
B	Capital Subsidies And Grants		
1	Central Government		
2			
3			
	Sub-Total		
	Total		
	Actual Flow of Funds	PY Actual	
1	Balance Subsidy for Previous years Receivable		
2	Subsidy Due for the year		
3	Total Subsidy Receivable		
4	Cash		
5	Recievd as Adjustment from State Govt.		
6	Adjustment of Interst on Loan		
7	Total Subsidy Received		
8	Balance Subsidy Receivable: (3)-(7)	-	

NEW DELHI MUNICIPAL COUNCIL

Income from investments and Non-Tariff Income

Form No: F4

In Rs Crores

Sl. No.	Particulars		PY 2020-21	CY 2021-22	EY 2022-23
			Actual	Approved	Projection
A	Income from Investment, Fixed & Call Deposits				
1	Interest Income from Investment of Statutory Reserves				
	Sub-Total				
B	Other Income				
1	Interest on loans and Advances to staff				
2	Interest on Loans and Advances to Licensee				
3	Interest on Loans and Advances to Lessors				
4	Interest on Advances to Suppliers / Contractors				
5	Income from Trading (other than Electricity)				
6	Gain on Sale of Fixed Assets				
7	Income / Fee / Collection against staff welfare activities				
8	Miscellaneous receipts				
9	Misc. charges from consumers - LPSC		4.55		
10	Surcharge on Non Payment of subsidy by Govt				
11	Others, if any				
	Sub-Total				
	Total		4.55	3.68	4.00

Notes: - Statutory Resrves are reserves created from ARR

NEW DELHI MUNICIPAL COUNCIL

Operation & Maintenance Expenditure

Form No: F5

In Rs Crores

Sl. No.	Particulars	PY 2020-21	CY 2021-22	EY 2022-23
		Actual	Approved	Projection
1	Plant and Machinery			
2	Building			
3	Civil Works			
4	Lines, Cables Networks etc.	357.38	240.72	391.03
5	Vehicles			
6	Furniture and Fixtures			
7	Office Equipments			
8	Spare Inventory for maintaining Transformer redundancy			
9	Sub station maintenance by private agencies			
10	Any other items			
	Total	357.38	240.72	391.03

NEW DELHI MUNICIPAL COUNCIL

Employee Cost and Provisions

Form No: F6

In Rs Crores

Sl. No.	Particulars	Value of GFA	PY Provisional	CY Estimate	EY Projection	Remarks
A	Employee Strength (Number)					
	Working strength at the beginning of the year					
B	Employee's Cost					
1	Salaries					
2	Dearness Allowance					
3	Other Allowances & Relief					
a	Allowance details					
b	...					
c	...					
d	...					
4	Medical Expenses Reimbursement					
5	Leave Travel Assistance					
6	Fee & Honorarium					
7	Incentives / Awards Including That In Partnership Project (Specify Items)					
8	Earned Leave Encashment					
9	Tution Fee Re-Imbursement					
10	Leave Salary Contribution					
11	Payment Under Workman'S Compensation And Gratuity					
12	Subsidised Electricity To Employees					
13	Staff Welfare Expenses					
C	Apprentice And Other Training Expenses					
D	Payment / Contribution To PF Staff Pension And Gratuity					
1	Terminal Benefits					
a)	Provident Fund Contribution					
b)	Provision for PF Fund - Invested					
	Provision for PF Fund - Not Invested					
c)	Pension Payments					
d)	Gratuity Payment					
e)	Leave Encashment Payment					
2	Any Other Items					
	Total D					
E	Bonus / Exgratia To Employees					
F	Grand Total					
G	Chargeable To Construction Works					
	Balance Item 'F' Aproprate For (F)-(G)					

Reconciliation with Audited Accounts of the Year (Please mention Exact Note/Schedule for the Audited Accounts), if available

O&M Expenses considered as per Line-Length and MVA Capacity as per rates specified in DERC Business Regulations, 2019

NOTE: THE UTILITIES SHALL SUBMIT THE DETAILS OF ALL EMPLOYEE EXPENSES IRRESPECTIVE OF THEIR DEPARTMENTS / FUNCTIONS.ALL THE DEPARTMENTS/FUNCTIONS, ORGANISATIONAL CHART WITH STRENGTH AND TOTAL EMPLOYEE EXPENSES TO BE INDICATED SEPARATELY

Administration & General Expenses**Form No: F7**
In Rs Crores

Sl. No.	Particulars	PY	CY	EY	Remarks
		Provisional	Estimate	Projection	
A	Administration Expenses				Reconciliation with Audited Accounts of the Year (Please mention Exact Note/Schedule for the Audited Accounts), if available
1	Rent rates and taxes (Other than all taxes on income and profit)				
2	Insurance of employees, assets, legal liability				
3	Revenue Stamp Expenses Account				
4	Telephone, Postage, Telegram, Internet Charges				
5	Incentive & Award To Employees/Outsiders				
6	Consultancy Charges				
7	Technical Fees				
8	Other Professional Charges				
9	Conveyance And Travel (vehicle hiring, running)				
10	DERC License fee				
11	Plant And Machinery				
12	Security / Service Charges Paid To Outside Agencies				
13	Regulatory Expenses				
14	Ombudsman Expenses				
15	Consumer Forum				
	Sub-Total of Administrative Expenses	-	-	-	O&M Expenses considered as per Line-Length and MVA Capacity as per rates specified in DERC Business Regulations, 2019
B	Employee's Cost				
1	Fee And Subscriptions Books And Periodicals				
2	Printing And Stationery				
3	Advertisement Expenses (Other Than Purchase Related) Exhibition & Demo.				
4	Contributions/Donations To Outside Institute / Association				
5	Electricity Charges To Offices				
6	Water Charges				
7	Any Study - As per requirements				
8	Miscellaneous Expenses				
9	Public Interaction Program				
10	Any Other expenses				
	Sub-Total of other charges	-	-	-	
C	Legal Charges				
D	Auditor'S Fee				
E	Frieght - Material Related Expenses				
F	Departmental Charges				
G	Total Charges				
H	Total Charges Chargeable To Capital Works				
I	Total Charges Chargeable to Revenue Expenses	-	-	-	

NOTE: 1) NO EMPLOYEE EXPENSES TO BE COVERED UNDER A&G EXPENSES

2) LEGAL CHARGES PAID TO BE SPLIT INTO:

A) CASES FILED AGAINST THE TARIFF ORDER/REGULATIONS OF THE COMMISSION

B) OTHER CASES

NEW DELHI MUNICIPAL COUNCIL**Fixed Assets and Provision for Depreciation**

Form No: F8

In Rs Crores

Sl. No.	Particulars	Previous Year - FY 2020-21										
		Gross Fixed Assets				Provision For Depreciation					Net Fixed Asset	
		At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	Rate of Depreciation	At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End Of Year	At The begning of Year	At the End of Year
1	Land & Land rights											
2	Building and Civil Works											
	Others 1											
	Others 2											
	Others 3											
	Sub-Total											
3	Line Cable Networks etc.											
	Towers, poles, fixtures, overhead conductors, devices											
	Transformers											
	Switchgears, Control gear & Protection											
	Batteries											
	Others											
4	Communication equipment											
5	Meters											
6	Vehicles											
7	Furniture & fixtures											
8	Office Equipments											
9	Assets taken over & pending final valuation											
10	Any other items											
	Total (1 to 10)	1,012.55	80.19	-	1,092.74	3.60%	628.53	37.42	-	665.95	384.02	426.79

NEW DELHI MUNICIPAL COUNCIL**Fixed Assets and Provision for Depreciation**

Form No: F8

In Rs Crores

Sl. No.	Particulars	Current Year - FY 2021-22										
		Gross Fixed Assets				Provision For Depreciation					Net Fixed Asset	
		At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	Rate of Depreciation	At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End Of Year	At The begning of Year	At the End of Year
1	Land & Land rights											
2	Building and Civil Works											
	Others 1											
	Others 2											
	Others 3											
	Sub-Total											
3	Line Cable Networks etc.											
	Towers, poles, fixtures, overhead conductors, devices											
	Transformers											
	Switchgears, Control gear & Protection											
	Batteries											
	Others											
4	Communication equipment											
5	Meters											
6	Vehicles											
7	Furniture & fixtures											
8	Office Equipments											
9	Assets taken over & pending final valuation											
10	Any other items											
	Total (1 to 10)	652.26	31.60	-	683.86	3.60%	466.78	23.09	-	489.87	185.48	193.99

NEW DELHI MUNICIPAL COUNCIL**Fixed Assets and Provision for Depreciation**

Form No: F8

In Rs Crores

Sl. No.	Particulars	Ensuing Year - FY 2022-23										
		Gross Fixed Assets				Provision For Depreciation					Net Fixed Asset	
		At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	Rate of Depreciation	At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End Of Year	At The begning of Year	At the End of Year
1	Land & Land rights											
2	Building and Civil Works											
	Others 1											
	Others 2											
	Others 3											
	Sub-Total											
3	Line Cable Networks etc.											
	Towers, poles, fixtures, overhead conductors, devices											
	Transformers											
	Switchgears, Control gear & Protection											
	Batteries											
	Others											
4	Communication equipment											
5	Meters											
6	Vehicles											
7	Furniture & fixtures											
8	Office Equipments											
9	Assets taken over & pending final valuation											
10	Any other items											
	Total (1 to 10)	1,124.34	83.30	-	1,207.64	3.60%	705.25	41.02	-	746.27	419.09	461.37

NEW DELHI MUNICIPAL COUNCIL**Format for Capitalization for FY2020-21****Form No: F9****In Rs Crores**

S. No.	Name of Division	Scheme No.	Description of Scheme	Amount Capitalized		Date of COD	Remarks
				Municipal	Consumer		
1	CVI - (Electric)	20/25	Augmentation of 33 KV ESS at Kidwai Nagar West (NDMC) Estt. No. E108/EE(E)P-33KV/2009-10	4,89,95,423.00	-	30-06-2020	
2	CVI - (Electric)	20/27	Laying of 33 KV 3C X 400 Sq. mm. (XLPE) cable from 220/33 KV ESS Race Course and from 33 KV ESS trauma Centre to 33 KV ESS State Guest House. Estt. No. 120/EE(P-33KV)2011-12	2,37,44,176.00	-	30-03-2021	
3	NIFPES	N/A	Supply, Installation Testing and Commissioning of Nitrogen Injection Fire Prevention & Extinguishing system for Power Transformers installed at various 33 kV ESSs of NDMC Area	91,46,942.50	91,46,942.50	09.01.2021	
4	Integrated Power Development Scheme (IPDS)	N/A	Strengthening of Sub-Transmission and* Distribution Network under Integrated Power Development Scheme (IPDS) of Ministry of Power, Government of India	71,08,80,000.00		24-12-2020	
				79,27,66,541.50	91,46,942.50		

Total Capitalization for FY 2022-23**80.19**

NEW DELHI MUNICIPAL COUNCIL**Format for Capitalization for FY 2022-23****Form No: F9
In Rs Crores**

S. No.	Name of Division	Scheme No.	Description of Scheme	Amount to be Capitalized (in Crore)		Remarks
				Municipal	Consumer	
1	CI - (Electric)	E-26/2014-15	Preliminary estimate for replacement /augmentation of various 11 kV HT cable in M/N & M/S area of NDMC	62.60	-	
2	CI - (Electric)	E-07/2002/EEP	Revised P.E. for construction of 11 kV ESS behind Hanuman Mandir, Hanuman Laen, New Delhi	3.32	-	
3	CII - (Electric)	Est. No. 2292+12/2016-17/EEP	Installation of Transformer in CBI office, Jamnagar House, New Delhi	0.09	0.18	
4	CII - (Electric)	Est. No. 2200+15/2016-17/EEP	Enhancement of additional electrical load from 225 KW to 624 KW at office of CPWD, Vidhyut Bhawan, Shanker Market, New Delhi	0.95	-	
5	CII - (Electric)	Est. No.C-2267/2018-19	Sanctioned of new electric connection of 1853.28 KW to Burn & Plastic Unit at JPN Apex Trauma Center, New Delhi	0.33	0.40	
6	CII - (Electric)	Est. No. E 11/2007 EE(P)	Establishing 10 nos USS and augmentation of LT network system surrounding Gole Market DIZ area, New Delhi	3.25	12.18	
Total				70.54	12.76	

Total Capitalization for FY 2022-23**83.30**

NEW DELHI MUNICIPAL COUNCIL

Interest & Finance Charges

Form No: F10

In Rs Crores

Sl. No.			Particulars	PY 2020-21	CY 2021-22	EY 2022-23
				Actual	Approved	Projected
A	I		Administration Expenses			
		1	PFC			
		2	Bond			
		3	Bank / FIs			
		4	APDRP			
		5	Any Other			
			Total of I	-	-	-
	II		Interest on Working Capital Loans Or Short Term Loans			
			Total of A : I + II			
B			Employee's Cost			
		1	Fee And Subscriptions Books And Periodicals			
		2	Printing And Stationery			
		3	Advertisement Expenses (Other Than Purchase Related) Exhibition & Demo.			
		4	Contributions/Donations To Outside Institute/Association			
		5	Electricity Charges To Offices			
		6	O&M Cost	357.38	240.72	391.03
			Total of B	357.38	240.72	391.03
C			Grand Total Of Interest & Finance Charges: A + B	357.38	240.72	391.03
D			Less: Interest & Finance Charges Chargeble to Capital Account	-	-	-
E			Frieght - Material Related Expenses	-	-	-
F			Net Total Of Interest & Finance Charges : For Revenue Account: C-D	357.38	240.72	391.03

NEW DELHI MUNICIPAL COUNCIL

Loan Details for Financial Year

Form No: F11

In Rs Crores

[illegible]

**P-14014/4/2022-Power Deptt.
NEW DELHI MUNICIPAL COUNCIL**

668736/2022/Power Deptt.

Statement of Sundry Debtors and provision for Bad & Doubtful Debts

Form No: F12
Annually
In Rs Crores

Sl. No.	Particulars	PY 2020-21 Actual	Remarks
1	Receivable from customers as at the beginning of the year	75.55	
	a) Domestic		
	b) Non-Domestic		
	c) Industrial		
	d) Agriculture		
	e) Mushroom Cultivation		
	f) Public Lighting		
	g) Delhi Jal Board		
	h) Delhi International Airport Limited		
	i) Railway Traction		
	j) DMRC (Supply at 220 kV and 66 kV)		
	k) Advertisements and Hoardings		
	l) Temporary Supply		
2	Revenue billed for the year	1,055.63	
	a) Domestic	192.75	
	b) Non-Domestic	827.99	
	c) Industrial	0.03	
	d) Agriculture	-	
	e) Mushroom Cultivation	-	
	f) Public Lighting	4.82	
	g) Delhi Jal Board	-	
	h) Delhi International Airport Limited	-	
	i) Railway Traction	-	
	j) DMRC (Supply at 220 kV and 66 kV)	18.06	
	k) Advertisements and Hoardings	-	
	l) Other (Including Temporary Supply and J J Clusters)	11.99	
3	Collection for the year	1,104.61	
	Against current dues		
	Against arrears upto previous year		
	a) Domestic		
	b) Non-Domestic		
	c) Industrial		
	d) Agriculture		
	e) Mushroom Cultivation		
	f) Public Lighting		
	g) Delhi Jal Board		
	h) Delhi International Airport Limited		
	i) Railway Traction		
	j) DMRC (Supply at 220 kV and 66 kV)		
	k) Advertisements and Hoardings		
	l) Temporary Supply		
4	Gross receivable from customers as at the end of the year	76.66	
	a) Domestic		
	b) Non-Domestic		
	c) Industrial		
	d) Agriculture		
	e) Mushroom Cultivation		
	f) Public Lighting		
	g) Delhi Jal Board		
	h) Delhi International Airport Limited		
	i) Railway Traction		
	j) DMRC (Supply at 220 kV and 66 kV)		
	k) Advertisements and Hoardings		
	l) Temporary Supply		
5	Receivables against permanently disconnected consumers	-	
	a) Domestic		
	b) Non-Domestic		
	c) Industrial		
	d) Agriculture		
	e) Mushroom Cultivation		
	f) Public Lighting		
	g) Delhi Jal Board		
	h) Delhi International Airport Limited		
	i) Railway Traction		
	j) DMRC (Supply at 220 kV and 66 kV)		
	k) Advertisements and Hoardings		
	l) Temporary Supply		
6	Receivables (4-5)	76.66	
7	% of provision		
8	Provision for bad and doubtful debts		

NEW DELHI MUNICIPAL COUNCIL**Contributions, Grants and subsidies towards Cost of Capital Assets**

Form No: F13

In Rs Crores

Sl. No.	Particulars	Balance at the beginning of the year	Previous Year FY 2020-21			CY FY 2021-22		Ensuing Year FY 2022-23			Remarks
			Additions during the Year	Capitalized during the year	Balance at the end of the Year	Additions during the Year	Balance at the end of the Year	Additions during the Year	Capitalized during the year	Balance at the end of the Year	Reconciliation with Audited Accounts of the Year (Please mention Exact Note / Schedule for the Audited Accounts), if available
1	Consumer Contribution Towards Cost Of Capital Assets	12.67	0.91	-	13.58	6.67	20.25	12.76	-	33.01	
2	Sub-Total	12.67	0.91	-	13.58	6.67	20.25	12.76	-	33.01	
3	Subsidies Towards Cost Of Capital Asset	-	-	-	-	-	-	-	-	-	
4	Grant Towards Cost Of Capital Assets	-	-	-	-	-	-	-	-	-	
5	Sub-Total	-	-	-	-	-	-	-	-	-	
	Total	12.67	0.91	-	13.58	6.67	20.25	12.76	-	33.01	

NEW DELHI MUNICIPAL COUNCIL

Current Assets & Liabilities

Form No: F15

In Rs Crores

Sl. No.	Particulars	PY	CY	EY	Remarks
		Actual	Estimated	Projection	
A	Current Assets, Loans and Advances	76.66	0.00	0.00	Reconciliation with Audited Accounts of the Year (Please mention Exact Note / Schedule for the Audited Accounts), if available
	Sundry Debtors	76.66			
	Inventories				
	Cash and Bank Balances				
	Loans and Advances				
B	Current Liabilities and Provisions	0	0	0	
	Current Liabilities				
	Provisions				
C	NET CURRENT ASSETS = (A - B)	76.66	-	-	

NEW DELHI MUNICIPAL COUNCIL

Net Worth of Distribution Companies

Form No: F16

In Rs Crores

Sl. No.	Particulars	As on.....	PY	CY	EY	Remarks
			Actual	Projected	Projected	
						Reconciliation with Audited Accounts of the Year (Please mention Exact Note / Schedule for the Audited Accounts), if available
	Original Cost of FA					
Add:	CWIP					
Add:	Net Current Asset					
Less:	Depriciation					
Less:	Loan Long term Outstanding	NIL				
Less:	CSD					
Less:	SLD					
Less:	Consumer Contribution					
	Net Worth					
	Additional Capital Infusion during the year / dividend payment					
	Total Net Worth		-	-	-	

NEW DELHI MUNICIPAL COUNCIL**Energy Balance : Energy Input and Cost of Pool Power**

Form No: F1a

Sl. No.	Particulars	PY 2020-21		CY 2021-22		EY 2022-23	
		%	MU	%	MU	%	MU
1	Energy Sales						
	a) LT Sales						
	b) HT Sales at 11kV						
	c) HT Sales at 33kV						
	c) EHT Sales						
	Total Energy Sales		1010.19		1,217.76		1,357.42
2	Distribution Losses						
	a) Distribution losses at 33kV level above						
	b) Distribution losses in HT 11kV and LT system combined						
	Total Distribution Losses	8.43%	92.96	8.75%	116.77	8.50%	126.10
3	Energy requirement at T-D boundary						
	a) 11kV and LT energy requirement combined						
	b) HT 33kV energy requirement						
	Total energy requirement at T-D boundary		1103.16		1334.53		1483.51
4	Intra-State Transmission Losses	0.88%	9.05	0.92%	7.26	0.88%	15.06
5	Energy requirement of EHT consumers						
6	Energy Requirement of Distribution system consumers after grossing up for Intra-State Transmission losses		1112.20		1341.79		1498.57
7	Energy Requirement of Distribution Licensee		1112.20		1341.79		1498.57
8	Inter-State Transmission Losses	1.65%	1.92	2.00%	0.00	3.20%	21.79
9	Total Energy Requirement		1114.12		1334.53		1520.36
10	Total Energy Available		1264.35		781.35		1733.15
11	Surplus / (Deficit) (Sale of Energy)		150.23		-553.18		212.79

NEW DELHI MUNICIPAL COUNCIL

Allocation Statement - Revenue Requirement (for the year)

Form No: F17

In Rs Crores

Wheeling Business		PY 2020-21	CY 2021-22	EY 2022-23
		Actual	Projected	Projected
	Expenditure			
A	Power Purchase Cost			
B	O&M Expenses	221.58	157.42	242.44
D	Depreciation	28.81	17.78	31.58
E	ROCE	37.48	19.10	41.12
F	Income tax	0.00	0.00	0.00
G	Other Miscellaneous Expenses	0.00	-3.51	0.00
H	Less: Non Tatiff Income	-1.82	-1.47	-1.60
I	Income from other business	0.00	0.00	0.00
J	ARR	286.05	189.33	313.54

NEW DELHI MUNICIPAL COUNCIL

Allocation Statement - Revenue Requirement (for the year)

Form No: F18

In Rs Crores

Retail Business		PY 2020-21	CY 2021-22	EY 2022-23
		Actual	Estimated	Projection
	Expenditure			
A	Power Purchase Cost	793.94	835.01	897.17
B	O&M Expenses	135.80	96.49	148.59
D	Depreciation	8.61	5.31	9.43
E	ROCE	14.58	7.43	15.99
F	Income tax	0.00	0.00	0.00
G	Other Miscellaneous Expenses (Carrying Cost)	0.00	-24.34	0.00
H	Total ARR	952.93	919.9	1071.19
I	Less: Non Tatiff Income	2.73	2.21	2.40
J	Income from other business	0.00	0.00	0.00
K	ARR	950.20	917.69	1068.79

NEW DELHI MUNICIPAL COUNCIL**Consumer Security Deposit****Form No: F19****In Rs Crores**

S. No. Category		PY 2020-21			
		Actual			
		Opening Balance	Received	Disbursed / Utilised	Closing Balance
1	Domestic				
2	Non-Domestic				
3	Public Water Works				
4	Public Lighting				
5	Industrial	NIL			
6	Agriculture				
7	Railway Traction				
8	Delhi Metro Rail Corporation (DMRC)				
9	Temporary Supply				
10	Others				
	TOTAL				

NEW DELHI MUNICIPAL COUNCIL

Investment Plan - Master

Form No: 20

In Rs Crores

Category	Status		Previous Years	Current Year	Ensuing Year
			2020-21	2021-22	2022-23
EHV Schemes	Submission	No of Schemes			
		Cost in Rs. Crs.			
	Approval	No of Schemes			
		Cost in Rs. Crs.			
Distribution Schemes	Submission	No of Schemes			
		Cost in Rs. Crs.			
	Approval	No of Schemes			
		Cost in Rs. Crs.			
Other Schemes	Submission	No of Schemes			
		Cost in Rs. Crs.			
	Approval	No of Schemes			
		Cost in Rs. Crs.			
Deposit Schemes	Submission	No of Schemes			
		Cost in Rs. Crs.			
	Approval	No of Schemes			
		Cost in Rs. Crs.			
Total	Approved in Tariff Order	No of Schemes			
		Cost in Rs. Crs.	39.50	31.60	
	Actual Submitted in True-up	No of Schemes	4		6
		Cost in Rs. Crs.	80.19		83.30
	Approved in True-up	No of Schemes			
		Cost in Rs. Crs.			
Total Schemes		% Approval (Cost Only)	203.02%	0.00%	0.00%

NEW DELHI MUNICIPAL COUNCIL

Projection of Sales, Customers & Connected Load for Metered Consumers

Form No: 22

S. No.	Consumer Category	PY 2020-21			CY 2021-22			EY 2022-23		
		Actual			Estimated			Projection		
		Total Sales (MU)	Total No. of Consumers (Nos.)	Connected load (KW)	Projection of Sales (MU)	Total No. of Consumers (Nos.)	Connected load (KW)	Projection of Sales (MU)	Total No. of Consumers (Nos.)	Connected load (KW)
1	Domestic									
1.1	Domestic	255.78	35567	157996	262.55	35567	157996	255.78	35567	157996
1.1.1	Upto 2 KW Connected Load	78.30	20586	22917				78.30	20586	22917
	0-200	9.82	11786	9743				9.82	11786	9743
	201-400	16.13	5359	5996				16.13	5359	5996
	401-800	23.68	2721	4651				23.68	2721	4651
	801-1200	12.86	465	1485				12.86	465	1485
	Above 1200	15.81	255	1041				15.81	255	1041
1.1.2	Between 2 KW to 5 KW Connected Load	39.50	8214	27558				39.50	8214	27558
	0-200	3.38	3869	9651				3.38	3869	9651
	201-400	6.55	2315	6967				6.55	2315	6967
	401-800	11.49	1504	6451				11.49	1504	6451
	801-1200	7.23	367	2455				7.23	367	2455
	Above 1200	10.85	159	2034				10.85	159	2034
1.1.3	Between 5 KW to 15 KW Connected Load	49.31	5724	46736				49.31	5724	46736
	0-200	2.15	1545	10656				2.15	1545	10656
	201-400	4.36	1776	9166				4.36	1776	9166
	401-800	9.18	1438	11147				9.18	1438	11147
	801-1200	7.62	509	5945				7.62	509	5945
	Above 1200	25.99	456	9822				25.99	456	9822
1.1.4	Between 15 KW to 25 KW Connected Load	12.75	572	11723				12.75	572	11723
	0-200	0.28	69	1600				0.28	69	1600
	201-400	0.25	46	957				0.25	46	957
	401-800	0.75	130	1691				0.75	130	1691
	801-1200	1.00	104	1514				1.00	104	1514
	Above 1200	10.46	223	5962				10.46	223	5962
1.1.5	Above 25 KW Connected Load	75.92	471	49063				75.92	471	49063
	0-200	-1.59	31	3391				1.59	31	3391
	201-400	0.19	12	638				0.19	12	638
	401-800	0.22	19	897				0.22	19	897
	801-1200	0.33	23	876				0.33	23	876
	Above 1200	76.77	386	43262				73.60	386	43262
1.2	Single Delivery Point on 11 KV CGHS									
	0-200									
	201-400									
	401-800									
	801-1200									
	Above 1200									
1.3	Hospital									
1.4	Worship									
1.4	DVB Staff									
1.5	Misuse (Domestic)									
1.6	Theft (Domestic)									
2	Non Domestic	710.00	18315.000	557022	892.45	18315.000	557022	1039.00	18315	557022

S. No.	Consumer Category	PY 2020-21			CY 2021-22			EY 2022-23		
		Actual			Estimated			Projection		
		Total Sales (MU)	Total No. of Consumers (Nos.)	Connected load (KW)	Projection of Sales (MU)	Total No. of Consumers (Nos.)	Connected load (KW)	Projection of Sales (MU)	Total No. of Consumers (Nos.)	Connected load (KW)
2.1	Non Domestic (Low Tension)	156.27	17800.000	152926				259.00	17800	152926
2.1.1	Single Phase (<=10KW)	45.66	13987	37808				75.68	13987	37808
2.1.2	Three Phase (>10kw to <=100kw)	110.61	3813	115118				183.32	3813	115118
	Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
2.2	Mix Load (High Tension) – Sanction Load >100kw	553.73	515.000	404095				780.00	515	404095
2.2.1	Supply 11kv(HT)	395.93	228	275390				493.00	228	275390
	Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
2.2.2	Supply on LT (400 Volt, where supply is given from NDMC sub-station)	37.04	5	1057				5.00	5	1057
	Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
	Peak Hours (ToD)									
	Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
	Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
2.2.3	where applicant provides built up space for sub-stations	120.76	282	127648				282.00	282	127648
	Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
3	Small Industrial Power(SIP)	0.03	5	28	0.02	5	28	0.03	5	28
4	Public Lighting	6.91	68	1622	6.49	68	1622	7.07	66	1622
5	Delhi Metro Rail Corporation(DMRC)	23.90	1	8000	41.43	1	8000	40.97	1	8000
5.1	DMRC (66KV)									
	Peak Hours (ToD)									
	Off-Peak Hours (ToD)									
6	Temporary Connection more or equal to 16 days	13.58	1527	6951	14.82	2460	6951	14.57	1527	6951
7	Others									
	0-200									
	201-400									
	401-800									
	801-1200									
	Above 1200									
8	JJ Cluster (Flat Rate)	0.00	933	0					976	0
	Grand Total	1010.19	56416	731619	1217.76	56416	731619	1357.42	56457	731619

Revenue from Proposed Tariff & Charges**Form No: 23**

S. No.	Consumer Category	Ensuing Year 2022-23							
		Total No. of Consumers (Nos.)	Connected load (KW)	Sales (MU)	Fixed Charges (Rs./KW)	Variable Charges (Rs./KW)	Revenue Fixed Charges (Rs. Cr)	Revenue Variable Charges (Rs. Cr)	Total Revenue (Rs. Cr)
1	Domestic								
1.1	Domestic	35567	157996.37	255.78			25.34	176.69	202.03
1.1.1	Upto 2 KW Connected Load	20586	22916.57	78.30			0.55	47.24	47.79
	0-200	11786	9743.15	9.82	20.00	3.00	0.23	2.95	3.18
	201-400	5359	5995.99	16.13	20.00	4.50	0.14	7.26	7.40
	401-800	2721	4650.85	23.68	20.00	6.50	0.11	15.39	15.51
	801-1200	465	1485.17	12.86	20.00	7.00	0.04	9.00	9.04
	Above 1200	255	1041.40	15.81	20.00	8.00	0.02	12.64	12.67
1.1.2	Between 2 KW to 5 KW Connected Load	8214	27558.15	39.50			1.65	25.17	26.83
	0-200	3869	9651.38	3.38	50.00	3.00	0.58	1.01	1.59
	201-400	2315	6967.26	6.55	50.00	4.50	0.42	2.95	3.36
	401-800	1504	6451.17	11.49	50.00	6.50	0.39	7.47	7.85
	801-1200	367	2454.59	7.23	50.00	7.00	0.15	5.06	5.21
	Above 1200	159	2033.75	10.85	50.00	8.00	0.12	8.68	8.81
1.1.3	Between 5 KW to 15 KW Connected Load	5724	46735.82	49.31			5.61	34.70	40.31
	0-200	1545	10655.73	2.15	100.00	3.00	1.28	0.65	1.92
	201-400	1776	9165.75	4.36	100.00	4.50	1.10	1.96	3.06
	401-800	1438	11147.22	9.18	100.00	6.50	1.34	5.97	7.31
	801-1200	509	5944.83	7.62	100.00	7.00	0.71	5.34	6.05
	Above 1200	456	9822.28	25.99	100.00	8.00	1.18	20.79	21.97
1.1.4	Between 15 KW to 25 KW Connected Load	572	11723.12	12.75			2.81	9.76	12.57
	0-200	69	1599.92	0.28	200.00	3.00	0.38	0.08	0.47
	201-400	46	957.00	0.25	200.00	4.50	0.23	0.11	0.34
	401-800	130	1690.62	0.75	200.00	6.50	0.41	0.49	0.89
	801-1200	104	1513.92	1.00	200.00	7.00	0.36	0.70	1.06
	Above 1200	223	5961.67	10.46	200.00	8.00	1.43	8.37	9.80
1.1.5	Above 25 KW Connected Load	471	49062.72	75.92			14.72	59.81	74.53
	0-200	31	3390.67	1.59	250.00	3.00	1.02	0.48	1.49
	201-400	12	638.13	0.19	250.00	4.50	0.19	0.08	0.28
	401-800	19	896.58	0.22	250.00	6.50	0.27	0.14	0.41
	801-1200	23	875.50	0.33	250.00	7.00	0.26	0.23	0.49
	Above 1200	386	43261.84	73.60	250.00	8.00	12.98	58.88	71.86
1.2	Single Delivery Point on 11 KV CGHS								
	0-200								
	201-400								
	401-800								
	801-1200								
	Above 1200								
1.3	Hospital								
1.4	Worship								
1.4	DVB Staff								
1.5	Misuse (Domestic)								

22/Power Deptt.		Ensuing Year 2022-23							
S. No.	Consumer Category	Total No. of Consumers	Connected load	Sales	Fixed Charges	Variable Charges	Revenue Fixed Charges	Revenue Variable Charges	Total Revenue
1.6	Theft (Domestic)								
2	Non Domestic	18315	557021.56	1039.00			167.11	864.23	1031.34
2.1	Non Domestic (Low Tension)	17800	152926.14	259.00			45.88	201.23	247.11
2.1.1	Single Phase (<=10KW)	13987	37808.47	75.68	250	6.00	11.34	45.41	56.75
2.1.2	Three Phase (>10kw to <=100kw)	3813	115117.67	183.32	250	8.50	34.54	155.82	190.36
	Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
2.2	Mix Load (High Tension) – Sanction Load >100kw	515	404095.42	780.00			121.23	663.00	784.23
2.2.1	Supply 11kv(HT)	228	275390.15	493.00	250	8.50	82.62	419.05	501.67
	Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
2.2.2	Supply on LT (400 Volt, where supply is given from NDMC sub-station)	5	1057.00	5.00	250	8.50	0.32	4.25	4.57
	Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
	Peak Hours (ToD)								
	Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
	Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
2.2.3	where applicant provides built up space for sub-stations	282	127648.27	282.00	250	8.50	38.29	239.70	277.99
	Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
3	Small Industrial Power(SIP)	5	27.50	0.03	250	7.75	0.01	0.03	0.03
4	Public Lighting	66	1622.42	7.07	250	6.25	0.49	4.42	4.91
5	Delhi Metro Rail Corporation(DMRC)	1	8000.00	40.97	250	6.25	2.40	25.61	28.01
5.1	DMRC (66KV)								
	Peak Hours (ToD)								
	Off-Peak Hours (ToD)								
6	Temporary Connection more or equal to 16 days	1527	6951.13	14.57			2.66	8.36	11.02
7	Others								
	0-200								
	201-400								
	401-800								
	801-1200								
	Above 1200								
8	JJ Cluster (Flat Rate)	976	0.00			175	0.20	0.00	0.20
	Grand Total	56457	731618.97	1357.42			198.21	1079.33	1277.54