

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

True-up of FY 2018-19, Revised ARR for 2019-20
along with ARR and Determination of Tariff for FY
2020-21 as per The DERC (Terms and Condition for
Determination of Tariff) Regulation, 2017

Volume I



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

SUBMITTED BY
NEW DELHI MUNICIPAL COUNCIL



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Director (Power)

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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 2018-19, Revised ARR for 2019-20 along with ARR and Determination of Tariff for FY 2020-21

AND

IN THE MATTER OF

New Delhi Municipal Council, New Delhi-110001 -

PETITIONER

AFFADAVIT VERIFYING THE PETITION

I, _____, 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 2018-19, and corresponding determination of tariff for FY 2020-21 for NDMC is based on records believed by me to be true


DEPONENT

Director (Power)

VERIFICATION

Verified on this 1st day of ----- that the contents of the affidavit are true to the best of my knowledge and belief and nothing has been cancelled thereof.


DEPONENT

Director (Power)

Determination of Tariff) Regulations, 2017. The said petition was filed in Case No. 07/2018 and the Hon'ble Commission disposed of the petition vide its order dated Mar 28, 2018.

- 1.10 NDMC has filed the petition 10/2019 for the True-up of FY 2017-18, Revised ARR for FY 2018-19 & ARR and determination of Tariff for FY 2019-20 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 July 31, 2019
- 1.11 By means of this petition, NDMC is submitting the True-up of FY 2018-19, and ARR and tariff for 2020-21 in accordance with the provisions of DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017.
- 1.12 While submitting this information, NDMC has made efforts to adhere to most of the Regulations framed by the Hon'ble Commission.
- 1.13 Formats for ARR and Tariff Filing have been enclosed as Volume II along with a soft copy in CD
- 1.14 NDMC requests the Hon'ble Commission to approve True Up for FY 2018-19, the revised projections for 2019-20 and determination of ARR and Tariff for FY 2020-21.

Prayers to the Hon'ble Commission


- 1.15 NDMC respectfully prays the Hon'ble Commission to:
 - (a) Condone, any delay in filing this petition.
 - (b) Consider the submissions and approve True-up for FY 2018-19 and review and approve the projected ARR and Tariff for FY 2020-21 as proposed in the petition as per the provisions of DERC Tariff Regulations, 2017
 - (c) Examine the proposal submitted by NDMC for a favorable dispensation as detailed in this document.
 - (d) 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.

- (e) Pass such further order, as the Hon'ble Commission may deem fit and appropriate keeping in view the facts and circumstances of the case.

New Delhi Municipal Council

New Delhi

Dated:


Director (Power)

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LIST OF ABBREVIATIONS

Abbreviation	Explanation
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
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
GoNCTD	Government of National Capital Territory of Delhi
HT	High Tension
IEX	Indian Energy Exchange
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
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.
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
SBU	Strategic Business Unit
SGS	State Generating Station
SLDC	State Load Dispatch Centre
T&D	Transmission & Distribution
TOWMCL	Timarpur Okhla Waste Management Co. Pvt. Ltd.
TPS	Thermal Power Station
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 Overview

- 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 E.R.C. 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 submitted its Aggregate Revenue Requirement (ARR) and Tariff Petition for FY 2005-06, FY 2006-07 and the Hon'ble Commission passed the

Tariff Order on these Petitions.

- 1.2.2 Subsequently, NDMC had submitted its first Multi Year Tariff Petition for FY 2007-08 to FY 2010-11 along with True Up Petition for FY 2006-07. The Hon'ble Commission passed the Tariff Order on March 07, 2008.
- 1.2.3 NDMC submitted its provisional True Up Petition for FY 2007-08 and Annual Revenue Requirement for FY 2010-11 and the Hon'ble Commission passed the Tariff Order in June, 2009.
- 1.2.4 NDMC submitted its provisional True Up Petition for FY 2008-09 & ARR for FY 2010-11 in December 2009. Also, NDMC submitted its provisional True Up Petition for FY 2009-10 & ARR for FY 2011-12 in March 2011. The Hon'ble Commission passed the Tariff Order on the same in August, 2011.
- 1.2.5 Subsequently, NDMC had submitted its second Multi Year Tariff Petition for FY 2012-13 to FY 2014- 15 along with Annual Performance Review of FY 2011-12 and True Up for FY 2010-11 in February 2012. The Hon'ble Commission passed the Tariff Order in July 2012.
- 1.2.6 NDMC had also submitted True-up Petition for FY 2011-12 and ARR and Tariff Petition for FY 2013-14 in month of January 2013. Subsequently, Hon'ble Commission passed the Tariff Order in July 2013.
- 1.2.7 In the month of January 2014, NDMC submitted True-up Petition for FY 2012-13 and ARR and Tariff Petition for FY 2014-15. The Hon'ble Commission passed the Tariff Order in July 2014.
- 1.2.8 The True-up Petition for FY 2013-14 and the ARR and Tariff Petition for FY 2015-16 was submitted to the Hon'ble Commission by NDMC in February 2015. The Hon'ble Commission passed the Tariff Order in September 2015.
- 1.2.9 NDMC had filed Petition No. 19 of 2017 for True-up for 2014-15 and review of ARR for FY 2015-16 and Business Plan and MYT petition for 3rd control period FY 2016-17 to FY 2020-21 and corresponding tariff determination for FY 2016-17, and filed subsequent Petition No. 28 of 2017 for True-up for FY 2015-16, Revised ARR for FY 2016-17, and corresponding determination of tariff for FY 2017-18.

- 1.2.10 The Hon'ble Commission disposed-off both the petitions vide its letter F.11(1388/DERC/2016-17/ dated Aug 31, 2017. In the said order, the Hon'ble Commission approved the true-up for 2014-15 and 2015-16 and determined the tariff for FY 2017-18.
- 1.2.11 NDMC filed the petition (07/2018) for approval of True-up for 2016-17, revised ARR for 2017-18 and approval of ARR and determination of tariff for FY 2018-19. The Hon'ble Commission was pleased to award an order in the said case on March 28, 2018.
- 1.2.12 NDMC has filed the petition (10/2019) for the True-up of FY 2017-18, Revised ARR for FY 2018-19 & ARR and determination of Tariff for FY 2019-20 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 July 31, 2019

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 By means of this petition, NDMC is submitting the True-up for FY 2018-19, Revised ARR for FY 2019-20 and seeks approval of ARR and Tariff approval for 2020-21 as per provisions of DERC Tariff Regulations, 2017.
- 1.3.3 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 2018-19. The Petitioner is not proposing any deviation from the approved

ARR for 2019-20 and therefore the approved parameters are being submitted without any deviation. Any changes between approved and actuals can be taken up at the time of truing-up. For 2020-21, the Petitioner has submitted all requisite information to project the ARR and corresponding Tariff determination. the information

- Category wise Energy Sales & Revenues at existing tariffs
- AT&C Losses and Energy Requirement
- Determination of Annual Revenue Requirement by forecast of the following costs, other income & returns:
 - Power Purchase Cost
 - Operation and maintenance Expenses
 - Administrative & Civil Engineering Department Cost
 - Depreciation
 - Return on Capital Employed
 - Non-Tariff Income

2 TRUE UP FOR FY 2018-19

2.1 Background

2.1.1 The tariff for 2018-19 was approved by the Hon'ble Commission vide its order dated Mar 28, 2018. The tariff was determined as per Tariff Regulations 2017.

2.1.2 In this petition, the Petitioner is submitting the actual expenses and revenue for 2018-19. Accordingly, the true-up amount has been calculated as detailed in this section and has been carried forward to the Aggregate Revenue Requirement of FY 2020-21.

2.2 Energy Sales

2.2.1 NDMC has provided the category-wise energy sales data for FY 2018-19 in the table below. The actual energy sales for FY 2018-19 are compared against the approved energy sales of 1412.67 MU. As may be observed, the energy sales have decreased marginally in comparison to approved sales in 2018-19 as shown in the table below:

Table 1: Category-wise Sales for FY 2018-19 (in MU)

S.N.	Category	Approved in T.O. FY 2018-19	Actual
1	Domestic	277.20	224.50
2	Non-Domestic	1053.73	1070.05
3	Small Industrial Power	0.05	0.03
4	Public Lighting	7.87	7.07
5	DMRC	62.09	40.97
6	Other	11.74	14.59
	Total	1412.67	1357.21

2.3 Revenue from Energy Sales

2.3.1 The Revenue billed for the FY 2018-19 against the sales achieved by the utility is consolidated from the Form 2.1(a) and is submitted as below:

Table 2: Revenue from Sale of Power for FY 2018-19 (in Rs. Crore)

S. N	Particulars	Actual
1	Revenue Billed (excluding Electricity Tax)	1269.27
2	E-tax billed	65.91

S. N	Particulars	Actual
3	Revenue Billed Including Electricity tax and including Surcharge (1+2)	1335.29
4	Total Revenue Collected including E-tax	1325.08

2.3.2 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.

2.4 AT&C Losses

2.4.1 NDMC submits its AT&C Losses achieved against the losses approved by the Hon'ble Commission vide its Tariff Order for FY 2018-19 as below:

Table 3: AT&C Loss for FY 2018-19

Particulars	Approved in Tariff Order for FY 2018-19	Actual
AT&C Loss	10.90%	6.88%

2.4.2 NDMC submits that the revenue collected and revenue billed (excluding E. tax) for FY 2018-19 as below:

Table 4: Revenue Realized and Revenue Collected for FY 2018-19

S.N	Particulars	Actual
1	Revenue Billed (Rs. Crore)	1335.29
2	Revenue Collected (Rs. Crore)	1325.08
3	Collection Efficiency (%)	99.24

2.4.3 The Revenue Billed includes Fixed Charge, Energy Charges, Other Charges and PPAC Amount Billed. Additionally, NDMC has also submitted the Actual Revenue Billed excluding Electricity tax amount. Therefore, the total Revenue Billed as per Form 2.1(a) (including E-tax) is submitted as Rs. 1335.29 Crore. Against the same, the revenue collected is Rs 1325.08 crore. The AT&C Losses are determined on revenue billed and collected excluding the Electricity Tax.

2.4.4 NDMC submits the detailed calculation of its AT&C Losses as below. NDMC has achieved distribution losses of 6.17% for FY 2018-19.

Table 5: Determination of AT&C Loss for FY 2018-19

S. No.	Particulars	Unit	Actual
1	Energy Input at NDMC Periphery	MU	1,446.18
2	Units Billed	MU	1,357.05
3	Amount Billed	Rs. Crore	1,335.19
4	Average Billing Rate	Rs./unit	9.84
5	Distribution Loss	%	6.16%
6	Amount Collected	Rs. Crore	1,325.08
7	Collection Efficiency	%	99.24%
8	Units Realized	MU	1,346.78
9	AT&C Loss Level	%	6.87%

2.5 Power Purchase Quantum

2.5.1 NDMC has allocations of power from Dadri TPS, Badarpur 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 6: Power Purchase Quantum for FY 2018-19 (MU)

S. No.	Particulars	Actual
1	Power Purchase from Central Stations	567.70
2	Interstate Transmission Losses	9.37
3	Net Power Purchase from Central Stations	558.33
4	Power Purchase from State Stations	881.43
5	DMSWSL and EDWPCL	6.29
6	Power Purchase from Short Term Sources including ST Renewable	275.22
A	Gross Power Purchase (3+4+5+6)	1,721.27
7	Intra State Transmission Loss	15.84
B	Net Power Available at NDMC Periphery(A-7)	1,705.43
8	Sale of Surplus Power	259.28
C	Net Power available for Retail Sales (B-8)	1,446.15

2.5.2 In 2018-19 NDMC has drawn long term power from Central Stations viz. Dadri TPS and intra state generating stations viz. Badarpur, and Pragati Power Stations (Pragati I and CCGT Bawana). NDMC has also sourced power from Renewable sources (DMSWSL, EDWPCL) and grid connected and net metering solar installations. The average inter-state transmission losses and intra-state losses has been considered at 1.65% and 0.92% respectively. The petitioner requests the Hon'ble Commission to kindly consider the actual

values of such losses.

2.5.3 NDMC submits that currently no payments are being made toward solar power procured from the generating units/net metering units located within license 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).

2.5.4 The details of actual power drawn from each of the sources of generation is provided in the appropriate formats 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.

2.6 Cost of Long Term Power Purchase

2.6.1 NDMC submits the cost of long term power purchase for the FY 2018-19 as below and prays to the Hon'ble Commission to approve the cost as per table below:

Table 7: Cost of Power Purchase from Long Term Sources

S. No.	Particulars	Power Purchase (MU)	Power Purchase Cost (Rs. Crore)	Average Rate (Rs./kWh)
1	Dadri TPS	567.70	287.20	5.06
2	Badarpur TPS	234.63	134.88	5.75
3	Pragati I	436.42	266.30	6.10
4	Pragati III- CCGT Bawana	210.38	146.22	6.95
5	DMSWSL	5.63	3.96	7.03
6	EDWPCL*	0.66	-	
	Total	1,455.42	838.56	5.76

**No payment has been made to the generator in FY 2017-18. The order regarding allocation and tariff for the station has been notified in Case 27/2018 on Nov 2, 2018.*

2.7 Short Term Power Purchase and Sale

2.7.1 NDMC prays to the Hon'ble Commission to approve the cost of Short Term Power Purchase and Revenue from Short Term Power Sale as below.

Table 8: Short Term Power Purchase and Sale for FY 2018-19

S. No.	Particulars	Power	Amount	Average Rate (Rs./kWh)
		Quantum	(Rs. Crore)	
1	Bilateral	195.77	104.70	5.35
2	Banking			
3	IDT	3.22	0.77	2.40
4	UI	33.21	11.84	3.56
5	IEX	33.61	13.64	4.06
6	PXIL			
	Total Purchases	265.82	130.95	
1	Bilateral	57.27	22.21	3.88
2	Banking			
3	IDT	4.39	1.20	2.72
4	UI	46.24	10.38	2.24
5	IEX	151.38	57.18	3.78
6	PXIL			
	Total Sales	259.28	90.95	

Consideration of Quantum of Power purchase and amount:

- Bilateral Sales/Purchase (Magpie-Attawatto, Magpie-Tanmarg, Brenwar, ADHPL, APPCC, Dikchu(SKPPL), KPCPL etc.), Exchange related quantum and purchase have been accounted for the FY based on the bills paid during the Financial year.
- IDT purchases/sales- the units purchased/sold are considered for the financial year only. The amount towards such purchases have been considered as billed/paid during the year.
- UI Sales/purchase- NDMC submits that although the billing for certain months is made after the financial year has completed, however at the time of truing up, the entire sales/purchase and UI quantum is available through SLDC. Accordingly, NDMC has submitted the entire quantum of sales/purchases and corresponding amount realised/likely to be realised from such transactions on accrual basis for FY 2018-19.
- Solar RPO Obligation:** NDMC envisages procurement of Solar power from various sources within its license area through net metering. The Petitioner in FY 2018-19 has tied up short term solar power to the extent of ~55MW from APPCC and accordingly, it plans to procure incremental solar power in the ensuing year 2019-20 from such sources.

2.8 Renewable Purchase Obligation

The renewable purchase obligation fulfilled during FY 2018-19 as below:

Table 9: RPO for FY 2018-19

RPO	Approved in T.O. FY 2018-19			Actual		
	% of Total Energy Sales	Total Sale (Mus)	RE to be Procured in MUs	Total Sales	Mus to be Procured	MUs procured during the year
Solar	4.75%	1,412.67	67.10	1,357.05	64.46	60.34
Other	9.50%		134.20		128.92	93.71
Total			201.31		193.38	154.05

Note: Source of Power Procurement: 1) Solar: - APPCC and Grid Connected, 2) Other: - Magpie-Attawatto, Magpie-Tanmarg, Brenwar.

2.9 Total Power Purchase Cost for True-up

2.9.1 NDMC submits the trued up power purchase cost as below:

Table 10: Total Power Purchase Cost for FY 2018-19 (Rs. Crore)

S. No.	Particulars	Actual
1	Power Purchase Cost	969.52
2	Cost of Short term and Renewable Purchase	
3	Less: Revenue from Sale of Power	
A	Net Power Purchase Cost (1+2+3)	878.56
4	Interstate Transmission Charges	25.96
5	Intrastate Transmission Charges including SLDC	59.67
6	Total Transmission Charges	85.61
B	Total Power Purchase Cost for True-up (A+B)	964.18

Note: Power Purchase Cost and transmission charges over net of rebate

2.9.2 NDMC prays to the Hon'ble Commission to allow the power purchase cost of Rs. 964.18 Crore.

2.10 Operation and Maintenance Expenses

2.10.1 Operation and Maintenance (O&M) Expenses of NDMC consists of the following cost elements:

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

- 2.10.2 **Employee Expenses** comprises of Salaries, dearness allowances, Leave Travel Assistance, Earned Leave Encashment, Other allowances & Relief bonus and Honorarium/Overtime. The impact of actual pay revision has not been implemented in 2017-18. NDMC requests the Hon'ble Commission to kindly consider the formats and approve the actual employee expenses for 2017-18.
- 2.10.3 **Administrative and General Expenses** mainly comprises of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances, other debits.
- 2.10.4 **Repair and Maintenance Expenses** go towards day to day upkeep of distribution functions of NDMC and form an integral part of NDMC's efforts towards reliable and quality power supply to its consumers and reduction of losses in its system.
- 2.10.5 NDMC submits its O&M Expenses as detailed in the petition and prays to the Hon'ble Commission to approve the same.

Table 11: O&M Expenses FY 2018-19 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order for FY 2018-19	Actual
1	Employee Expenses	-	216.13
2	A&G Expenses	-	7.44
3	R&M Expenses	-	13.29
4	Gross O&M Expenses	194.27	236.86

2.11 Administrative and Civil Engineering Department Expenses

- 2.11.1 Regarding the allocation of Civil Engineering Department expenses to electricity supply business; the Commission in its tariff order for NDMC for FY 2005-06 dated 02/11/2005 mentioned the following:

"..... As the exact details of the cost of the works carried out by the Civil Engineering Department for Electricity Department are not available at this stage, the Commission, for the purpose of determination of ARR for FY 2005-06, has considered a Lump sum amount of Rs. 1000 Lakh on provisional basis towards this expenditure. The Commission will consider the actual cost of works carried out by Civil Engineering Department for electricity appropriately during the truing up process at the end of the year..."

2.11.2 Since NDMC is yet to segregate the expenses shared by its Civil Engineering Department on account of electricity distribution business, hence NDMC requests the Commission to consider the same amount of Rs. 10 Cr against this head.

2.11.3 Further to the above and in respect of allocation of the Administrative Department expenses, Commission in the same tariff order has mentioned the following:

"... Thus, while 19% of total administrative department expenses have been considered to be allocated to electricity department, an amount....."

2.11.4 NDMC submits the Administrative Department expenses for FY 2018-19 as under.

Table 12: Administrative and Civil Engineering Department Expenses for FY 2018-19 (Rs. Crore)

S. No.	Particulars	Actual
1	Civil Engineering Department Expenses	10.00
2	Administrative Department Expenses	35.17
3	Total Administrative and Civil Engineering Expense	45.17

2.11.5 Administrative and Civil Engineering Expense are not included in Tariff Hike.

2.12 Non-Tariff Income

2.12.1 NDMC has considered the non-tariff income from the sale of electricity as per actuals of FY 2018-19. Its nil for FY 2018-19

Table 13: Non-Tariff Income for FY 2018-19 (Rs. Crore)

S. No.	Particulars	Actual
1	Non-Tariff income	-

2.13 Capital Expenditure and Capitalisation

2.13.1 NDMC had appointed SBI Caps as external consultant to determine the actual assets and balance sheet of the Electricity Distribution Business Unit. Based on the report and subsequent capitalisation of assets, NDMC submits the following details for capital Expenditure and Capitalisation FY 2018-19.

Table 14: Gross Fixed Assets for FY 2018-19 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2018-19	Actual
1	Opening GFA	671.70	929.57
2	Capitalisation	101.10	-
3	Closing GFA	772.80	929.57
4	Average GFA	722.25	929.57

2.14 Depreciation

2.14.1 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 for the control period is determined by applying depreciation rate as approved by the Hon'ble Commission in its tariff order for the control period. Depreciation has been computed at 3.60% of average GFA during the year. The table below summarizes the depreciation claimed by NDMC.

Table 15: Depreciation for FY 2018-19 (Rs. Crore)

S.N.	Particulars	Actual
1	Average GFA	929.57
2	Average Consumer Contribution	9.35
3	Average Assets Net of Consumer Contribution	920.22
4	Average Depreciation Rate	3.60%
5	Depreciation	33.13

2.15 Cumulative Depreciation

2.15.1 NDMC submits the accumulated depreciation till FY 2018-19 as below.

Table 16: Cumulative Depreciation till FY 2018-19 (Rs. Crore)

S. No.	Particulars	Actual
1	Opening Balance of Cumulative Depreciation	559.73
2	Addition during the year FY 2018-19	33.13
3	Closing Balance of Cumulative Depreciation	592.86

2.16 Utilization of Depreciation

2.16.1 NDMC submits to the Hon'ble Commission that no portion of the depreciation has been used to repay any actual debt in FY 2018-19.

Table 17: Utilization of Depreciation for FY 2018-19

S. No.	Particulars	Actual
1	Depreciation for FY 2018-19	33.13
2	Depreciation utilized for Debt repayment in FY 2018-19	0

2.17 Working Capital

2.17.1 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 18: Determination of Working Capital for FY 2018-19 (Rs. Crore)

S. No.	Particulars	Approved in T.O FY 2018-19	Actual
1	Receivables from sale of Electricity	1100.00	1,333.07
2	Receivables Equivalent to 2 months	183.33	222.18
3	Net Power Purchase Expense (Including Transmission, SLDC, RPO and normative rebate)	839.08	964.18
4	1/12th of Power Purchase Expense	69.92	80.35
5	Total Working Capital	113.41	141.83
6	Less: Opening Balance of Working Capital	155.27	130.73
7	Change in Working Capital	(41.86)	11.10

2.18 Regulated Rate Base

2.18.1 The Regulated Rate Base has been computed below for FY 2018-19 based on the DERC Tariff Regulations 2017 and submitted for the approval of the Hon'ble Commission.

Table 19: Regulated Rate Base for FY 2018-19 (Rs. Crore)

S. No.	Particulars	Approved in Tariff Order FY 2018-19	Actual for 2018-19
1	RRB - Base Year		
A	Opening Balance of GFA	671.70	929.57
B	Opening Balance of Working Capital	147.74	130.73
C	Opening Balance of Accumulated Depreciation	429.60	559.73

S. No.	Particulars	Approved in Tariff Order FY 2018-19	Actual for 2018-19
D	Opening balance of Accumulated Consumer Contribution (in proportion of OCFA to total OCFA + CWIP + Stores)	9.35	9.35
E	(A+B)-(C+D) i.e., RRB opening	380.49	491.22
2	RRB - for the year		
F	Investments in capital expenditure during the year	25.57	-
G	Depreciation for the year	8.34	33.13
H	Consumer Contribution, Grants, etc. for the year	-	-
I	Fixed asset retirement/Decapitalisation applicable		0.08
J	Change in Working Capital	(41.86)	11.10
K	Change in RRB During 2017-18 [(F-G-H) / 2 + J]		-5.46
3	RRB Opening Balance		491.22
	RRB for the year		-5.46
	RRB Closing (E+F+H-G)		485.76
4	Opening in Regulated Rate Base (RRB) (i)		491.22
	Change in RRB		-5.46
	Regulated Rate Base (RRB) (i)	372.23	485.76

2.19 Return on Capital Employed

2.19.1 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 9.73% at the same rate as approved by the Hon'ble Commission for TPDDL. Detailed calculation of Weighted average cost of capital (WACC) leading up to estimation of RoCE is shown in the table below:

Table 20: Return on Capital Employed for FY 2018-19 (Rs. Crore)

S. No.	Description	Approved in Tariff Order FY 2018-19	Actual
1	RRB	373.33	485.76
2	Working Capital Loan		141.83
3	Net Regulated Rate Base (RRB)		343.93
4	Equity Rate	16%	16%
5	Debt Rate	8.10%	9.73%
6	Equity (%)	30%	30%
7	Debt (%)	70%	70%
8	WACC	10.47%	11.06%
9	Return on Capital Employed (ROCE)	38.97	53.73

2.20 Income Tax

2.20.1 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 required.

2.21 Aggregate Revenue Requirement for Truing up for FY 2018-19

2.21.1 NDMC submits before the Hon'ble Commission the Aggregate Revenue Requirement for FY 2018-19

Table 21: Trued up ARR for FY 2018-19 (Rs. Crore)

S. No.	Description	Approved in Tariff Order	Actual
1	Cost of power purchase, including T&D Losses	839.08	878.56
2	Inter-State Transmission charges		26.02
3	Intra-state Transmission charges (Including SLDC charges)		59.59
	Rebate on Timely payments		-
4	Net Operation & Maintenance (O&M)	194.27	236.86
5	Depreciation	25.57	33.13
6	Administrative Dept. & Civil Eng. Dept.	0.00	45.17
7	RoCE	38.97	53.73

S. No.	Description	Approved in Tariff Order	Actual
8	Income Tax	0.00	-
9	Less: Non-Tariff Income	2.93	-
10	Aggregate Revenue Requirement	1,094.96	1,333.07

2.21.2 The Hon'ble Commission is requested to approve and allow the Aggregate Revenue Requirement of Rs. 1333.07 Crore as presented above, as against the Approved Aggregate Revenue Requirement of Rs. 1094.96 Crore.

2.22 Revenue (Gap)/Surplus

2.22.1 The overall gap based on the actual expenses and revenue during FY 2017-18 is Rs. 7.99 Crore. The same is provided in the table below:

Table 22: Revenue Gap/ Surplus for FY 2018-19 (Rs. Crore)

S. No.	Particulars	Approved	Actual
1	Aggregate Revenue Requirement, FY 2018-19	1094.96	1,333.07
2	Revenue Available Towards ARR	1144.31	1,325.08
3	Revenue (Gap)/Surplus	49.34	(7.99)

3 ARR FOR FY 2019-20

The Petitioner submits that for the FY 2019-20, it has not proposed any change from the ARR approved by the Hon'ble Commission. The energy sales in the NDMC license 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 2019-20. 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 2019-20 is detailed in the following paragraphs:

3.1 Energy Sales

The Hon'ble Commission approved the following energy sales for 2019-20:

Table 23: Category-wise Energy Sales approved by the Commission for FY 2019-20 (MU)

S.N	Category	Petitioner's Submission	Approved
A	Domestic	250.16	250.16
B	Non-Domestic	251.54	251.54
C	Mixed Load*	676.44	676.45
D	Small Industrial Power	0.05	0.05
E	Public Lighting	7.80	7.80
F	DMRC	53.18	53.18
G	Others	14.40	14.05
H	Total	1253.17	1253.23

*Mixed Load includes Non-Domestic LT above 140Kw/ 150 kVA and Non-Domestic HT

3.2 Revenue Estimate

The Hon'ble Commission approved the following revenue estimation for 2019-20:

Table 24: Revenue estimated by the commission for FY 2019-20 at the existing Tariff (Rs. Cr.)

S. No.	Category	Fixed Charges	Energy Charges	Total Revenue
A	Domestic	20.90	131.82	152.72
B	Non-Domestic	166.28	742.39	908.67
C	Small Industry Power	0.02	0.03	005
D	Public Lighting	-	6.09	6.09
E	DMRC	1.20	30.58	31.78

S. No.	Category	Fixed Charges	Energy Charges	Total Revenue
F	Others	0.47	26.89	27.36
G	Total	188.87	937.80	1126.67

3.3 Distribution Loss and Collection Efficiency

The Hon'ble Commission approved the following distribution loss and collection efficiency for 2019-20:

Table 25: Distribution Loss target and collection efficiency for FY 2019-20 (%)

Particulars	Approved
Distribution Loss Target	9.00%
Collection Efficiency	99.50%

3.4 Energy Requirement

The Hon'ble Commission approved the following energy requirement for 2019-20:

Table 26: Energy Requirement for FY 2019-20

S. No.	Particulars	UoM	Approved Energy Requirement
A	Energy Sales	MU	1253.23
B	Distribution Loss	MU	123.95
		%	9.00
C	Energy Requirement	MU	1377.17

3.5 Energy Availability

The Hon'ble Commission approved the following energy available for 2019-20:

Table 27: : Energy available to Petitioner from Central and State Generating stations and other Generating Stations approved for FY 2019-20

Station	Plant capacity	NDMC share	Petitioner's Share	Energy NDMC
	(MW)	(%)	(MW)	(MU)
DADRI TPS	840.00	14.88%	125.00	527.04
Pragati-I	330.00	30.30%	100.00	446.92
Pragati-III, Bawana	1371.20	7.30%	100.00	204.11
DMSWSL	24.00	5.09%	0.01	4.71
Solar Net Metering				5.66
Total	3270.20		450.01	1188.44

3.6 Power Purchase Cost for Generating Stations

The Hon'ble Commission approved the following power purchase cost for 2019-20:

Table 28: Power Purchase Cost for various generating station for FY 2019-20

Station	Energy (MU)	Fixed Cost (Rs. Cr.)	Variable Cost (Rs. Cr)	Total Charges (Rs. Cr.)	Avg. Rate (Rs./kWh)
DADRI TPS	527.04	73.81	171.29	245.10	4.65
Pragati-I	446.92	46.49	245.81	292.30	6.54
Pragati_III, Bawana	204.11	97.34	75.32	172.66	8.46
Grid connected Solar	4.71	-	2.36	2.36	5.00
DMSWSL	5.66	-	3.98	3.98	7.30
Total of SGS	661.40	143.83	327.46	471.29	
Total	1188.44	217.65	498.74	716.39	6.03

3.7 Renewable Power Purchase Obligation

The Hon'ble Commission approved the following RPO for 2019-20:

Table 29: Targets for Renewable Power Purchase Obligation

S. No.	Parameter	FY 2019-20
A	Solar Target (Minimum)	6.75%
B	Total RPO	17.00%

Table 30: Procurement from Renewable Energy under RPO

Power Source	Approved energy sales (MU)	% of Total Energy Sales Approved in Regulations	Renewable energy to be procured (MU)
Solar	1412.67	6.75%	84.59
Non Solar		10.25%	128.46
Total	-	-	213.05

3.8 Power Purchase Cost

The Hon'ble Commission approved the following power purchase cost for 2019-20:

Table 31: Power Purchase Cost for FY 2019-20

S.N	Particulars	Approved		
		Quantity (MU)	Amount (Rs. Crore)	Average cost (Rs./kWh)
A	Power Purchase from CSGS except BTPS, SGS and RE Plants	527.04	245.10	4.65

S.N	Particulars	Approved		
		Quantity (MU)	Amount (Rs. Crore)	Average cost (Rs./kWh)
B	Power Purchase from Short Term Small Hydro	213.74	96.18	4.50
C	Inter State Losses & Charges	12.20	33.36	
D	Power Purchase from SGS excluding RE	651.03	464.96	
E	Power purchase from Renewable Energy in State	10.37	6.33	
F	Power Available at Delhi Periphery	1389.96	845.94	6.20
G	Intrastate Losses & Charges including SLDC charges	12.79	66.18	
H	Power Purchase Rebate on CSGS @ 1.5%		3.68	
I	Power Purchase Rebate on SGS & Short Term Purchase @ 2%		11.35	
J	Interstate Transmission Rebate @ 1.5%		0.50	
K	Intrastate Transmission Rebate @ 2%		1.32	
L	Total Rebate on Transmission and Power Purchase		16.85	
M	Power Available to DISCOM	1377.17	895.27	6.50
N	Sales	1253.23		
O	Distribution Loss	123.95		
P	Cost towards Renewable Energy Certificates Purchase		8.95	
Q	Net Power Purchase cost including transmission charges and RPO	1377.17	904.21	6.57

3.9 Operation and Maintenance Expenses

The Hon'ble Commission approved the following O & M Expenses for 2019-20:

Table 32: Gross O & M Expenses approved for FY 2019-20 (Rs. Crore)

Particulars	Petitioner's Submission	Approved
O&M Expenses	258.90	190.98

3.10 Capitalization

The Hon'ble Commission approved the following capital investment plan for 2019-20:

Table 33: Capital Investment Planned/ Capitalization for FY 2019-20 (Rs. Crore)

Particulars	FY 2019-20
Renovation and Modernization of 33/11 KV SS	8.22
UG Cables	8.09
Installation of Distribution transformer	1.10
Capacity enhancement of LT substation	14.39
Capacitor bank	0.32
Metering	12.24
Others	29.85
Total	74.22

3.11 Gross Fixed Assets

The Hon'ble Commission approved the following GFA and depreciation for 2019-20:

Table 34: GFA and Depreciation considered for FY 2019-20 (Rs. Crore)

S. No	Particulars	Approved
A	Opening balance of Gross Fixed Assets	628.89
B	Addition During the year	74.22
C	Closing Balance of Gross Fixed Assets	703.11
D	Average Balance of Gross Fixed Assets	
E	Opening Balance of Consumer Contribution	20.14
F	Addition during the year	8.34
G	Closing balance of Consumer Contribution	28.48
H	Average Balance of Consumer contribution/Government Grant	24.31
I	Average Balance of GFA Net of Consumer Contribution	641.69
J	Depreciation Rate (%)	3.60%
K	Depreciation	23.10

3.12 Working Capital

The Hon'ble Commission approved the following working capital for 2019-20:

Table 35: Working Capital for FY 2019-20

S. No.	Particulars	FY 2019-20
A	Receivables from sale of electricity	1142.18
B	Receivables equivalent to 2 months	190.21
C	Net power Purchase Cost	904.21
D	Less; 1/12 th Power Purchase Cost	75.35
E	Total Working Capital	115.00
F	Less: Opening WC	113.41
G	Change in Working Capital	1.59

3.13 Non- Tariff Income

The Hon'ble Commission approved the following Non-tariff income for 2019-20:

Table 36: Non-Tariff Income for FY 2019-20

Non-Tariff Income	FY 2019-20
Total	2.93

3.14 Regulated Rate Base

The Hon'ble Commission approved the following Regulated Rate base for 2019-20:

Table 37: RRB considered by the Commission for FY 2019-20 (Rs. Crore)

S. N.	Particulars	Approved
A.	Opening Original Cost of Fixed Assets (OCFA ₀)	628.89
B.	Opening Accumulated depreciation (AD ₀)	452.47
C.	Opening consumer contributions (CC ₀) / grant	20.14
D.	Opening Working capital (WC ₀)	113.41
E.	Opening RRB (RRB ₀)	269.69
F.	Investment capitalized during the year (INV _i)	74.22
G.	Depreciation during the year (Di)	23.10
H.	Government Grant during the year (CC _i)	8.34
I.	Change in capital investment (ΔAB_i)	42.78
J.	Change in working capital during the year (ΔWC_i)	1.59
K.	RRB Closing	314.57
L.	RRB _i	292.66

3.15 Return on Capital Employed

The Hon'ble Commission approved the following RoCE for 2019-20:

Table 38: Return on Capital Employed for FY 2019-20

S. N	Particulars	UOM	Approved
A	RRB _i	Rs.Cr	292.66
B	Opening Equity for Capitalisation (limited to 30%)	Rs.Cr	46.88
C	Closing Equity limiting to 30% of net capitalisation	Rs.Cr	59.72
D	Average Equity for Capitalisation (limited to 30%)	Rs.Cr	53.30
E	Opening Debt at 70% of net capitalisation	Rs.Cr	109.40

S. N	Particulars	UOM	Approved
F	Closing Debt at 70% of net capitalisation	Rs.Cr	139.34
G	Avg Debt at 70% of net capitalisation	Rs.Cr	124.37
H	Debt at 100% of working capital	Rs.Cr	115.00
I	Debt- balancing figure	Rs.Cr	239.36
J	Rate of return on equity (re)	%	16.00
K	Rate of debt (rd) on capitalisation	%	8.00
L	Rate of debt (rd) on working Capital	%	8.00
M	Rate of interest on debt(rd)	%	8.00
N	WACC	%	9.46
O	RoCE	Rs.Cr	27.68

3.16 Income Tax

No income tax is allowed for FY 2019-20 as NDMC is exempt from Income Tax.

3.17 Aggregate- Revenue Requirement

The Hon'ble Commission approved the following ARR for 2019-20:

Table 39: Aggregate-Revenue Requirement for FY 2019-20 (Rs. Crore)

S. No.	Particulars	FY 2019-20
A	Net Power Purchase Cost	904.21
B	Operation & Maintenance (O& M)	190.98
C	Depreciation	23.14
D	Administrative Dept. & Civil Engg. Dept.	0
E	RoCE	27.68
F	Income Tax	0
G	Less: Non-tariff Income	(3.89)
H	Aggregate Revenue Requirement	1142.08

3.18 The Revenue Surplus/ (Gap) for FY 2019-20 is as follows: -

S. No	Particulars	FY 2019-20
A	Aggregate Revenue Requirement	1142.08
B	Revenue Available Towards ARR at existing tariff	1117.01
C	Revenue (Gap)/Surplus	(25.06)

The Petitioner submits that no change in the ARR as approved by the Hon'ble Commission has been proposed as part of this petition. The Petitioner will submit the actual expenditure in the subsequent petition at the time of truing up for 2019-20.

4 AGGREGATE REVENUE REQUIREMENT FOR FY 2020-21

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 license area have remained stagnant over the last few years. Accordingly, for the purpose of projections of sales for 2020-21, the Petitioner has not considered any change in the sales from the actual sales in 2018-19.

4.1.3 Accordingly, the following sales projections have been considered for FY 2020-21

Table 40: Category-wise Energy Sales for FY 2020-21 (MU)

S. No.	Category	FY 2020-21
1	Domestic	224.50
2	Non-domestic	1070.05
3	Small Industrial Power	0.03
4	Public Lighting	7.07
5	DMRC	40.97
6	Other	14.59
	Total	1357.21

4.2 Collection Efficiency

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

4.2.2 NDMC has considered 99% collection efficiency for FY 2020-21 and the same has been considered for estimation of AT&C Losses.

4.3 Distribution Loss

4.3.1 The DERC Tariff Regulations, 2017 specifies:

"5...

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

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

4.3.2 NDMC has envisaged a distribution loss of 10% considering that capital expenditure is being incurred towards strengthening of the distribution system. Considering that incremental loss reduction would be capex intensive and difficult to achieve, the distribution loss has been proposed as 10%.

Table 41: Distribution Loss for FY 2020-21

S. No.	Particulars	FY 2020-21
1	Distribution Loss	9.50%

4.4 AT&C Loss

4.4.1 The DERC Tariff Regulations, 2017 specifies

"5...

(9) The AT&C Loss shall be the relationship between Distribution Loss and Collection Efficiency computed as per the following formula:

$$AT\&C\ Loss = [1 - (1 - Distribution\ Loss) * Collection\ Efficiency)] * 100$$

where,

AT&C Loss, Distribution Loss and Collection Efficiency are in (%) percentages"

- 4.4.2 NDMC submits that it has projected a constant collection efficiency of 99% for the FY 2020-21, as achieving 100% collection efficiency in the retail supply business is unlikely. Therefore, based on the projected distribution loss and 99% collection efficiency, the AT&C Loss for FY 2020-21 is tabulated in the table below:

Table 42: AT&C Loss for FY 2020-21

S. No.	Particulars	FY 2020-21
1	Distribution Loss (%)	9.50%
2	Collection Efficiency (%)	99.00%
3	AT&C losses (%)	10.43%

4.5 Energy Requirement

- 4.5.1 Based on the projected Energy Sales and Distribution Loss for FY 2020-21, the energy requirement for NDMC is projected as under:

Table 43: Energy Requirement Projections for FY 2020-21

S. No.	Particulars	FY 2020-21
	Energy Requirement	
1	Energy Sales (MU)	1357.05
2	Distribution Loss (%)	9.50%
3	Distribution Loss (MU)	142.47
4	Energy Required at Distribution Periphery (MU)	1499.69

4.6 Energy Availability

- 4.6.1 The energy requirement for NDMC is projected to be met from various sources namely;
- Power Purchase from NTPC- Dadri Thermal Power Station.
 - Power Purchase from plants located in Delhi- Pragati I and Pragati III (Bawana), Delhi MSW Solutions Ltd. and EDWPCL (3.77% of capacity).
 - The energy projections of these plants have been considered based on past trends. Further, an escalation factor of 2% on adhoc basis has been considered

As (Power)

to project the corresponding fixed and energy charges for such plants.

- d) Besides the above, NDMC has considered Sale / Purchase from Short-Term sources viz. Bilateral and exchange.
- e) The Petitioner further submits that it has adequate power availability from other renewable sources and is actively in discussions with Ministry of Power to source clean/green energy for its license area. Developments in this regard have already been shared with the Hon'ble Commission. 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 to not 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 sources available for Delhi Discoms in consultation with NDMC.

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

Table 44: Energy Availability Assumptions

S. No.	Power Plant	Total Installed Capacity (MW)	Firm % Share
1	Dadri TPS	840.00	14.88%
2	Pragati Power Corp I	330.00	30.30%
3	PPCL III	1,371.20	7.30%
4	DMSWSL	24.00	5.09%

**As per DERC order in Case 10/2019 dated 31.07.2019*

- 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. However, the last few years have witnessed a fall in PLF for the generating stations from which NDMC is presently procuring power. This has been taken into account for all projections made for FY 2020-21.

- 4.6.5 NDMC has considered the availability of power from such sources in the past (except BTPS) and has accordingly worked out the expected availability from such stations for FY 2020-21. The overall estimated quantum of power to be purchased from each of the sources is provided in the appropriate formats and the same may kindly be approved by the Hon'ble Commission.
- 4.6.6 Presently, NDMC don't envisage any shortfall in available power. However, in case of extreme emergency situation, NDMC is positive that the shortfall in individual months shall be met from the power purchase agreements with Small Hydro Plants during the FY 2020-21. Further, NDMC has allocations from Delhi MSW Solutions Ltd, Bawana, EDWPCL in lines 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 deficits as and when required.
- 4.6.7 **Solar RPO Obligation:** NDMC envisages procurement of Solar power from various sources within its license area through net metering. The Petitioner in FY 2018-19 has tied up short term solar power to the extent of ~55MW from APPCC and accordingly, it plans to procure incremental solar power in the ensuing year 2020-21 from such sources. NDMC submits that it is making incremental efforts and exploring possibilities of purchasing solar power through SECI. The same is likely to increase the solar purchase in its power procurement portfolio and will meet the Solar RPO going forward.
- 4.6.8 NDMC has projected Non-Solar RPO from various sources including Small Hydro Projects, Delhi MSW Solutions Ltd. and EDWPCL 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 for FY 2020-21. For EDWCPL, the tariff has been considered as approved by the Hon'ble Commission in the tariff order for EDWPC (Petition No. 27/2018).
- 4.6.9 **Consideration for Unique Load Curve of NDMC:** NDMC submits that its license 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. and also 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 2020-21 after considering the projected sales, AT&C loss levels, transmission losses, power purchase and sale of surplus power.

Table 45: Energy Balance Projections for FY 2020-21 (in MU)

S. No.	Particulars	FY 2020-21
A	Energy Requirement	
1	Energy Sales	1357.05
2	Distribution Loss (%)	9.50%
3	Distribution Loss (MU)	142.47
4	Energy Required at Distribution Periphery	1499.69
B	Energy Availability	
1	Power Purchase from CGS outside the State	567.70
2	Interstate Transmission Losses	9.37
3	Net Power Purchase from Central Stations	558.33
4	Power Purchase from within the State	646.70
5	DMSWSL and EDWPCL	6.63
6	Power Purchase from Short Term Sources including ST Renewable	302.40
7	Gross Power Purchase Quantum	1,514.06
8	Intra State Transmission Loss	13.93
9	Net Power Available at NDMC Periphery	1,500.13
10	Sale of Surplus Power	-
11	Net Power available for Retail Sales	1,500.13

4.8 Operations and Maintenance Expenses

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

4.8.2

"92. Normative Operations and Maintenance expenses of a Distribution Licensee shall consist of:

- a) Employee Expenses,
- b) Administrative and General Expenses; and
- c) Repair and Maintenance Expenses.

93. Normative Operation and Maintenance expenses of a Distribution Licensee for a Control Period shall be derived on the basis of audited Operation and Maintenance expenses for last five (5) completed Financial Years vis-à-vis normative Operation and Maintenance expenses allowed by the Commission during the corresponding period based on the following parameters:

- a) Load growth,
- b) Consumer growth,
- c) Commercial loss,
- d) Distribution loss,
- e) Inflation,
- f) Efficiency,
- g) Capital base and,
- h) Any other factor."

4.8.3 NDMC submits actual employee expenses for 2018-19 have been escalated at 5.61% (escalation factor considered by the Hon'ble Commission in the tariff order for 2018-19) to arrive at the employee expenses in FY 2020-21. NDMC will submit the actual expenses at the time of truing up and also provide justification of deviations, if any at that stage.

4.8.4 The Petitioner submits that NDMC was not a party to the Transfer scheme notified for unbundling of erstwhile DVB. Being an independent licensee, no man, material and assets of erstwhile DVB were transferred to NDMC as part of the transfer scheme. Accordingly, no liability of the Employee Pension Trust should be borne by the consumers in the NDMC license area. It is therefore requested that the Hon'ble Commission may kindly consider the aforesaid submissions while deciding such matters.

4.8.5 On similar lines, the actual expenses for A & G and R & M as considered in 2017-18 have been escalated at 5.61% to arrive at the normative expenses for FY 2020-21. Repairs and Maintenance expenses are critical for ensuring reliable and quality power supply in the NDMC license area and therefore NDMC requests the Hon'ble Commission to consider the submissions and approve the O & M expenses as requested in this petition.

4.8.6 The O&M Expenses projected for FY 2020-21 are as follows:

Table 46: O&M Expenses Projected for FY 2020-21 (Rs. Crore)

S. No.	Particulars	FY 2020-21
1	Employee Expenses	241.07
2	A & G	8.29
3	R & M	14.83
4	O&M Expenses	264.18

4.8.7 NDMC requests the Hon'ble Commission to approve the O&M costs for FY 2019-20 as submitted above and allow the actual costs to be considered during True-up of the respective period.

4.9 Allocation of Administrative Department and Civil Engineering Department Expenses

NDMC submits that it has a separate administration department consisting of NDMC Board, Finance Department, General Administration, Law Department, Public Relations, Staff and Labour welfare, Vigilance department, Auto workshop, Information & Technology, Engineer-in-Chief etc. Also, there is a separate Civil Engineering Department and the services of the department are utilized for the civil works undertaken for electricity substation, lines and other electrical works. Thus, the services of the Administration & Civil Engineering Department are common to all the functions carried out by NDMC and the expenditure pertaining to these departments should be allocated to all functions of NDMC.

4.9.1 NDMC submits that it is in a process to segregate the Accounts of Electricity Division. This activity of segregation was assigned to SBI Caps, however, the completion of this activity has got delayed. The process of segregation of Accounts of Electricity Division is still under progress and expected to complete shortly. Till such time the Accounts are segregated, NDMC

proposes to consider the submissions as made in the current petition and requests the Hon'ble Commission to kindly approve the same.

Table 47: Allocation of Administrative Department and Civil Engineering Department Expenses (Rs. Crore)

S. No.	Particulars	FY 2019-20
1	Allocation of Administrative Expenses to Power SBU	10.00
2	Cost of Civil Engineering Department	35.17
	Total	45.17

4.10 Capital Investment and Capitalization

4.10.1 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:*

- a) *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),*
- b) *Capital Structure,*
- c) *Capitalization Schedule,*
- d) *Financing Plan,*
- e) *Cost-benefit analysis,*
- f) *Performance improvement envisaged in the Control Period,*
- g) *Any other factors influencing investment,*

..."

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

4.11 Depreciation

NDMC submits to apply an average rate of depreciation for distribution assets @ 3.60 % for computing depreciation for FY 2020-21.

Table 48: Projected Depreciation of Fixed Assets for FY 2020-21 (Rs. Crore)

S. No.	Particulars	Projections
1	Average GFA	1,003.79
2	Average Consumer Contribution	17.69
3	Average Assets Net of Consumer Contribution	986.10
4	Average Depreciation Rate	3.60%
5	Depreciation	35.50

4.11.1 NDMC submits that the Gross Fixed Assets has been arrived based on the Draft Report submitted by SBI Caps with regards to separation of assets and accounts for Electricity Distribution SBU of NDMC and the actual capital expenditure and capitalization for FY15, FY16, FY 17, FY 18, approved capitalization for FY 19 and projected capitalisation in FY 20.

4.12 Working Capital

4.12.1 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.

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

Table 49: Projected Working Capital for FY 2020-21

S. No.	Particulars	FY 2020-21
1	ARR for two months for retail supply business of Electricity	225.44
2	Less: Net Power Purchase Cost for one month	79.74
3	Less: Transmission Charges for one month	
4	Working Capital	145.69

4.13 Non-Tariff Income

4.13.1 NDMC has proposed Non-Tariff Income same as the values approved for FY 2019-20 as provided below:

Table 50: Non-Tariff Income FY 2020-21

Non-Tariff income	FY 2020-21
Total	2.93

4.14 Return on Capital Employed

4.14.1 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 of normative debt - equity ratio of 70:30, and calculated WACC considering return on equity at the rate of 16% and cost of debt at 9.73%. Detailed calculation of Regulated Rate Base, Change in Working Capital, WACC leading up to estimation of RoCE is shown in table below:

Table 51: RRB for FY 2020-21 (Rs. Crore)

S. No.	Particulars	FY 2020-21
1	RRB - Base Year	
A	Opening Balance of GFA	1,003.79
B	Opening Balance of Working Capital	106.21
C	Opening Balance of Accumulated Depreciation	627.17
D	Opening balance of Accumulated Consumer Contribution (in proportion of OCFA to total OCFA + CWIP + Stores)	17.69
E	(A+B)-(C+D) i.e., RRB opening	465.14
2	RRB - for the year	
F	Investments in capital expenditure during the year	-
G	Depreciation for the year	35.50
H	Consumer Contribution, Grants, etc. for the year	-
I	Fixed asset retirement/Decapitalization applicable	
J	Change in Working Capital	39.48
K	Change in RRB During 2018-19 [(F-G-H)/2+J]	21.73
3	RRB Opening Balance	465.14
	RRB for the year	21.73
	RRB Closing (E+F+H-G)	486.87
4	Opening in Regulated Rate Base (RRB) (i)	465.14

S. No.	Particulars	FY 2020-21
	Change in RRB	21.73
	Regulated Rate Base (RRB) (i)	486.87

4.15 Return on Capital Employed

4.15.1 NDMC has adopted rate of return on equity for FY 2020-21 at 16% as per DERC Tariff Regulations, 2017. Interest rate on the Debt has been taken as 9.73% for FY 2020-21 as already detailed in the true-up of 2018-19. The said rate may kindly be considered as per prevailing rates in the market at the time of truing up for FY 2020-21.

Table 52: Return on Capital Employed for FY 2019-20 (Rs Crore)

S. No.	Particulars	FY 2019-20
1	Regulated Rate Base (RRB)	486.87
2	Working Capital Loan	145.69
3	Net RRB	341.18
4	Rate of return on Equity	16%
5	Rate of Return on Debt	9.73%
6	Weighted Average Cost of Capital (WACC)	11.05%
7	Return on Capital Employed (RoCE)	53.79

4.16 Income Tax

NDMC being exempted from Income tax has not proposed any tax liability for FY 2020-21. However, the petitioner request Hon'ble Commission to allow tax liability in future in case required.

4.17 Aggregate Revenue Requirement

4.17.1 NDMC submits the Aggregate Revenue Requirement for FY 2020-21 as below:

Table 53: ARR for FY 2020-21 (Rs. Crore)

S. No.	Particulars	FY 2020-21
1	Cost of power purchase, including T&D Losses	871.11
2	Inter-State Transmission charges	28.75
3	Intra-state Transmission charges including SLDC charges	57.04
	Rebate on Timely Payments	-

S. No.	Particulars	FY 2020-21
4	Net Operation & Maintenance (O&M)	264.18
5	Depreciation	35.50
6	Administrative Dept. & Civil Engg. Dept	45.17
7	RoCE	53.79
8	Income Tax	-
9	Aggregate Revenue Requirement	1355.54
10	Less: Non-Tariff Income	2.93
11	Net ARR	1,352.61
12	Revenue At Existing Tariff	1296.09
	Gap for 2020-21 to be adjusted	(56.52)
13	Gap of 2018-19 to be adjusted	(7.99)
14	Total Revenue gap to be recovered from Tariff in 2019-20	(64.51)

4.18 Tariff Design

4.18.1 There is a total Net Gap of Rs. 64.51 Crore, including Gap for FY 2018-19 amounting to Rs. 7.99 Crore and gap in revenue at existing tariff for FY 2020-21 amounting to Rs 56.52 Crore.

4.18.2 The existing Tariff applicable during FY 2020-21 would generate a revenue of Rs 1296.09 Crore. The recovery of total gap of Rs. 64.51 Crore would require an overall tariff hike of 5%. Therefore, NDMC proposes an average tariff hike of 5% across consumer categories to meet the projected revenue gap at the end of the FY 2020-21.

4.19 Tariff Proposal

4.19.1 NDMC submits that an average hike of 5% would be required in the existing tariff in order to recover the ARR for the year FY 2020-21. The detailed category-wise sales, existing tariff and proposed hike in the tariff for each category is provided in the appropriate formats prescribed by the Hon'ble Commission. The Petitioner requests the Hon'ble Commission to kindly consider the same.

4.19.2 NDMC proposes to keep the remaining terms and conditions of tariff unchanged. NDMC has worked out the Revenue and Average Billing Rate as per Proposed Tariff, which is summarized in the following table.

Table 54: Revenue and ABR for Existing Vs. Proposed Tariff for FY 2020-21

S. No.	Category	FY 2020-21	Revenue at Existing Tariff	Average Billing Rate at Existing Tariff	Hike Proposed in Existing Tariff	Revised Revenue Proposed	Average Billing Rate as per Proposed Tariff
			Rs. Crore	Rs./kWh	%	Rs. Crore	Rs./kWh
1	Domestic	224.50	171.05	7.62	5.00%	179.60	8.00
2	Non-Domestic Low Tension	335.97	331.69		5.00%	348.27	10.37
3	NDHT	734.08	746.88		5.00%	784.22	10.68
4	Small Industrial Power	0.03	0.03	10.50	5.00%	0.03	11.02
5	Public Lighting	7.07	4.92	6.96	5.00%	5.17	7.31
6	Others	14.59	13.52	9.27	5.00%	14.19	9.73
7	DMRC	40.97	28.01	6.84	5.00%	29.41	7.18
	Total	1,357.21	1,296.09	9.55	5.00%	1,360.90	10.03

Annexures

NAME OF DISTRIBUTION LICENSEE: NEW DELHI MUNICIPAL COUNCIL				
Profit & Loss Account				
Sr. No.	Particulars	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
A	Revenue			
1	Revenue from sale of power	1,325.08	1,094.96	1,360.46
3	Non Tariff income	3.89	2.93	2.93
4	Other Revenue/Subsidies-Sourcewise			
	Total Revenue or Income	1,328.97	1,097.89	1,363.39
B	Expenditure			
1	Power Purchase from Long term Sources	747.61	611.69	871.11
2	Power Purchase from Other than Long term Sources	130.95	102.51	
3	Transmission Charges	85.61	99.54	85.79
	(a) Inter-State	59.59	66.18	57.04
	(b) Intra-State Transmission Charges	26.02	33.36	28.75
4	Rebate on Power Purchase Cost	-	16.85	-
5	O&M Expenses	236.86	190.98	264.18
a	R&M Expenses	13.29	190.98	14.83
b	Employee costs	216.13	-	241.07
c	Administration and General expenses	7.44	-	8.29
d	Administrative Dept. & Civil Engg. Dept Expenses	45.17	45.37	45.17
6	Net prior period credit/(charges)			
7	Other Debits, Write offs			
8	Extraordinary items			
9	Less: Expenses Capitalized (A&G/Employee Expenses)			
C	PBDIT	82.76	64.65	97.14
D	Depreciation and Related debits			
1	Depreciation	33.13	23.10	35.50
E	Provisions			
F	PBIT	49.63	41.55	61.64
	Interest & Finance Charges			
	Less: Interest Capitalized			
G	Total Interest and Finance Charges			
H	Total Expenditure			
I	Profit/Loss before Tax	49.63	41.55	61.64
J	Income Tax			
K	Profit/Loss after Tax	49.63	41.55	61.64

Cashflow Statement				
NAME OF DISTRIBUTION LICENSEE: NEW DELHI MUNICIPAL COUNCIL				
All figures in Rs Crores				
	Particulars	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
	Cash inflow			
	Receipts			
	Tariff collection	1,325.08	1,094.96	1,360.46
	Equity Inflow			
	Subsidy received from Govt.			
	Sale of Power/ Advance	90.95	98.37	-
	Rebate on Power Purchase Cost	-	16.85	-
	Consumer Contribution for Capital works	-		
	Term Loan Received			
	Sale of Equipment			
	FD Matured			
	Interest received			
	Dividends			
	Total Cash Inflow	1,416.03	1,210.18	1,360.46
	Cash Outflow			
	Equity Reduction			
	Payment for Power Purchase Cost			
	Short Term Power Purchase payments (incl. advances) (Note, if any)	130.95	102.51	149.94
	Medium Term Power Purchase payments (incl. advances) (Note, if any)			
	Long Term Power Purchase payments (Note, if any)	924.18	809.60	806.95
	TDS deposited on power purchase payments			
	Total payment for power purchase	1,055.13	912.11	956.90
	Other Payments			
	Equity Reduction			
	Salaries, Wages and Other Staff expenses	216.13	-	241.07
	Payment to vendors for Repair and Maintenance(Note, if any)	13.29	190.98	14.83
	Payment for Capital works			
	Administration and Other Payments	7.44	-	8.29
	Administrative Dept. & Civil Engg. Dept Expenses	45.17	-	45.17
	Advances (Refer note)			
	Fixed Assets Purchased	0.00	74.22	-
	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	65.91	-	-
	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	1,403.07	1,177.31	1,266.25
	Net cash generation/(Deficit)	12.97	32.87	94.21
	Opening Cash and Bank Balance*			
	Closing Cash and Bank Balance			

NAME OF DISTRIBUTION LICENSEE: NEW DELHI MUNICIPAL COUNCIL				
Annual Revenue Requirement		Form No: S3		
		All figures in Rs Crores		
	Particulars	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
1	Power Purchase (MU)	1,446.18	1,377.17	1,500.13
2	Sale of Power (MU)	1,357.05	1,253.23	1,357.22
3	Loss %			
3.1	Distribution	6.16%	9.00%	9.53%
3.2	Intra State	0.01	0.01	0.01
3.3	Inter State	0.02	0.02	0.02
1	Receipts	1,325.08	1,094.96	1,360.46
a	Revenue from tariffs			
	i) Fixed Charges	205.35		194.09
	ii) Energy Charges	1,032.40	1,094.96	1,166.38
	iii) PPAC	28.95		-
	iv) Surcharge for Regulatory Asset (8%)	0.01		-
	v) Electricity Duty	65.91	-	-
	vi) Any Other Receipt (Misuse)	2.57		-
b	Revenue subsidy from Govt.	-		
c	Collection Loss	10.10		
	Total	1,325.08	1,094.96	1,360.46
2	Expenditure	1,279.34	1,010.97	1,301.75
a	Purchase of Power from Long Term Sources	838.56	710.06	721.17
b	Purchase of Power from Other than Long Term Source	130.95	102.51	149.94
b2	Sale of Surplus Power	(90.95)	(98.37)	-
c	Transmission Charges	85.61	99.54	85.79
	i) Intra State	59.59	66.18	57.04
	ii) Inter State	26.02	33.36	28.75
d	Rebate on Power Purchase Cost and Transmission Charge	-	(16.85)	-
e	O&M Expenses	236.86	190.98	264.18
	i) R&M Expense	13.29		14.83
	ii) Employee Expenses	216.13	190.98	241.07
	iii) A&G Expense	7.44		8.29
	iv) Administrative and Civil Engg Department Expenses	45.17		45.17
f	Depreciation	33.13	23.10	35.50
g	Interest			
h	Finance Charges			
i	Less: Interest capitalised			
j	Less: Finance charges capitalised			
k	Less: O&M capitalised			
l	Extraordinary Items			
m	Other (Misc.)-net prior period credit/(charges)			
	Total	1,279.34	1,010.97	1,301.75
3	Return as approved/allowed by Commission	53.73	27.68	53.79
	Income Tax			
4	Other Income	-	2.93	2.93
5	Annual Revenue Requirement (2)+(3)-(4)	1,333.07	1,035.72	1,352.61
6	Surplus(+)/Shortfall(-) : (1)-(5) before tariff revision	(7.99)	59.24	7.85

AT&C Losses			
99.24%	100%	99.00%	
6.87%	9.45%	10.43%	

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.)	MUs at Discoms Periphery	Total charges including transmission charges (in Rs/Cr.)	Per Unit cost at Discom Periphery (Rs/AWh)
Power Purchase Statement 2018-19															
Pragati-J	436.42	51.10	218.51	1.00	(7.32)	-	-	-	266.30	6.10	4.02	-	432.40	266.30	6.16
Pragati-PPS III	210.38	66.96	79.47	0.10	(0.31)	-	-	-	146.22	6.95	1.94	-	208.45	146.22	7.01
NTPC- BITS*	234.63	41.37	93.45	0.05	-	-	-	-	134.88	5.75	2.16	-	232.47	134.88	5.80
NTPC- Dadri*	562.70	83.78	203.30	0.12	-	-	-	-	287.20	5.06	14.50	-	553.19	287.20	5.19
Total Long Term PPAs (A)	1,149.13	243.21	594.73	4.28	(7.62)	-	-	-	834.60	5.76	22.61	100.36	1,426.51	934.97	6.55
Long Term - MSW (B)	5.63	-	3.96	-	-	-	-	-	3.96	7.03	0.05	-	5.58	3.96	7.10
Long Term - EDWPL (C)	0.66	-	-	-	-	-	-	-	-	-	0.01	-	0.65	-	-
Total of bilateral purchase (D)	195.77	-	101.70	-	-	-	-	-	104.70	5.35	1.80	-	193.97	104.70	5.40
IEX	33.61	-	13.64	-	-	-	-	-	13.64	4.06	0.31	-	33.30	13.64	4.10
PXII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total of purchase through exchange (E)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Metering and Grid Connected	33.61	-	13.64	-	-	-	-	-	13.64	4.06	0.31	-	33.30	13.64	4.10
Total of banking arrangement (F)	9.40	-	-	-	-	-	-	-	-	-	0.09	-	9.31	-	-
Total of banking purchase (G)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total of intra state purchase (H)	3.22	-	0.77	-	-	-	-	-	0.77	-	-	-	3.22	0.77	-
Total of IJ purchase (I)	33.21	-	11.84	-	-	-	-	-	11.84	3.56	0.31	-	32.91	11.84	3.60
Total Short term and Renewable (J+K+D+E+I)	281.51	-	130.95	-	-	-	-	-	130.95	4.65	2.59	-	278.92	130.95	4.69
Total Power Purchase Cost (J)=(A)+B+C+D+E+G+H)	1,730.64	243.21	729.65	4.28	(7.62)	-	-	-	969.52	5.60	25.17	100.36	1,705.46	1,069.88	6.27
Bulk Power Sale Statement															
IEX	151.38	-	57.18	-	-	-	-	-	57.18	3.78	-	-	151.38	57.18	3.78
PXII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Sale - Exchanges (A)	151.38	-	57.18	-	-	-	-	-	57.18	3.78	-	-	151.38	57.18	3.78
Total of short term bilateral sale (I)	57.27	-	22.21	-	-	-	-	-	22.21	3.88	-	-	57.27	22.21	3.88
Total of banking arrangement (K)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total of intra state sale (L)	4.39	-	1.20	-	-	-	-	-	1.20	-	-	-	4.39	1.20	-
Total of IJ sale (M)	46.24	-	10.38	-	-	-	-	-	10.38	2.24	-	-	46.24	10.38	2.24
Total sale (N)=(A)+I+J+K+L+M)	259.28	-	90.95	-	-	-	-	-	90.95	3.51	-	-	259.28	90.95	3.51
Net Power Purchase Cost (O)=(I-N)	1,471.35	243.21	638.69	4.28	(7.62)	-	-	-	878.56	5.97	25.17	100.36	1,446.18	978.93	6.77

Note: BITS and Dadri (C) and IJ are disallowed - 3 years

NAME OF DISTRIBUTION LICENSEE: NEW DHIRAJ MUNICIPAL COUNCIL

Interstate Loss 1.65%
Intra State Loss 0.92%

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/adj. instrument, 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.)	MUs at Discoms Periphery	Total charges including transmission charges (in Rs/Cr.)	Per Unit cost at Discom Periphery (Rs/KWh)
	Power Purchase Statement 2020-21															
	Pragati-I	436.31	222.83	52.11						274.94	6.30	4.01		432.30	274.94	6.36
	Pragati-PPS III	210.39	81.06	68.30						149.36	7.10	1.94		208.45	149.36	7.17
	NTPS, Dadri	567.70	207.37	85.45						292.82	5.16	14.50		553.20	292.82	5.29
	Total Long Term PPAs (A)	1,214.40	511.26	205.87	-	-	-	-	-	717.13	5.91	20.45		1,193.95	717.13	6.01
	Long Term - MSW (B)	5.63	-	4.04						4.04	7.17	0.05		5.58	4.04	7.24
	Long Term - UPIVIL (C)	1.00	0.37							0.37	1.67	0.01		0.99	0.37	1.67
	Total of bilateral purchase (D)	215.00	-	117.28						117.28	5.46	1.98		213.02	117.28	5.51
	IEX	78.00														
	PXII	78.00														
	Total of purchase through exchange (E)		-	32.29						32.29	4.14	0.72		77.28	32.29	4.18
	Net Metering and Grid Connected	9.40	-	-						-	-	0.09		9.31		-
	Total of banking arrangement (UPIVIL+ KPTDD)(F)															
	Total of intra state purchase (G)															
	Total of UI purchase (H)															
	Total Short term and Renewable (B+C+D+E+F)	309.03	-	113.51						113.51	3.67	2.84		306.19	113.51	3.71
	Total Power Purchase Cost (I)=(A+B+C+D+E+F+H)	1,523.43	511.63	359.48						871.11	5.72	23.30	85.79	1,500.13	956.90	6.38
	Bulk Power Sale Statement															
	IEX															
	PXII															
	Total Sale - Exchanges (J)															
	Total of short term bilateral sale (I)															
	Total of banking arrangement (UPIVIL+ KPTDD)(K)															
	Total of intra state sale (L)															
	Total of UI sale (M)															
	Total sale (N)=(A+J+I+K+L+M)															
	Net Power Purchase Cost (O)=(I-N)	1,523.43	511.63	359.48	-	-	-	-	-	871.11	5.72	23.30	85.79	1,500.13	956.90	6.38

Energy Balance			Form-Fla		
S.No.	Particulars	PY Actual		EY Projection	
		%	MU	%	MU
1	Energy Sales				
	Total Energy Sales		1,357.05		1,357.22
2	Distribution Losses				
	Total Distribution Losses	6.16%	89.14	9.50%	142.47
3	Energy requirement at T-D boundary				
	Total energy requirement at T-D boundary		1,446.18		1,499.69
4	Intra-State Transmission Losses	0.7%	10.67	0.6%	8.79
5	Energy requirement of EHT consumers	-			
6	Energy Requirement of Distribution system consumers after grossing up for Intra-State Transmission losses		1,456.85		1,508.48
7	Energy Requirement of Distribution License		1,456.85		1,508.48
8	Inter-State Transmission Losses	1.65%	14.50	1.650%	14.50
9	Total Energy requirement		1,471.35		1,522.98
10	Total Energy available		1,730.64		1,523.43
11	Surplus / (Deficit)		259.28		0.45
		1,471.35	1,471.35	1,523.43	1,522.98

Income from Investments and Non Tariff Income

Form No.: F 4

	Particulars (Rs. Crores)	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
A	Income from Investment, Fixed & Call Deposits			
	Interest Income from Investment of Statutory Reserves		-	
	Sub-Total		-	
			-	
B	Other Income		-	
	Interest on loans and Advances to staff	-	0.00	
	Interest on loans and Advances to Licensee		-	
	Interest on Loans and Advances to Lessors		-	
	Interest on Advances to Suppliers / Contractors		-	
	Income from Trading (other than Electricity)		-	
	Gain on sale of Fixed Assets		0.16	0.17
	Income/Fee/Collection against staff welfare activities		-	
	Miscellaneous receipts		2.77	2.77
	Misc charges from consumers		-	
	Surcharge on Non Payment of subsidy by Govt		-	
	Sub-Total		2.93	
	Total		2.93	2.93

Repair & Maintenance Expenditure

Form No: F5

Sl.No.	Particulars (Figure in Rs Crore)	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
1	Sub Station	10.62		11.84
	(i) Owned	-		-
	(ii) Outsourced	-		-
2	Transformer other than installed in Sub Station	-		-
3	Building	0.65		0.73
4	Civil Works	-		-
5	Other Works	1.59		1.78
6	Lines, Cables Net Works etc.	-		-
7	Vehicles	0.43		0.48
8	Furnitures and Fixtures	-		-
9	Office Equipments	-		-
10	Spare Inventory for maintaining Transformer redundancy	-		-
11	Sub station maintenance by private agencies	-		-
	R&M expenses	13.29		14.83

Employee Cost and Provisions

Form No: F6

Sl.No.	Particulars (Figure in Rs Crore)	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
A	Employee's Cost (Other Than Covered In 'B'&'C')			
1	Salaries	59.51		66.37
2	DA	36.35		40.54
3	Other Allowances & Relief	10.81		12.06
a	Allowances Details	-		-
b	Travelling/Conveyance	5.53		6.17
c	HRA/BS/Other	12.05		13.44
d		-		-
4	Medical Expenses Reimbursement	-		-
5	Leave Travel Assistance	0.55		0.61
6	Fee & Honorarium	0.00		0.00
7	Incentives/ Awards Including That In Partnership Project (Specify Items)	-		-
8	Earned Leave Encashment	4.93		5.50
9	Tuition fee Re-Imbursement	-		-
10	Leave Salary Contribution	-		-
11	Payment Under Workman'S Compensation And Gratuity	-		-
12	Subsidised Electricity To Employees	0.00		0.00
13	Staff Welfare Expenses	-		-
C	Apprentice And Other Training Expenses	-		-
D	Payment/Contribution To PF Staff Pension And Gratuity	1.42		1.59
1	Terminal Benefits	-		-
a	Provident Fund Contribution	0.00		0.00
b	Provision for PF Fund - Invested	-		-
	Provision for PF Fund - Not Invested	-		-
c	Pension Payments	75.51		84.21
d	Gratuity Payment	9.49		10.59
e	Leave Encashment Payment	-		-
2	Any Other Items	-		-
	Total D	216.13		241.07
E	Bonus/Exgratia To Employees	-		-
F	Grand Total	216.13		241.07
G	Chargeable To Construction Works	-		-
	Balance Item 'F' Appropriate For (F)-(G)	-		-
	Relevant Indices of Wages Increase (As At the beginning & End of the Year)	-		-
	WPI	-		-
	CPI	-		-
	DA Rate	-		-
A	FRSR	-		-
		-		-
	Non-FRSR	-		-
		216.13		241.07

S.No.	Particulars (Figure in Rs Crore)	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
A)	Administration Expenses			
	Rent rates and taxes			
i)	Lease / Rent			
ii)	Rates & Taxes			
iii)	other Administrative expenses	4.15		4.63
	Sub - total of Rent rates and taxes	-		-
iii)	Insurance	-		-
iv)	Revenue Stamp Expenses Account	-		-
v)	Telephone,Postage,Telegram & Telex Charges	-		-
vi)	Incentive & Award To Employees/Outsiders	-		-
vii)	Consultancy Charges	0.11		0.12
viii)	Technical Fees	-		-
ix)	Other Professional Charges			
x)	Conveyance And Travel	0.00		0.00
xi)	DERC License fee			
xii)	Plant And Machinery	-		-
	Security /Service Charges Paid to outside agencies	3.16		3.53
	regulatory expenses	-		-
	ombudsman expenses	-		-
		-		-
	Sub-Total of Administrative Expenses	7.43		8.29
		-		-
B)	Other Charges	0.00		0.00
i)	Fee And Subscriptions Books And Periodicals	-		-
ii)	Printing And Stationery	-		-
iii)	Advertisement Expenses (Other Than Purchase Related)	-		-
	Exhibition & Demo	-		-
iv)	Contributions/Donations To Outside Institute / Association	-		-
v)	Electricity Charges To Offices & Establishments	0.00		0.00
vi)	Water Charges	0.00		0.00
	public interaction program	-		-
vii)	any other expenses	-		-
	Sub-Total of other charges	-		-
		-		-
C)	Legal Charges	0.00		0.00
		-		-
D)	Auditor'S Fee	-		-
		-		-
E)	Material Related Expenses	-		-
i)	Freight On Capital Equipments	-		-
ii)	Purchase Related Advertisement Expenses	-		-
iii)	Vehicle Running Expenses Truck / Delivery Van	-		-
iv)	Vehicle Hiring Expenses Truck / Delivery Van	-		-
v)	Other Freight	-		-
vi)	Transit Insurance	-		-
vii)	Octroi	-		-
viii)	Incidental Stores Expenses	-		-
ix)	Fabrication Charges	-		-
		-		-
	Sub Total of Material related expenses	-		-
		-		-
F)	Departmental Charges	-		-
i)	Upfront Fee	-		-
ii)	Processing Fee	-		-
	Sub Total	-		-
		-		-
G)	Total Charges	7.44		8.29
				-
H)	Total Charges Chargeable To Capital Works			-
				-
I)	Total Charges Chargeable To Revenue Expenses	7.44		8.29

Fixed Assets and Provision for Depreciation				NAME OF DISTRIBUTION LICENSEE: NEW DELHI MUNICIPAL COUNCIL										Form No: F8	
				Previous Year											
In Rs Crores				Gross Fixed Assets			Provision For Depreciation				Net Fixed Assets				
Sl. No	Particulars	Financial Year of Commissioning	Opening Balance	Addition During Year	Deprecialization	Closing Balance	Rate of Depreciation	Opening Balance	Addition During Year	Deprecialization	Closing Balance	Opening balance	Closing Balance		
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	Any other items														
	Total (1 to 9)		929.57	-	-	929.57	3.60%	559.73	33.13		592.86	369.84	336.71		

NAME OF DISTRIBUTION LICENSEE: NEW DELHI MUNICIPAL COUNCIL

Summary statement of Interest & Finance Charges

Form No: F10

Sl. No.			Particulars (In Rs Crores)	Interest Rate	PY (Actual) FY 2018-19	CY (Approved) FY 2019-20	EY (Projection) FY 2020-21
A	I		Interest and Financial charges on Long Term Loans/ Credits from the Fis/banks/organizations approved by the state		-	-	-
		1	PFC				
		2	Bonds				
		3	Banks / FIs				
		4	APDRP				
		5	Any Other				
			Total of I (Weighted average)				
	II		Interest on Working Capital Loans or Short Term Loans		-	-	-
		1	Secured				
		2					
		3					
		4					
		5	Un-secured				
		6					
		7					
		8					
		9					
		10					
			Total of II				
	III		Total of A : I + II				
	B		Other Interest & Finance Charges		-	-	-
		1	Cost of raising Finance & Bank Charges etc.				
		2	Interest on Security Deposit				
		3	Penal Interest Charges				
		4	Lease Rentals				
		5	Penalty charges for delayed payment for power purchase				
			Total of B				
C			Grand Total Of Interest & Finance Charges: A + B		-	-	-
D			Less: Interest & Finance Charges Chargeable to Capital Account		-	-	-
E			Net Total interest and finance charges for revenue account (C-D)		-	-	-

Electricity dept. has not taken any loans.

Form F11: Loan Details

S.No.	Name of Lender (Institution/Rank/Company/Other specify)(copy of letter of intent after approval of loan to be enclosed)	Loan No.	Details of Sanction		Principal		Opening Balance	Disbursed		Repaid		Closing balance	Payment of interest		
			Date of Sanction	Amount	Period of loan	Moratorium period, if any		Amount	Date	Amount	Date		Rate of interest	Date of payment of interest	Amount paid (net of rebate, if any)

Electricity dept. has not taken any loans.

Form No: F16

Net Worth of Distribution Companies

	Particulars	As on.....	PY	CY	EY
			Actual	Estimated	Projection
	Original Cost of FA				
Add	CWIP				
Add	Net Current Assets				
Less:	Depreciation				
Less:	Loan Long term Outstanding				
Less:	CSD				
Less:	SLD				
Less:	Consumer Contribution				
	Net Worth				
	Additional Capital Infusion during the year/dividend payment				
	Total Net Worth				

Kindly refer Note below.

NDMC is not a company but 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. So the accounts of NDMC are not prepared as per the Companies Act-1956.

Allocation Statement - Revenue Requirement (for the year)

All figures in Rs Crores

Form F17

NAME OF DISTRIBUTION LICENSEE: NEW DELHI MUNICIPAL COUNCIL

Wheeling Business		PY Actual	CY Estimated	EY Projection
	Expenditure			
A	Power Purchase Cost			
B	O&M Expenses			
D	Depreciation			
E	ROCE			
F	Income tax			
G	Other Miscellaneous Expenses			
I	NTI			
J	Income from other business			
K	Income from other business			
R	ARR	-	-	-

Note:

As per the Business Plan Regulation, 2017, Clause No. 32 :-Ratio of Allocation of ARR into Wheeling & Retail Supply. No Ratio for allocation of costs have been specified for NDMC. Hence, the above allocation statement for revenue requirement are not applicable.

Allocation Statement - Revenue Requirement (for the year)					Form F18
		All figures in Rs. Crore			
NAME OF DISTRIBUTION LICENSEE: NEW DELHI MUNICIPAL COUNCIL					
Retail Business		PY	CY	EY	
		Actual	Estimated	Projection	
	Expenditure				
A	Power Purchase Cost				
B	O&M Expenses				
D	Depreciation				
E	ROCE				
F	Income tax				
G	Other Miscellaneous Expenses				
I	Total ARR				
J	NTI				
K	Income from other business				
R	ARR				

Note:

As per the Business Plan Regulation, 2017, Clause No. 32 :-

Ratio of Allocation of ARR into Wheeling & Retail Supply

No Ratio proportion is given for NDMC. Hence, the above allocation statement for revenue requirement are not applicable.

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