

A. INTRODUCTION

- 1.1 New Delhi Municipal Council (NDMC), the Distribution Licensee, has filed its Petition for Approval of True up of FY 2019-20 and Aggregate Revenue Requirement (ARR) for FY 2021-22.
- 1.2 This Executive Summary contains the summary of the Petition filed by NDMC for True up of FY 2019-20 and ARR and Tariff for FY 2021-22.
- 1.3 The True up for FY 2019-20 shall be done based on the provisions of *DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017* and *DERC (Business Plan) Regulations, 2017*.
- 1.4 ARR and Tariff for FY 2021-22 shall be determined based on the provisions of *DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017* and *DERC (Business Plan) Regulations, 2019*. ARR broadly has the following components:
 - a) Power Purchase Cost including Transmission Charges
 - b) Operation and Maintenance (O&M) expenses
 - c) Return on Capital Employed
 - d) Depreciation
 - e) Income Tax.
 - f) Non-tariff Income, etc.
- 1.5 The following tables/ figures have been extracted from the Petition filed by NDMC for ease of understanding to various stakeholders. Complete Petition is also available on DERC website <http://www.derc.gov.in/>

B. TRUE UP OF FY 2019-20

- 1.6 NDMC has submitted that Sales and Revenue for FY 2019-20 based on actual as follows:

Table 1: Energy Sales for FY 2019-20 (MU)

Sr. No.	Consumer Category	Approved in TO FY 2019-20	Actual
1	Domestic	250.16	273.591
2	Non-Domestic	251.54	260.462
3	Mixed Load	676.45	671.049
4	Industrial (Small Industrial Power)	0.05	0.015
5	Public Lighting	7.80	7.101
6	DMRC	53.17	44.653
7	Temporary Connection	-	14.890
8	Others	14.05	-
9	J J Cluster	-	0.291
	Total	1253.23	1272.052

Table 2: Revenue from Sale of Power for FY 2019-20 (Rs. Cr.)

Sr. No.	Consumer Category	Approved in TO FY 2019-20	Actual
1	Energy Charges Billed (excluding Electricity Tax)	937.80	1104.97
2	Fixed Charges	188.87	231.63
3	Total (1+2)	1126.67	1336.61

- 1.7 The AT&C loss along-with Distribution Loss and Collection Efficiency for FY 2019-20 sought by NDMC is as follows:

Table 3: AT&C Loss, Distribution Loss and Collection Efficiency for FY 2019-20

Sr. No.	Particulars	Actual (%)
1	AT&C Loss	13.74%
2	Distribution Loss	9.87%
3	Collection Efficiency	95.71%

- 1.8 The Power Purchase Quantum and Cost submitted by NDMC for FY 2019-20 is as follows:

Table 4: Power Purchase Quantum for FY 2019-20

Sr. No.	Particulars	Actual (MU)
1	Power Purchase from Central Stations (Except BTPS,SGS, AND RE Plants)	363.11
2	Power Purchase from Short Term Small Hydro	143.32
3	Total Interstate: Power Purchase (A+B)	506.43
4	Interstate Transmission Losses	-8.36
5	Net Power Purchase from Central Stations	498.07
6	Power Purchase from State Stations (Excluding RE) (PPS-I & PPS-III)	708.42
7	Power Purchase from Short Term Large Hydro	183.93
8	Power Purchase from DMSWSL and EDWPCL	6.15
9	Power Purchase from IEX	163.05
10	Power Purchase from UI	1.18
11	Power Available at Delhi Periphery	1560.81
12	Intra State Transmission Loss	-14.36
13	Power Available at NDMC Periphery	1546.45
14	Solar: Power from Grid Connected & Net Metering	9.46
15	Total	1555.91
16	Sale of Power (IEX)	144.48
17	Net Power Available for Retail Sale	1411.43

Table 5: Power Purchase Cost for FY 2019-20

Sr. No.	Particulars	Actual (Rs. Cr.)
1	Power Purchase Cost CSGS except BTPS, SGS and RE Plants	939.26
2	Cost of Short term and Renewable Purchase	
3	Less: Revenue from Sale of Power (Excess)	36.93
A	Net Power Purchase Cost	902.33

Sr. No.	Particulars	Actual (Rs. Cr.)
4	Interstate Transmission Charges	45.12
5	Intrastate Transmission Charges including SLDC	38.28
6	Cost towards renewable certificate purchase	0.00
B	Less: Rebate on Power Purchase and Transmission	14.70
C	Total Power Purchase Cost for True-up	971.03

1.9 The O&M Expenses as considered by NDMC during FY 2019-20 is as follows:

Table 6: O&M Expenses for FY 2019-20

Sr. No.	Particulars	UoM	Network Capacity as on 31/03/2020	Amount (Rs. Cr.)
1	66 kV Line	ckt km	53.49	1.967
2	33 kV Line	ckt km	181.47	6.674
3	11kV Line	ckt km	1075.57	10.336
4	LT Line system	ckt km	5498.88	317.066
5	66/11 kV Grid S/s	MVA	490	5.067
6	33/11 kV Grid S/s	MVA	1010.00	10.443
7	11/0.415 kV DT	MVA	845.21	12.501
8	Total O&M Expenses			364.054

1.10 NDMC has considered the Non-Tariff Income for FY 2019-20 as Rs. 3.68 Cr. Further, NDMC has submitted that they are exempted from paying the Income Tax, therefore claim for such tax liabilities has not been proposed in the Petition.

1.11 The ARR claimed for True-up of FY 2019-20 is as follows:

Table 7: Trued up ARR for FY 2019-20 as submitted by NDMC

Sr. No.	Description	Actual (Rs. Cr.)
1	Net Power Purchase Cost	971.03
2	Net Operation & Maintenance (O&M)	364.05
3	Depreciation	35.04
4	Return on Capital Employed	48.47
5	Income Tax	0.00
6	Less: Non-Tariff Income	-3.68
7	Aggregate Revenue Requirement	1,414.92

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

Table 8: Revenue (Gap) for FY 2019-20

Sr. No	Particulars	Actual (Rs. Cr.)
1	ARR for FY 2019-20	1414.92
2	Revenue Available Towards ARR	1279.28
3	Revenue(Gap)/Surplus	(135.64)

C. AGGREGATE REVENUE REQUIREMENT FOR FY 2021-22

1.13 The energy sales projected for FY 2021-22 are as follows:

Table 9: Category-wise Energy Sales for FY 2021-22

Sr. No.	Consumer Category	Values (MU)
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	14.57
7	Total	1357.19

1.14 The AT&C Loss, Distribution Loss & Collection Efficiency for FY 2021-22 are as follows:

Table 10: AT&C Loss, Distribution Loss & Collection Efficiency for FY 2021-22

Sr. No.	Particulars	FY 2021-22 (%)
1	Distribution Loss	9.50%
2	Collection Efficiency	99.50%
3	AT&C losses	9.95%

1.15 The Energy Requirement for FY 2021-22 is as follows:

Table 11: Energy Requirement Projections for FY 2021-22

Sr. No.	Particulars	FY 2021-22
1	Energy Sales (MU)	1357.19
2	Distribution Loss (%)	9.50%
3	Distribution Loss (MU)	142.47
4	Energy Required at Distribution Periphery (MU)	1499.66

1.16 The Energy Balance and Power Purchase cost projection for FY 2021-22 is as follows:

Table 12: Energy Balance Projections for FY 2021-22

Sr. No.	Particulars	Values (MU)
A	Energy Requirement	
1	Energy Sales	1357.19
2	Distribution Loss (%)	9.50%
3	Distribution Loss (MU)	142.47
4	Energy Required at Distribution Periphery	1499.66
B	Energy Availability	
1	Power Purchase from Hydro & Solar outside the State	1057.00
2	Less: Interstate Transmission Losses @ 2%	21.14
3	Net Power Purchase from Central Stations	1035.86
4	Power Purchase from within the State	708.42
5	DMSWSL and EDWPCL	6.15
6	Power Purchase from Short Term Sources including ST Renewable	0.00
7	Gross Power Purchase Quantum	1750.43
8	Less: Intra-State Transmission Loss @ 0.92%	16.10
9	Net Power Available at NDMC Periphery	1,734.33

Sr. No.	Particulars	Values (MU)
10	Sale of Surplus Power	234.67
11	Net Power available for Retail Sales	1,499.66

Table 13: Power Purchase Cost for FY 2021-22

Sr. No.	Particulars	Amount (Rs. Cr.)
1	Total Energy available from Stations outside Delhi	355.35
2	Inter-State Transmission Losses & Charges Net of Special Rebate	50.00
3	Energy available from Stations based in Delhi	504.84
4	Energy Purchased from DMSWSL	4.50
5	Energy available at State Transmission Periphery	914.70
6	Intra-State Transmission Losses & Charges	50.00
7	Net Power Available	964.70
8	Less: Sale of Surplus Power	67.82
9	Less: Power Purchase Rebate	9.68
10	Net Power Purchase Cost	887.20

1.17 The O&M Expenses projected for FY 2021-22 is as follows:

Table 14: Projected O&M Expenses for FY 2021-22

Sr. No.	Particulars	UoM	Network Capacity as on 31/03/2022	Amount (Rs. Cr.)
1	66 kV Line	ckt km	53.49	1.71
2	33 kV Line	ckt km	203.62	6.51
3	11kV Line	ckt km	1091.62	10.60
4	LT Line system	ckt km	5513.80	420.15
5	66/11 kV Grid S/s	MVA	610.00	6.05
6	33/11 kV Grid S/s	MVA	1065.10	10.56
7	11/0.415 kV DT	MVA	845.21	13.07
8	Total O&M Expenses			468.64

1.18 The Non Tariff Income for FY 2021-22 is as follows:

Table 15: Projected Non-Tariff Income for FY 2021-22

Non-Tariff Income	FY 2021-22 (Rs. Cr.)
Total	4.0

1.19 The projected ARR & Revenue Gap for FY 2021-22 is as follows:

Table 16: Projected ARR & Revenue Gap for FY 2021-22

Sr. No.	Particulars	Amount (Rs. Cr.)
1	Cost of Power Purchase, including T&D Losses	887.20
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)	468.64
6	Depreciation	38.13
7	Return on Capital Employed	50.86

Sr. No.	Particulars	Amount (Rs. Cr.)
8	Income Tax	0.00
9	Aggregate Revenue Requirement (ARR)	1444.83
10	Less: Non-Tariff Income	4.00
11	Net ARR	1440.83
12	Revenue At Existing Tariff	1324.06
13	Revenue (Gap)/Surplus for FY 2021-22	(116.77)
14	Gap for FY 2020-21 to be adjusted	(189.34)
15	Gap for FY 2019-20 to be adjusted	(135.64)
16	Gap for FY 2018-19 to be adjusted	(167.88)
17	Total Revenue gap to be recovered from Tariff	(609.63)