

A. INTRODUCTION

- 1.1 New Delhi Municipal Council (NDMC), the Distribution Licensee, has filed its Petition for Approval of True-up of FY 2020-21 and Aggregate Revenue Requirement (ARR) for FY 2022-23.
- 1.2 This Executive Summary contains the summary of the Petition filed by NDMC for True-up of FY 2020-21 and ARR Tariff for FY 2022-23.
- 1.3 The True up for FY 2020-21, ARR and Tariff for FY 2022-23 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.
- 1.4 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 2020-21

- 1.5 NDMC has submitted that Sales and Revenue for FY 2020-21 based on actual as follows:

Table 1: Energy Sales for FY 2020-21 (MU)

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

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

Sr. No.	Particulars	Approved in TO FY 2020-21	Actual
1	Energy Charges Billed (excluding Electricity Tax)	868.43	800.06
2	Fixed Charges	193.94	255.58
3	Total (1+2)	1062.37	1055.63

Sr. No.	Particulars	Approved in TO FY 2020-21	Actual
4	E-tax billed	0.000	52.24
5	Revenue Billed including Electricity Tax and Surcharge	1062.37	1107.88

- 1.6 The Distribution Loss and Collection Efficiency for FY 2020-21 submitted by NDMC is as follows:

Table 3: Distribution Loss & Collection Efficiency for FY 2020-21 (%)

Sr. No.	Particulars	Actual
1	Distribution Loss	8.43%
2	Collection Efficiency	104.64%

- 1.7 The Power Purchase Quantum and Cost submitted by NDMC for FY 2020-21 is as follows:

Table 4: Power Purchase Quantum for FY 2020-21 (MU)

Sr. No.	Particulars	Approved in TO FY 2020-21	Actual
1	Power Purchase from Central Stations Dadri	305.00	29.00
2	Power Purchase from Short Term Small Hydro		87.21
3	Total Interstate: Power Purchase	305.00	116.21
4	Interstate Transmission Losses	-6.00	-1.92
5	Net Power Purchase from Central Stations and Small Hydro	299.00	114.28
6	Power Purchase from State Generating Stations (Excluding RE)	830.00	750.54
7	Power purchase from DMSWSL	6.15	6.83
8	Power purchase from IEX		156.47
9	Power available at Delhi Periphery	1135.15	1028.13
10	Intra State Transmission Loss	-10.00	-9.06
11	Power Available at NDMC Periphery	1125.15	1019.07
12	Power Purchase from Short Term Large Hydro at NDMC Periphery	0.00	223.90
13	Power Purchase from UI		8.69
14	Solar Power from Grid Connected Plant		1.73
15	Total	1125.15	1253.39
16	Sale of Power (IEX) & UI		150.23
17	Net Power Available for Retail Sale	1125.15	1103.16

Table 5: Power Purchase Cost for FY 2020-21

Sr. No.	Particulars	Power Quantum (MU)	Amount (Rs. Cr.)
1	Gross Power Purchase Cost excluding Waste to Energy, Short Term Purchase and Transmission Charges	779.54	572.77
2	Waste to Energy	6.83	4.80

Sr. No.	Particulars	Power Quantum (MU)	Amount (Rs. Cr.)
3	Total Long Term	786.36	577.57
4	Short Term Purchase	476.26	196.68
5	Solar Power – Grid Connected	1.73	0.00
6	Inter State Transmission Losses / Charges	-1.92	23.77
7	Intra State Transmission Losses / Charges	-9.05	34.36
8	OA Charges for Small Hydro		5.32
9	STOA Charges for large Hydro		4.74
10	Gross Power Purchase	1253.39	842.43
11	Less: Rebate on Power Purchase	0.00	15.02
12	Less: Total Rebate on Transmission	0.00	0.83
13	Less: Sale of Surplus Power	150.23	32.64
14	Net Power Purchase	1103.16	793.94
15	Average Cost Per Unit		7.20

1.8 The O&M Expenses as submitted by NDMC during FY 2020-21 is as follows:

Table 6: O&M Expenses for FY 2020-21

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

1.9 NDMC has submitted the Non-Tariff Income for FY 2020-21 as Rs. 4.55 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.

1.10 NDMC has submitted the ARR during FY 2020-21 as follows:

Table 7: Trued up ARR for FY 2020-21 (Rs. Crore)

Sr.No.	Description	T.O 2020-21	Actual
1	Net Power Purchase Cost	737.18	793.94
2	Net Operation & Maintenance (O&M)	240.72	357.38
3	Depreciation	22.77	37.42
4	Return on Capital Employed (including Interest on Working Capital)	24.43	52.06
5	Income Tax	0.00	0.00
6	Less: Non-Tariff Income	-7.90	-4.55
7	Aggregate Revenue Requirement (ARR)	1017.20	1236.25

1.11 The Revenue Surplus/(Gap) for FY 2020-21 is as follows:

Table 8: Revenue (Gap) for FY 2020-21 (Rs. Crore)

Sr. No	Particulars	T.O. 2020-21	Actual
1	ARR for FY 2020-21	1017.20	1236.25
2	Revenue Available Towards ARR	1037.74	1049.63
3	Revenue(Gap)/Surplus	20.54	(186.62)

C. Aggregate Revenue Requirement for FY 2022-23

1.12 The Energy Sales and Revenue projected for FY 2022-23 are as follows:

Table 9: Category-wise Energy Sales and Revenue for FY 2022-23 (MU)

Sr. No.	Consumer Category	FY 2022-23	Revenue
1	Domestic	255.78	202.03
2	Non Domestic	1039.00	1031.34
3	Mixed Load		
4	Small Industrial Power	0.03	0.03
5	Public Lighting	7.07	4.91
6	DMRC	40.97	28.01
7	Other	14.57	11.23
8	Total	1357.42	1277.54

1.13 The Distribution Loss & Collection Efficiency for FY 2022-23 are as follows:

Table 10: Distribution Loss & Collection Efficiency for FY 2022-23

Sr. No.	Particulars	FY 2022-23
1	Distribution Loss	8.50%
2	Collection Efficiency	99.50%

1.14 The Energy Requirement projected for FY 2022-23 is as follows:

Table 11: Energy Requirement Projections for FY 2022-23

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

1.15 The Energy Balance projected for FY 2022-23 is as follows:

Table 12: Energy Balance Projections for FY 2022-23 (in MU)

Sr. No.	Particulars	FY 2022-23
A	Energy Requirement	
1	Energy Sales	1357.42
2	Distribution Loss (%)	8.50%
3	Distribution Loss (MU)	126.10
4	Energy Required at Distribution Periphery	1483.52
B	Energy Availability	
1	Power Purchase from Large Hydro (Teesta) outside the State	611.00

Sr. No.	Particulars	FY 2022-23
2	Power Purchase from Small Hydro outside the State	70.00
3	Less: Interstate Transmission Losses (3.20%)	21.79
4	Net Power Purchase from outside States	659.21
5	Power Purchase from within the State	796.00
6	DMSWSL and EDWPCL	6.15
7	Solar Power (100 MW)	160.00
8	Short Term Bilateral Hydro	75.00
9	From IEX	15.00
10	Gross Power Purchase Quantum	1711.36
11	Less: Intra-State Transmission Loss (0.88%)	15.06
12	Net Power Available at NDMC Periphery	1696.30
13	Sale of Surplus Power	212.78
14	Net Power available for Retail Sales	1483.52

1.16 The Power Purchase Quantum and Cost for FY 2022-23 is as follows:

Table 13: Power Purchase Cost for FY 2022-23

Sr. No.	Particulars	Power Quantum (MU)	Amount (Rs. Cr.)
1	Power Purchase from Large Hydro (Teesta) outside the State	611.00	241.96
2	Power Purchase from Small Hydro outside the State	70.00	32.62
3	Less: Interstate Transmission Losses	21.79	22.30
4	Net Power Purchase from outside States	659.21	
5	Power Purchase from within the State	796.00	524.26
6	DMSWSL and EDWPCL	6.15	4.32
7	Solar Power Long Term	160.00	39.20
8	Short Term Bilateral Hydro	75.00	31.95
9	From IEX	15.00	5.70
10	Gross Power Purchase Quantum	1711.36	
11	Less: Intra-State Transmission Loss	15.06	44.86
12	OA Charges for Small Hydro Power		5.32
13	STOA Charges for Large Hydro Power		4.74
14	Total Power Purchase Cost	1696.30	957.23
15	Rebate on Power Purchase		13.89
16	Sale of Surplus Power	212.78	46.17
17	Net Power Purchase Cost	1483.52	897.17

1.17 The O&M Expenses projected for FY 2022-23 is as follows:

Table 14: O&M Expenses Projected for FY 2022-23

Sr. No	Particulars	Units	Projection as on 31/03/2022	Addition During FY 2022-23	As on 31/03/2023	Rate in Lakh	Amt. in Lakh	Rs. Cr.
1	66 kV Line	Ckt KM	55.71	0.00	55.71	3.320	184.95	1.85
2	33 kV Line	Ckt KM	199.80	0.00	199.80	3.320	663.35	6.63
3	11kV Line	Ckt KM	1076.33	136.17	1212.50	1.008	1222.20	12.22

Sr. No	Particulars	Units	Projection as on 31/03/2022	Addition During FY 2022-23	As on 31/03/2023	Rate in Lakh	Amt. in Lakh	Rs. Cr.
4	LT Line system	Ckt KM	4273.75	31.00	4304.75	7.912	34059.18	340.59
5	66/11 kV Grid S/s	MVA	490.00	0.00	490.00	1.029	504.21	5.04
6	33/11 kV Grid S/s	MVA	1066.00	0.00	1066.00	1.029	1096.91	10.97
7	11/0.415 kV DT	MVA	845.93	9.00	854.93	1.605	1372.16	13.72
Total								391.03

1.18 The Non-Tariff Projected Income for FY 2022-23 is as follows:

Table 15: Projected Non-Tariff Income for FY 2022-23 (Rs. Crore)

Particulars	FY 2022-23
Non-Tariff Income	4.00

1.19 The projected ARR & Revenue Gap for FY 2022-23 is as follows:

Table 16: Projected ARR & Revenue Gap for FY 2022-23 (Rs. Crore)

S. No.	Particulars	FY 2022-23
1	Cost of power purchase, including T&D Losses	897.17
2	Inter-State Transmission charges	Included in 1
3	Intra-state Transmission charges including SLDC charges	
4	Rebate on Timely Payments	
5	Net Operation & Maintenance (O&M)	391.03
6	Depreciation	41.02
7	Return on Capital Employed	57.11
8	Income Tax	0.00
9	Aggregate Revenue Requirement (ARR)	1386.33
10	Less: Non-Tariff Income	(4.00)
11	Net ARR	1382.33
12	Revenue at Existing Tariff	1277.54
13	Revenue (Gap)/Surplus for FY 2022-23	(104.79)