

A. INTRODUCTION

- 1.1 New Delhi Municipal Council (NDMC), the Distribution Licensee, has filed Petitions for Approval of True-up of FY 2021-22 and Aggregate Revenue Requirement (ARR) for FY 2023-24.
- 1.2 This Executive Summary contains the summary of the Petitions filed by NDMC for True-up of FY 2021-22 and ARR Tariff for FY 2023-24.
- 1.3 The True up for FY 2021-22, ARR and Tariff for FY 2023-24 shall be determined based on the provisions of *DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017*, *DERC (Business Plan) Regulations, 2019* and *DERC (Business Plan Regulations, 2023*. ARR broadly has the following components:
- Power Purchase Cost including transmission charges
 - Operation and Maintenance (O&M) expenses
 - Return on Capital Employed
 - Depreciation
 - Income Tax.
 - Non-tariff Income, etc.
- 1.4 The following tables/ figures have been extracted from the Petitions filed by NDMC for ease of understanding to various stakeholders, however, the complete Petition is also available on DERC website <http://www.derc.gov.in/>

B. TRUE UP OF FY 2021-22

- 1.5 NDMC has submitted Actual Sales and Revenue for FY 2021-22 as follows:

Table 1: Energy Sales for FY 2021-22 (MU) & Revenue (Rs. Crore)

Sr. No.	Consumer Category	Actual	Revenue
1	Domestic	271.32	200.56
2	Non-Domestic	186.36	971.59
3	Mixed Load	601.47	
4	Industrial (Small Industrial Power)	0.03	0.02
5	Public Lighting	6.09	4.57
6	DMRC	20.94	16.07
7	Others	17.83	17.88
8	Total	1104.02	1210.70

Table 2: Revenue from Sale of Power for FY 2021-22 (Rs. Cr.)

Sr. No.	Particulars	Actual
1	Energy Charges Billed (excluding Electricity Tax)	920.95
2	Fixed Charges	232.44
3	Total (1+2)	1153.39
4	E-tax billed	57.31
5	Revenue Billed including Electricity Tax and including Surcharge (3+4)	1210.70

- 1.6 The Distribution Loss and Collection Efficiency for FY 2021-22 submitted by NDMC is as follows:

Table 3: Distribution Loss & Collection Efficiency for FY 2021-22 (%)

Sr. No.	Particulars	Approved in TO FY 2021-22	Actual
1	Distribution Loss	8.75%	8.35%
2	Collection Efficiency	99.50%	101.69%

- 1.7 The Power Purchase Quantum and Cost submitted by NDMC for FY 2021-22 is as follows:

Table 4: Power Purchase Quantum for FY 2021-22 (MU)

Sr. No.	Particulars	Actual
1	Power Purchase from Outside Delhi (TEESTA Hydro)	412.72
2	Power Purchase from Short Term Small Hydro	72.04
3	Power Purchase from IEX	105.45
4	Total Interstate: Power Purchase	590.21
5	Interstate Transmission Losses (@ 3.20%)	(18.89)
6	Net Power Purchase from Central Stations and Small Hydro	571.32
7	Power Purchase from State Generating Stations (Excluding RE)	639.13
8	Power purchase from DMSWSL	7.05
9	Power purchase from GTPS	8.89
10	Power Purchase from Short Term Large Hydro at NDMC Periphery	166.65
11	Power available at Delhi Periphery	1393.04
12	Intra State Transmission Loss (@0.88%)	(12.25)
13	Power Available at NDMC Periphery	1380.79
14	Power Purchase from UI	10.37
15	Solar Power from Grid Connected Plant	0.97
16	Total	1414.62
17	Sale of Power (IEX) & UI	210.05
18	Net Power Available for Retail Sale	1204.57

Table 5: Power Purchase Cost for FY 2021-22 (Rs. Crore)

Sr. No.	Particulars	Power Quantum (MU)	Amount (Rs. Cr.)
1	Gross Power Purchase Cost excluding Waste to Energy, Short Term Purchase and Transmission Charges	648.02	643.53
2	Waste to Energy	7.05	4.95
3	Total Long Term	655.06	648.48
4	Short Term Purchase	789.73	329.72
5	Solar Power – Grid Connected	0.97	0.00
6	Payment of Goodwill to PTC	0.00	0.27
7	Inter State Transmission Charges (PGCIL)	(18.89)	2.03
8	Intra State Transmission Charges (DTL)	(12.25)	32.39
9	OA Charges for Small Hydro		2.29
10	OA Charges for large Hydro		35.74
11	Gross Power Purchase	1414.62	1050.94
12	Less: Rebate on Power Purchase	0.00	17.27
13	Less: Total Rebate on Transmission	0.00	0.34
14	Less : Refund from STOA, RRAS & SCED Charges	0.00	18.26
15	Less: Sale of Surplus Power	210.05	78.33
16	Net Power Purchase	1204.57	936.74
17	Average Cost Per Unit		7.78

1.8 The O&M Expenses as submitted by NDMC during FY 2021-22 is as follows:

Table 6: O&M Expenses for FY 2021-22

Sr. No	Particulars	Units	As on 01/04/2020	Addition During FY 2021-22	As on 31/03/2022	Rate in Lakh	Amt. in Lakh	Rs. Cr.
1	66 kV Line	Ckt KM	55.71	0.00	55.71	3.197	178.10	1.78
2	33 kV Line	Ckt KM	175.30	0.00	175.30	3.197	560.44	5.60
3	11kV Line	Ckt KM	1049.32	9.92	1059.24	0.971	1023.70	10.24
4	LT Line system	Ckt KM	4273.69	13.04	4286.73	7.620	32615.20	326.15
5	66/11 kV Grid S/s	MVA	490.00	0.00	490.00	0.991	485.59	4.86
6	33/11 kV Grid S/s	MVA	1006.00	0.00	1006.00	0.991	996.95	9.97
7	11/0.415 kV DT	MVA	844.93	18.40	863.33	1.546	1320.48	13.20
Total								371.80

1.9 NDMC has submitted the Non-Tariff Income for FY 2021-22 as Rs. 7.40 Cr.

1.10 NDMC has submitted the ARR during FY 2021-22 as follows:

Table 7: Trued up ARR for FY 2021-22 (Rs. Crore)

Sr.No.	Description	Actual
1	Net Power Purchase Cost	936.74
2	Net Operation & Maintenance (O&M)	371.80
3	Depreciation	40.42

Sr.No.	Description	Actual
4	Return on Capital Employed (including Interest on Working Capital)	57.82
5	Income Tax	0.00
6	Less: Non-Tariff Income	7.40
7	Aggregate Revenue Requirement (ARR)	1399.38

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

Table 8: Revenue (Gap) for FY 2021-22 (Rs. Crore)

Sr. No	Particulars	T.O. 2021-22	Actual
1	ARR for FY 2021-22	1134.86	1399.38
2	Revenue Available Towards ARR	1172.74	1147.75
3	Revenue(Gap)/Surplus		(251.63)

C. Aggregate Revenue Requirement for FY 2023-24

1.12 The Energy Sales and Revenue projected for FY 2023-24 are as follows:

Table 9: Category-wise Energy Sales and Revenue for FY 2023-24 (MU)

Sr. No.	Consumer Category	Proposed FY 2023-24	Revenue
1	Domestic	283.93	222.15
2	Non Domestic	986.17	997.48
3	Mixed Load		
4	Small Industrial Power	0.03	0.03
5	Public Lighting	7.78	5.35
6	DMRC	40.81	25.51
7	Other	13.51	18.77
8	Total	1332.24	1269.30

1.13 The Distribution Loss & Collection Efficiency for FY 2023-24 are as follows:

Table 10: Distribution Loss & Collection Efficiency for FY 2023-24

Sr. No.	Particulars	FY 2022-23
1	Distribution Loss	7.72%
2	Collection Efficiency	99.80%

1.14 The Energy Requirement projected for FY 2023-24 is as follows:

Table 11: Energy Requirement Projections for FY 2023-24

Sr. No.	Particulars	FY 2023-24
1	Energy Sales (MU)	1332.24
2	Distribution Loss (%)	7.72%
3	Distribution Loss (MU)	111.45
4	Energy Required at Distribution Periphery (MU)	1443.69

1.15 The Energy Balance projected for FY 2023-24 is as follows:

Table 12: Energy Balance Projections for FY 2023-24 (in MU)

Sr. No.	Particulars	FY 2023-24
A	Energy Requirement	
1	Energy Sales	1332.24
2	Distribution Loss (%)	7.72%
3	Distribution Loss (MU)	111.45
4	Energy Required at Distribution Periphery	1443.69
B	Energy Availability	
1	Power Purchase from 150 MW allocation from Central Govt. (Tentatively for 3 years) outside the State	650.00
2	Power Purchase from Small Hydro outside the State	30.00
3	Less: Interstate Transmission Losses (3.40%)	23.12
4	Net Power Purchase from outside States	656.94
5	Power Purchase from within the State	
i	Pragati-I	450.00
ii	Pragati-III(Bawana)	300.00
iii	DMSWSL (Bawana)	6.00
iv	TWEPL, (Tehkhand)	6.00
6	Solar Power Long Term (100 MW)	1.63
7	Short Term Bilateral Hydro	0.00
8	From IEX	0.00
9	Gross Power Purchase Quantum	1420.57
10	Less: Intra-State Transmission Loss (0.88%)	12.48
11	Net Power Available at NDMC Periphery	1408.09
12	Sale of Surplus Power	(35.60)
13	Net Power available for Retail Sales	1443.69

1.16 The Power Purchase Quantum and Cost for FY 2023-24 is as follows:

Table 13: Power Purchase Cost for FY 2023-24

Sr. No.	Particulars	Power Quantum (MU)	Amount (Rs. Cr.)	Rate
1	150 MW allocation from Central govt. (Tentatively for 3 years) outside the State	650.00	280.80	4.32
2	Power Purchase from Small Hydro outside the State	30.06	12.93	4.30
3	Less: Interstate Transmission Losses (3.40%)	23.12	35.09	
4	Net Power Purchase from outside States	656.94		
5	Power Purchase from within the State			
i	Pragati-I	450.00	486.00	10.80
ii	Pragati-III(Bawana)	300.00	323.10	10.77
iii	DMSWSL (Bawana)	6.00	4.22	7.03
iv	TWEPL, (Tehkhand)	6.00	2.58	4.30
6	Solar Power	1.63	1.04	6.35
7	Short Term Bilateral Hydro	0.00	0.00	5.65
8	From IEX	0.00	0.00	

Sr. No.	Particulars	Power Quantum (MU)	Amount (Rs. Cr.)	Rate
9	Gross Power Purchase Quantum	1420.57	0.00	
10	Less: Intra-State Transmission Loss (0.88%)	12.48	45.40	
11	OA Charges for Small Hydro Power		5.00	
12	OA Charges for Large Hydro Power		4.00	
13	Total Power Purchase Cost	1408.09	1200.14	
14	Rebate on Power Purchase		(18.78)	
15	Sale of Surplus Power	(35.60)	(13.28)	3.73
16	Net Power Purchase Cost	1443.69	1168.09	8.09

1.17 The O&M Expenses projected for FY 2023-24 is as follows:

Table 14: O&M Expenses Projected for FY 2023-24

Sr. No.	Particulars	Proposed FY 2023-24
1	Energy Sold (MU)	1332.24
2	O&M Cost per kWh as per draft BPR 2023 Cost (per kWh/paisa)	54.72
3	Sub-Total Annual Cost (1*2) Rs. in Cr.)	72.90
4	Employee Cost as per Business Plan (Rs. in Cr.)	259.22
5	Grand Total Annual Cost (3+4) (Rs. in Cr.)	332.12

1.18 The Non-Tariff Income Projected for FY 2023-24, as submitted by NDMC is as follows:

Table 15: Projected Non-Tariff Income for FY 2023-24 (Rs. Crore)

Particulars	FY 2023-24
Non-Tariff Income	4.00

1.19 The projected ARR & Revenue Gap for FY 2023-24, as submitted by NDMC is as follows:

Table 16: Projected ARR & Revenue Gap for FY 2023-24 (Rs. Crore)

S. No.	Particulars	FY 2023-24
1	Cost of power purchase, including T&D Losses	1168.09
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)	332.12
6	Depreciation	46.28
7	Return on Capital Employed	83.56
8	Income Tax	0.00
9	Aggregate Revenue Requirement (ARR)	1630.05
10	Less: Non-Tariff Income	4.00
11	Net ARR	1626.05
12	Revenue at Existing Tariff	1269.29
13	Revenue (Gap)/Surplus for FY 2023-24	(356.76)

S. No.	Particulars	FY 2023-24
14	Revenue (Gap) of FY 2021-22 to be adjusted	(251.63)
15	Revenue (Gap) of FY 2020-21 to be adjusted	(186.62)
16	Total Revenue Gap to be recovered from Tariff in FY 2023-24	(795.01)