



MIRA-BHAINDAR MUNICIPAL CORPORATION

Solid Waste Management

Indira Gandhi Bhavan, Chatrapati Shivaji Maharaj Marg,
Bhayandar (W) 401101, Tal. Dist – Thane, 28192828

Website: - www.mbmc.gov.in



PUBLIC NOTICE

[Case No. 28 of 2023]

Suggestions/ Objections on Mira-Bhaindar Municipal Corporation's Petition for determination of Project Specific Tariff for supply of electricity generated from waste-to-energy project of cumulative capacity 575 kVA (3 x 125 kVA and 4 x 50 kVA) located in the area of Mira Bhaindar Municipal Corporation.

1. Mira-Bhaindar Municipal Corporation (MBMC) has filed a Petition for determination of Project Specific Tariff for supply of electricity generated from waste-to-energy project of cumulative capacity 575 kVA (3 x 125 kVA and 4 x 50 kVA) located in the area of Mira Bhaindar Municipal Corporation under Regulation 9.1 & 10.2 of MERC (Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2019 and Section 62(1)(a) and 86(1)(e) of the Electricity Act, 2003.
2. The Commission has admitted the Petition on 20 November 2023 and directed MBMC to publish a Public Notice under Section 64(2) of the Electricity Act, 2003 inviting Suggestions/Objections from the Public.
3. MBMC has prayed as under:
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 - To admit the Petition seeking approval for Project Specific Tariff for supply of electricity generated from waste-to-energy project for MBMC of cumulative capacity 575 kVA located in the area of Mira Bhaindar Municipal Corporation in Dist. Thane;
 - To approve a Project Specific Tariff of INR 7.66 /kWh for 25 years of project life;
 - To grant must run status to the project, and exemption from Merit Order Dispatch Principles for the entire life of the Project;
 - To direct AEML-D to consider the benefit of zero contract demand charges;
 - To direct AEML-D to sign Power Purchase Agreement for purchase of power from waste to energy project for MBMC.
 - To allow additions/alterations/modifications/changes to the Petition at a future date;
 - To allow any other relief, order or direction, which the Hon'ble Commission deems fit to be issued;
 - To condone any error/ omission and to give opportunity to rectify the same;”
4. The salient features of the Petition are provided below:

Table 1: Capital Cost Break-up for Waste to Energy project within MBMC Area (Rs)

Sr.	Location of Plant	Capacity of Waste Treatment Plant TPD	Capacity of Power Generation Plant	CAPEX		
				Total CAPEX	Subsidy	Claimed under Petition
1	Reservation No140, Bhayander (w)	10 MT	50 kVA	3,03,00,000	1,01,99,332	1,00,50,334
2	Reservation No 122/D, Navghar Gaon	20 MT	125 kVA	5,60,00,000	1,88,50,251	1,85,74,874
3	Reservation No. 122/D, Navghar Gaon	10 MT	50 kVA	2,70,00,000	90,88,514	89,55,743
4	Reservation No. 271, 272, 273 Kanakiya	10 MT	50 kVA	3,03,00,000	1,01,99,332	1,00,50,334
5	Reservation No. 368, Mahajanwadi	20 MT	125 kVA	5,40,00,000	1,81,77,028	1,79,11,486
6	Reservation No. 353, Penkarpada	20 MT	125 kVA	5,40,00,000	1,81,77,028	1,79,11,486
7	City Sr.No. 1442 to 1446, 1723 to 1726 Mira	10 MT	50 kVA	2,70,00,000	90,88,514	89,55,743
	Total	100 MT	575 kVA	27,86,00,000	9,37,80,000	9,24,10,000

Table 2: Parameter Assumptions

S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Assumptions
1	Power Generation	<u>Capacity</u>	Installed Power Generation Capacity	MW	0.575
			Capacity Utilization Factor	%	60.00%
			Auxiliary Consumption	%	20%
			Useful Life	Years	25
2	Project Cost	<u>Capital Cost/MW</u>	Power Plant Cost	Rs Lacs/MW	1607.10
3	Sources of Fund	<u>Debt: Equity</u>	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
			Total Debt Amount	Rs Lacs	646.87
			Total Equity Amount	Rs Lacs	277.23
			<u>Debt Component</u>		
			Loan Amount	Rs Lacs	646.87
			Repayment Period (incl'd Moratorium)	years	12
			Interest Rate	%	9.00%
				<u>Equity</u>	

S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Assumptions
		<u>Component</u>			
			Equity amount	Rs Lacs	277.23
			Return on Equity	% p.a	14.00%
			RoE Period	Year	25
			Weighted average of ROE		14.00%
			Discount Rate		10.50%
4	Financial Assumptions				
		<u>Fiscal Assumptions</u>			
			Corporate Tax Rate	%	-
		<u>Depreciation</u>			
			Depreciation Rate for first 12 years	%	5.83%
			Depreciation Rate 13th year onwards	%	1.54%
5	Working Capital				
		<u>For Fixed Charges</u>			
		O&M Charges		Months	1
		Maintenance Spare	(% of O&M expenses)		15%
		Receivables for Debtors		Months	2
		Interest On Working Capital		%	8.50%
6	Operation & Maintenance				
		Power Plant - Base Year		Rs Lacs/MW	80.36
		Escalation Factor		%	6.17% (for 1 st Five Years) 4.94% (from 6 th year onwards)

Table 3: Determination of Tariff component

Year	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Net Energy Sold	MU	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
Costs																
Depreciation	Rs. Lakhs	54	54	54	54	54	54	54	54	54	54	54	54	14	14	14
Return On Equity	Rs. Lakhs	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
Interest On Capital	Rs. Lakhs	56	51	46	41	36	32	27	22	17	12	7	2	-	-	-
Interest On Working Capital	Rs. Lakhs	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
O& M Cost	Rs. Lakhs	46	49	52	55	59	62	65	68	71	75	78	82	86	91	95
Total Cost	Rs. Lakhs	198	196	195	193	192	190	188	186	185	184	183	182	143	148	152
Net Tariff	Rs./kWh	8.21	8.13	8.05	7.96	7.93	7.85	7.78	7.69	7.65	7.60	7.55	7.49	5.92	6.10	6.29

Year	Unit	16	17	18	19	20	21	22	23	24	25
Net Energy Sold	MU	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
Costs											
Depreciation	Rs. Lakhs	14	14	14	14	14	14	14	14	14	14
Return On Equity	Rs. Lakhs	39	39	39	39	39	39	39	39	39	39
Interest On Capital	Rs. Lakhs	-	-	-	-	-	-	-	-	-	-
Interest On Working Capital	Rs. Lakhs	4	4	5	5	5	5	5	6	6	6
O& M Cost	Rs. Lakhs	100	105	110	115	121	127	133	140	147	154
Total Cost	Rs. Lakhs	157	162	167	173	179	185	192	198	206	213
Net Tariff	Rs./kWh	6.48	6.70	6.93	7.16	7.38	7.66	7.92	8.21	8.48	8.81

Table 4: Levelised Tariff

Levelised Tariff for 25 years (Rs/kWh)	7.66
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5. The Commission has directed MBMC to invite suggestions/objections from the public on the above Petition through this Notice. In response to the Public Notice published, every person who intends to file suggestions/ objections can submit the same in English or Marathi language in writing by uploading it through 'E-Public Consultation' Tab on MERC Website (www.merc.gov.in/e-public-consultation). In case of any difficulty in accessing this feature, concerned stakeholders can contact the MERC Office on Mobile No.: 8928071522 or on email id: suggestions@merc.gov.in between 9.30 AM to 6.00 PM on all the working days.
6. A Person who has uploaded suggestion and objection on 'E-Public Consultation' Tab need not file any hard copy of its submission. Persons who do not have access to electronic media can file their suggestion and objection in a hard copy addressed to 'The Secretary, Maharashtra Electricity Regulatory Commission, 13th Floor, Centre No.1, World Trade Centre, Cuffe Parade, Mumbai-400 005 Suggestions and/or objections received after 5 PM on 10 January 2024 shall not be considered. Suggestions/Objections filed through any other mode shall not be considered.
7. MBMC shall reply to each of the objections /comments received within three days of the receipt of the same but not later than 10 January 2024 for all the objections/comments received till 13 January 2024. Stakeholders can submit their rejoinders on replies provided by MBMC either during the e-public hearing or latest by 29 January 2024.
8. If the sender/objector who has submitted his comments/suggestions as per above and wants to be heard in person in e-Public Hearing, then he/she should specifically mention the same at the time of filing of suggestions /objections along with venue. In such cases, submission of valid email ID and Mobile Number would be mandatory.
9. All participants attending the e-Public Hearing shall follow the Practice Directions on 'Operational procedure and protocol to be followed for e-hearing of the Petition before the Commission' issued by the Commission on 14 November 2022. The Commission at its sole discretion, may permit such sender/objector to be heard in the e-Public Hearing to be held through video conference, for which no separate notice will be given.
10. The detailed Petition document and the Executive Summary are available on MBMC's website www.mbmc.gov.in and the Executive Summary is also available on the websites of the Commission www.merc.gov.in in downloadable format (free of cost).
11. Hearing to be held through video conference on **10 January 2024 at 10:30 AM**, when MBMC's application for tariff determination will be considered. No separate notice will be issued for the purpose.

Place: Bhaindar

Date: September 2023

Deepak Khambit
City Engineer
Mira Bhayander Municipal Corporation