



महाराष्ट्र विद्युत नियामक आयोग Maharashtra Electricity Regulatory Commission



MERC/M-DNAC/2024-25/ 0613

Date: 9 October, 2024

To

The Chief Executive Officer,
Adani Electricity Mumbai Ltd.
Devidas Lane, Off SVP Road,
Near Devidas Telephone Exchange Borivali (W),
Mumbai -- 400 092

The Chairman & Managing Director,
The Tata Power Company Limited,
Bombay House, 24, Homi Mody Street,
Mumbai 400 001

Subject: Common guidelines for estimation of Maximum Demand (MD) for deciding the required infrastructure to Release New Connections by Tata Power Company Limited and Adani Electricity Mumbai Limited – Parallel Licensing Regime.

Sir / Madam,

The Commission, in the Order in Case No. 182 of 2014, has described 4 Scenarios with respect to the area/ location in which a new connection application will fall, depending upon the presence of distribution network of either Licensee. The Commission has further classified areas in 5 levels. As per the above Order, if both Distribution Licensees need Level 3 or higher level network extension in Scenario 53(d), then both Licensees are required to submit their cost proposals in the prescribed formats before a M-DNAC Committee, which shall scrutinize the cost proposals of the two Licensees and based on cost effectiveness of the proposals, decide as to which Licensee should extend the network.

Vide its Order dated 25 December, 2022 in Case No 163 of 2021, the Commission had directed M-DANC to prepare guidelines for MD estimation in consultation with both the Licensees and submit the same for approval of the Commission.

Accordingly, the M-DNAC prepared the common guidelines for estimation of Maximum Demand (MD) for deciding the required infrastructure to Release New Connections by TPC-D and AEML-D in in consultation with both the Licensees and submitted for approval of the Commission.

The common guidelines for estimation of Maximum Demand (MD) for deciding the required infrastructure to Release New Connections by TPC-D and AEML-D – Parallel Licensing Regime as approved by the Commission are attached herewith alongwith the revised formats for the monthly reports to be submitted by AEML-D and TPC-D regarding

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connections released under Level L1 or L2 in line with the directions issued by the Commission in Case No. 182 of 2014.

Licensees are required to submit the monthly reports as per the revised formats w.e.f. 1 January 2025.



Yours faithfully,

(Dr. Rajendra G. Ambekar)
Secretary, MERC

Encl: Annexure A, Annexure B and revised Formats

Common guidelines for estimation of Maximum Demand (MD) for deciding the required infrastructure to Release New Connections by Tata Power Company Limited and Adani Electricity Mumbai Limited – Parallel Licensing Regime

- i. The estimation of maximum demand of any new Residential or Commercial or Industrial projects / complex shall be done on the basis of the carpet area of the project, approved by MahaRERA.
- ii. The estimation of maximum demand in kW per sq meter (carpet area) (Load norms), calculated by considering connected load norms in kW per sq meter (carpet area) and demand factor, depending upon the type of load, shall be done as per the Table attached below. However, in case the quantum of power requested by the developer is more than the maximum demand calculated by above method, the higher maximum demand shall be considered.
- iii. In case of industrial / big commercial connections (more than 20 kW), the contract demand requested by the consumer in his application shall be considered as it is for estimation of Maximum demand.
- iv. Based on this estimated maximum demand, required electrical infrastructure shall be proposed. The category wise norms for estimation of Maximum Demand of any new project are tabulated below:
- v. The Licensees shall estimate MD based on the above norms and submit their cost estimate proposals for new connections to be released under 53(d) scenario for level 3 and above.



Annexure B- Table: Norms for Estimation of Maximum Demand

Sr. No.	Tariff Category	Class of Premises	Type of Premises	Connected Load Watt / Sq. Mtr (Carpet Area)	Demand Factor (DF)	Estimated MD Norms in Watt/Sq. Meter	Load in VA/Sq. Mtr. after DF & with PF = 0.9	Remark
1	2	3	4	5	6	7 = 5 x 6	8 = 7 / PF	9
1	Residential	Residential	SRA - Non-Luxurious flats	100	0.20	20	22	In case premise is not covered under redevelopment, then consider whole area under Sell
			SRA - Sell / Luxurious flats	100	0.25	25	28	
2	Commercial	Commercial	Office, Shops, Municipal Market, Hotels/ lodge, Banks & Commercial Establishments without/ rare A/C	150	0.50	75	85	
			Banks / Offices / Hotels / Malls / Multiplex Theatres with centralize A/C / extensive use of A/C	200	0.75	150	167	
3	Residential & Commercial		Common amenities like lighting, Car Lift /Escalator, Passenger Lift and Water Pump etc. (excluding fire-fighting load)	Applied load	0.5	Applied load x 0.5	Applied load x 0.5 / 0.9	In case, applicant demanded more load than the total load as per the Carpet area calculations, then the demanded load shall be taken.
		Govt./ Municipal Offices, Educational Institutes	without/ rare A/C	100	0.50	50	56	In case of load more than 20 kW per connection, contract demand mentioned in A1 form shall be considered.
	Public Services & Others	Hospitals & Nursing Homes	with centralize A/C / extensive use of A/C	150	0.67	100	111	
			without/ rare A/C	150	0.20	30	33	
			with centralize A/C / extensive use of A/C	200	0.50	100	111	
5	Industrial	Industries	Service Industries (<= 20 kW)	150	0.5	75	83.33	In case of load more than 20 kW per connection, contract demand mentioned in A1 form shall be considered
			Medium Industries	150	0.6	90	100	
			Heavy Industries (Furness, IT/BPO/Data Centres etc.)	200	0.75	150	166.67	

Note: Fire-fighting load is a passive load and hence the load should not be considered for demand calculations.



Format 1 (A)
(For single connection in same building/project/premise)

Report regarding new connections released at Level 1 (L1) and Level 2 (L2) under Scenario 53(d)
 (in accordance with para. 135.6 of the Order dated 12 June, 2017 in Case No. 182 of 2014)

Name of Licensee:-

Month:-

Sr. No.	Details of consumer					Manner in which connection is released				Date of connection released	
	Application No. with Date	Name of consumer	Address where connection is released	Tariff category	Load in kw/kVA	Applicable Level (L1/L2)	CSS details (Existing)	Existing LT Feeder Pillar /HT feeder on which connection is released	Details of LT augmentation done, if any		Length of service cable
1	2	3	4	5	6	7	8	9	10	11	12
							(Name/ Capacity/ Peak load)	(Name)			



Format - 1 (B)
(For multiple connection in same
building/project/premise)

Report regarding new connections released at Level 1 (L.1) and Level 2 (L.2) under Scenario 53(d)
(in accordance with para. 135.7 of the Order dated 12 June, 2017 in Case No. 182 of 2014)

Month:

Sr. No.	Project Details										No of Connections in the Premise actually released during the month					Cumulative No of Connections in the Premise actually released till this Month				
	Completed Application No/ CA No	Application Date	Name of Project	Address of Project	Utility's Zone	Plot Size (Sq Mtr)	Type of Development (New / Re-Development)	Carpet Area (Sq. Meters) as per the sanctioned plan of MCGM	No of Connections in the Premise as per sanctioned plan	R	C	I	Others	R	C	I	Others			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				



Format - 1 (B)
 (For multiple connection in same
 building/project/premise)

Sr. No.	Project Details			Load Details					MD & CSS Details				CSS Details		
	Completed Application No/ CA No	Application Date	Name of Project	Total Load released during this Month (kW)	Cumulative Load released till this Month (kW)	Load released till this Month (Partial / Complete)	Reference Month of earlier submitted report with same name	Sr. No. of earlier submitted report with same name	Estimated MD (kW)	Estimated MD (KVA)	Whether CSS was sought as per DCPR 2034 / Guideline / Regulations / Orders of MERC (Y / N)	IF CSS was sought as per DCPR 2034 Guideline / Regulations / Orders of MERC, reason for waiver of CSS by Utility	CSS Name (1, 2, etc.)	Capacity (kVA)	Existing Peak Demand (KVA)
1	2	3		18	19	20	21	22	23	24	25	26	27	28	29
2															
3															
4															
5															



Format - 1 (B)
 (For multiple connection in same
 building/project/premise)

Sr. No.	Project Details				Existing)				Manner in which connection is released					Justification for releasing load under L1 / L2 level
	Completed Application No/ CA No	Application Date	Name of Project	% Peak Loading (Existing)	% Peak Loading (after release of new connection)	Distance of feeding LT mains (8W/ 6W / 4W / MP) from source CSS	Distance of project premises from feeding LT mains	Whether feeding LT mains is in ring system? (Y / N)	Date of release of Connections					
1	2	3	30	31	32	33	34	35					36	
2														
3														
4														
5														



Format - 1 (C)
(For multiple connection in same building/project/premise)

Sr. No.	Consumer Application Details			Residential Load Details			Commercial Load Details				
	Completed Application No/ CA No	Name of Project	Address	Carpet Area (Sq. Mtr)	Connected Load per Sq. Mtr.	Demand Factor	Estimated MD (kW)	Carpet Area (Sq. Mtr)	Connected Load per Sq. Mtr.	Demand Factor	Estimated MD (kW)
1	1	2	3	A	B	C	$D = (A \times B \times C)$	E	F	G	$H = (E \times F \times G)$
2											
3											
4											
5											

Note: Please link the data of column C, D, E, R & S with the sheet "New Format 1 (B) Multi Conn"

Note: In case of multiple categories in Other Load for single premise, please repeat column N, O, P and Q and accordingly add those figures in column R and S respectively



Format - 1 (C)
(For multiple connection in same
building/project/premise)

Sr. No.	Consumer Application Details			Other Load Details			Consumer Application Details		Load Details
	Completed Application No/ CA No	Name of Project	Address	Carpet Area (Sq. Mtr)	Connected Load per Sq. Mtr.	Demand Factor	Estimated MD (kW)	Carpet Area (Sq. Meters) as per the sanctioned plan of MCGM	Estimated MD (kW)
1	2	3	I	J	K	$L = (I \times J \times K)$	$8 = A + E + I$	$23 = D + H + L$	
2									
3									
4									
5									

Note: Please link the data of column C, D, E, R & S

Note: In case of multiple categories in Other Load fo

