

Guidelines for Material used in Nonstandard meter cabin

AEML/ MDB/NONMC/18



Adani Electricity Mumbai Ltd		Guidelines for Material used in Non standard meter cabin
Revision: RO		Date of Issue: 23/04/2021

Contents

A) Introduction	3
B) Existing scenario	3
C) Prerequisites	3
D) Guidelines for metering cabin arrangement on compound wall	3
E) Technical requirement of material	4
F) Reference standard	5

Adani Electricity Mumbai Limited

Adani Electricity Mumbai Ltd		Guidelines for Material used in Non standard meter cabin
Revision: RO		Date of Issue: 23/04/2021

A) Introduction

Adani Electricity is serving more than 25 lacs consumers across Mumbai suburban distribution area. This specification is provided technical details and requirement of material which are intended for using in NON standard meter cabins on wall structure as a special case.

B) Existing scenario

As per AEML prevailing practice, the FRP meter cabin sizes 2/6/12 meter is requested to installed at on the wall structure. However, due to some constraints few consumers have suggested/ applied for provision of Nonstandard metering cabin installation on wall structure.

C) Prerequisites

The MMP vendor is required to obtain necessary approvals & follow the guidelines let down by AEML authorities.

D) Guidelines for metering cabin arrangement on wall.

1. All requirements let down in AEML service design guidelines and service installation guidelines shall be applicable for design and installation of such metering arrangements.
2. Meter Cabin Location shall be approved by concerned AEML representative.
3. Metering installation shall be protected from excessive dust and moisture, exposure to direct sunlight, rain, water seepage and vermin. The temperature within the meter room shall not be more than 10°C above ambient. It should not be in proximity of machineries, heating devices, equipment generating high vibration or magnetic fields and areas prone to fire and toxic hazards.
4. All electrical equipment shall be installed above the Mean Sea level as declared by local Municipal Authorities.
5. Meter cabinet size shall be derived considering no. of single and three phase meters being installed, as per service installation guidelines.
6. 24 Hrs easy access to AEML employees for inspection, operations & maintenance shall be provided.
7. Approach to meter cabinet shall be clear and there shall not be any obstruction for movement of AEML men's and materials.

Adani Electricity Mumbai Ltd		Guidelines for Material used in Non standard meter cabin
Revision: RO		Date of Issue: 23/04/2021

8. Meter cabinet shall be independent form installations of other utilities such as water mains, telephone lines, inter-com lines, gas pipes or any other services.
9. Proper locking arrangement shall be provided for meter cabinet.

E. Technical requirement of materials

Cl. No	Material	Technical requirement
E.1	Non asbestos -Fiber cement sheet	18mm thick with water repellent coating as per IS As per IS: 14862, ASTM C 518 , ASTM C 518 , ISO 8336. Please refer AEML specification no SP-CES-EL-FCSHT-ROO
E.2	Black Kaddapa stone	20mm thick , 350 mm width of kaddapa
E.3	Door of meter cabin	Doors shall be made by PVC/ FRP material with slanting louvers viewing arrangement in aluminium frame. PVC/FRP material shall have uniform thickness 3 mm with UV resistant property. Thickness of Aluminium frame shall be 2 mm The colour of doors shall be Siemens grey. The doors shall also be provided with standard padlocking with door sealing arrangement. Doors shall be fitted with hinges (minimum 5 nos on each side) of stainless-steel material (minimum grade SS 304) such that the door shall open through an angle of minimum 110 degrees.
E.4	Rain shed of polycarbonate black colour sheet of 3mm thick	400mm width and length as per length of meter cabin -50mm on either side of meter cabin

Adani Electricity Mumbai Ltd		Guidelines for Material used in Non standard meter cabin
Revision: RO		Date of Issue: 23/04/2021

F) Reference documents:

Sr. No.	Reference document name
1.	AEML Specification no SP-CES-EL-FCSHT-ROO- Fiber Cement sheet .
2.	AEML Service design and installation guidelines no AEML/MDB/F/17

Adani Electricity Mumbai Limited