



## GUJARAT MINERAL DEVELOPMENT CORPORATION LTD

(A Govt. of Gujarat Enterprise)  
CIN: L14100GJ1963SGC001206  
GST :24AAACG7987P1ZT

**T.No-03/AMBAJI/CORE STORE BUILDING/2026**

**Work of**

**Construction of Core Store Shed including Electrical work at GMDC  
Copper Project, Ambaji, Dist. Banaskantha Gujarat.**

## **TECHNICAL SPECIFICATION**

**GUJARAT MINERAL DEVELOPMENT CORPORATION LTD (GMDC)**

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## TECHNICAL SPECIFICATION OF NON-SOR ITEMS

Item No : 21 Shed : Design, supply, erection and Installation of GI roofing & vertical sheeting as per approved shop drawing by Architect.

1. Frame Type : TCMS-1
2. Width (O/O of Steel Line) : @42.85 Mtr
3. Length (O/O of Steel Line) :17.46 Mtr
4. Clear Heights: 4. 038 Mtr
5. Width Module :1@20.525m O/C + 1@20.525m C/O
6. Slope of Roof :1:10
7. Sidewall Bay Spacing :1@7.830m O/C + 1@7.830m C/O
8. End wall column spacing :1@6.841m O/C + 4@6.842m C/C + 1@6.841m C/O
9. Type of End Frames :Non-Expandable light End frames
10. Bracing Type :X-Rod Bracing
11. Roof Sheeting :Profile Sheet- 0.50 mm PPGL
12. Wall Cladding :Profile Sheet- 0.50 mm PPGL
13. Right Sidewall :Full height Sheeted
14. Left Sidewall :Full height Sheeted
15. Front Endwall :Full height Sheeted
16. Back Endwall :Full height Sheeted
17. Type of Gutter & Downspout Material same as wall sheeting colour & Downspout
18. Building Condition Enclosed
19. Building Base Pinned Base .

### ROOF ACCESSORIES

- Skylight (Roof) : 2 mm Thick Polycarbonate Sheet Translucent as per drawing
- Insulation (Roof+ Wall) : NA

### WALL ACCESSORIES

1. Canopy (with Soffit) 0.90 Mtr Projection
2. Framed Openings : 1 No's RS= 1.5 mt x 2.1 mt , 2 Nos-D= 1.5 mt x 2.1 mt , 8 Nos V = 1.2 mt x 0.6 mt
3. Cage Ladders :1 No's Consider
4. Wall light : NA CRANE DETAILS : Only Crane Bracket Consider

### Surface Preparation :

Primary Members :Sand Blasting Factory Applied One Coat of Epoxy Paint of 90–100-micron DFT (Touch up at site as required)

**Secondary Members (Purlins & Girts) 120 GSM Pre – Galvanized (C & Z Purlin) Anchor Bolts - Black Steel**

**B. DESIGN LOAD & DEFLECTION CRITERIA DESIGN LOADS**

- 1 Live Load (KN / m<sup>2</sup>) 0.57 kn/sqm**
- 2. Wind Speed (m / s) 47 m/s**
- 3. Dead Load 0.10 kn/sqm**
- 4. Seismic Zone III**
- 5. Roof Collateral load NA**
- 6. Minimum Thickness Criteria Primary = 5 mm Secondary = 1.5 mm**
- 7. Building Condition Enclosed**

**B.1 Applicable Design Codes Loads are applied in accordance with: Wind Load application as per IS 875 Part III-2015, Design According to AISC -360-2010(ASD) and Serviceability according to MBMA 2012. Seismic design as per IS 1893 (Part-1):2002 & IS 1893 (Part-4):2005**

**Hot rolled and Built up sections are designed in accordance with: Manual of Steel Construction, 9th Edition American Institute of Steel Construction (AISC) Built-up tapered solid web sections are designed in accordance with: Manual of Steel Construction, 9th Edition American Institute of Steel Construction (AISC) Cold-formed members are designed in accordance with: IS 801-1975 Welding is applied in accordance with: American Welding Society (AWS D1.1.10) Structural Welding Code– Steel**

**SPECIAL NOTES AND INCLUSIONS :**

- 1. Rigid frame structural for columns, rafters with endplates, purlins, girts, Bracing**
- 2. All necessary flashing, trims, Eave Gutter and down take pipe**
- 3. Structural Hardware, End lap sealant**
- 4. Anchor bolts and templates**

**Work including Ridge cover, valleys, gutter, overlapping, jointing, riveting, bolting, clamping, Anchor Fasteners with hot dipped galvanized, high strength bolts, EPDM washer, necessary tools, tackles, Scaffolding, Hydra, any type of Machinery & Equipments, fittings, fixtures, Adhesive, sealant, grouting, labour, drilling, gutter, corner profile, including all accessories etc. completed as per approved drawing. The contractor shall submit works stability certificate after execution of work. Contractor shall submit shop drawing & load calculation for approval of Architect. Roof plan Area shall be measured for payment.**

**1. Materials:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.

**2. Workmanship:**

- Work complete as per above specification.
- Work complete including all types of tools, tackles, labour etc complete at any level and height.
- The whole work is to be completed as per design; sample material & any other requirement shall be as per instruction of Architect/Client.

**3. Measurement**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all materials, finishing, labour, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of one Square meter. Roof plan area shall be measured for payment.

**Item No : 22 Turbo Ventilator with PC Base : Providing and fixing 610 mm dia Automatic grade Turbo Air Ventilator as per approved material by Architect/Client. Thickness minimum 0.5mm thick, Material: Aluminium. The Connecting assembly shall have high quality permanently lubricated and sealed ZZ- steel ball bearings. The bearings shall not be exposed to dust etc. It shall be ensured that the ventilator head is perpendicular to the ground. Including cost of all type of tools, tackles, scaffolding, all labour, materials, transportation, Finishing, all type of fabrication & steel work with paint, accessories , silicon sealent,. Work complete for at all floor, all level, all depth, all Height, all lead and lift etc. work complete as per the detailed specification, shop drawing, approved sample, instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.**

**1. Materials:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.

**2. Workmanship:**

- Work complete as per above specification.
- Work complete including all types of tools, tackles, labour etc complete at any level and height.
- The whole work is to be completed as per design; sample material & any other requirement shall be as per instruction of Architect/Client.

**3. Measurement**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all materials, finishing, labour, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of one Numbers.

**Item No : 23 Storage rack (500 mm depth) : Providing & laying of interlocking cement block of size 0.23 m x 0.23 m x 0.10 m thick OR brick masonry work (0.23 m thickness) in CM1:6 with plaster and paint having strength not less than 35kg/cm<sup>2</sup> including materials & labour, line, level & proper jointing with plastering for a finished surface look using cement mortar. Providing & laying of RCC slab (50mm thick) OR polished Bansipurpahar stone (30mm thick) of size 1.5m x 0.5m including finishing with cement mortar complete. including lintel, top beam etc. work completed including mock up sample, all materials, loading, unloading, transportation, placing at all floors and for all leads, at all floors, all levels, all heights and all shapes, all accessories, protection sheet etc. work complete as per the detailed drawing, approved sample and instruction of Architect/EIC. Sample mock shall be approved from Architect/EIC.**

**Ref Image**



**1. Materials:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.

**2. Workmanship:**

- Work complete as per above specification.
- Work complete including all types of tools, tackles, labour etc complete at any level and height.
- The whole work is to be completed as per design; sample material & any other requirement shall be as per instruction of Architect/Client.

**3. Measurement**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all materials, finishing, labour, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of one Square meter. Elevation area shall be measured for payment.