



Mormugao Port Trust, GOA

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**MORMUGAO PORT TRUST
MECHANICAL ENGINEERING DEPARTMENT**

CME/XEN(M-P)/S&T/ 2017/02

INVITES BUDGETARY OFFER FOR

**“SUPPLY, INSTALLATION, COMMISSIONING & HANDING OVER OF 1 No.
PRE-FABRICATED PORTA CABIN AT MPT RAILWAY YARD”**

Submission on or before 07.03.2017

Superintending Engineer (E-P),

Mechanical Engineering Department,
Mormugao Port Trust,
2nd Floor, Admin. Building,
Headland Sada
Goa - 403804

Phone : (0832) 2594228/2594257

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TECHNICAL SPECIFICATIONS

Supply, Installation, Commissioning and handing over of 1 No. Pre-fabricated Porta Cabin of size **6 Mtr X 4.5 Mtr X 3.5 Mtr** at Mormugao Port Railway yard, Goa as per the attached drawing specification as detailed below :

1. The Porta Cabin is to be made of pre insulated sandwich panels having properties like density, compressive, tensile strength, structural, water absorption properties and hot dimensional stability, cold dimensional stability, thermal conductivity, etc, as certified by Central Institute of Plastics Engineering and technology, Government of India. Guindy, Chennai.
2. The basic steel frame should be strong enough to support the structure and the steel structure to be strengthened in places where some heavy units like Power distribution panels that are mounted with the vertical support of the wall.
3. The outer walls should be made up of SMC(sheet molding compound) depression panels of pyramid shape modular type as per IS 10192 capable of withstanding pressure of 180Kmph,manufactured by hot compression molding process of size 1MX1M with fire retardant as per UL-94 Standard.
4. It should be shock proof, resistant to saline and chemical nature and having thermal insulation properties with flange of 75 mm having minimum thickness of 9 mm on all four sides. The panel depression will be of minimum thickness 2.5 mm. The panels shall have predrilled on the flange area. The panels are to be joined together using EPDM BUTYL Rubber Gas/PVC Foam Gaskets(75 mm Width and 2.5MM Thick).
5. The panels are to be assembled using M 10X40 SS fasteners. 3 nos. per flange Polyurethane coating shall be given to the outer walls of the panels.
6. Inner wall paneling should be of Polymeric panels of minimum 6mm thickness, width and air gap of minimum 4mm and the panels joint together by tongue and groove using self tapping screws.
7. Polyurethane coating should be given to the outer shell of the SMC Shelter. The Shelter should be weather proof, Resistant to chemical and saline nature, Shock proof, Fire retardant and Maintenance free.
8. Flooring: PVC rolls of 2mm thickness of reputed make like wonder floor, ocean blue colour to be provided . The firm has to consult the Installation Officer to select the colour / brand of the floor files.
9. Doors: Doors should be of SMC hot compression moulded with suitable hinges, handle and two pad locks front side and rear side respectively. Size 2M X1M with rubber bulb bedding for

air-tight closure of doors. Puff insulation of minimum density 38 Kg/Cu.m. Polyurethane foam should be injected in to the cavity of the above SMC panels on the walls and 25 mm thick and minimum density of 38 Kg/Cu.m .Polyurethane foam sheets in between partition paneling for better thermal insulation.

10. Windows: Windows should be of Polymeric frame of size 90mmx90 mm with open type doors of glass with suitable thickness of 5 mm. The windows should have steel grills. All the windows and front door should be provided with proper sunshade. Size of the sun shade should be sufficient, enough to serve the purpose. The design, Size, colour of the paint to be applied on the grill to be got approved from Installation Officer / this office.

11. Observation window of size 30 mmx30 mm are to be provided in the entry door. Inner wall paneling should be of polymeric panels of minimum 6 mm thick with an air gap of minimum 4 mm and the panels joined together by tongue and groove using self tapping screws.

12. False ceiling frame works made out of anti corrosive painted 25 mm square tubular section designed to be fixed to the above roof truss and walls using M6 Fasteners of suitable length. False ceiling should be done with polymeric section of minimum 6 mm thick with an air gap minimum of 4mm these panels joined together by tongue and groove using self tapping screws. Height of the false ceiling should be 3Mtr. from the floor.

13. Roof truss should be made up of anti corrosive GI corrugated painted 25 mm square tubular section designed to suit the roof structure with colour coated roof sheet with top plate to be fixed with fasteners to with stand high wind pressure.

14. Electrical System: The firm has to provide the entire electrical installation including the required wiring, as per the electrical plan approved by CME. The wire/cable used should be of reputed Make of suitable ratings as advised by the installation Officer. The firm has to provide lighting points and fan points for all the rooms and corridors. The firm should fix one Three Phase 440V,50 HZ Power Distribution Panel of approx. size of 450mm X 450mm. All the materials like MCBs, wires, PVC conduits, necessary switches, etc, which are required to complete the electrical installation as per the approved electrical plan should be included in the offer. Cutouts should be made where necessary for electrical fittings, Switch Boards etc

Scope of Works/Material

1. Prefabricated Porta cabin of size of 6m x 4.5m x 3.5 m as per the technical specifications.
2. Flooring works as per specifications.
3. False ceiling works as per specifications.
4. Door (size -2mx1m) - 1 No as per specifications.
5. Windows(size-3 feet x 3 feet) - 4 Nos as per specifications
6. Electrical Works and materials as per Electrical Plan with specifications including Three phase, 440 V, 50HZ Power Distribution Panel- 1 no, Twin tube light with fitting-4 nos, Ceiling Fan- 2nos, Power point for AC-2Nos and power supply Cables / wires / switches required thereof. Actual plan / drawings / electrical plan / material should be submitted by tenderer which will be approved by Chief Mechanical Engineer.

Terms & conditions

1 Period of validity

The budgetary offers shall remain valid for a period of **THREE MONTHS** from the date of opening.

2 Period of completion

The time period for completion of the work is 1 month.

The budgetary offer shall be submitted on or before **7.3.2017 at 11.00 a.m** along with technical details and drawings with terms and conditions by post or e-mail to following address;

Superintending Engineer (E-P)

Mechanical Engineering Department,
Mormugao Port Trust,
2nd Floor, Admin. Building,
Headland Sada
Goa – 403804

Phone : (0832) 2594228/2594257

Fax : (0832) 2521175

Email : cme.mgpt@gmail.com, xenpnd.mgpt@gmail.com

Bill of Quantity

S.No.	Description of Item	Unit	Quantity	Rate in Rs.	Amount in Rs.
1	Supply of Pre -fabricated Porta- cabin of Size 6mx4.5mx3.5m as per drawing	No.	1		
2	Installation,Commissioning and Handing over	No.	1		

Total

(In words Rs. _____)

Signature: _____

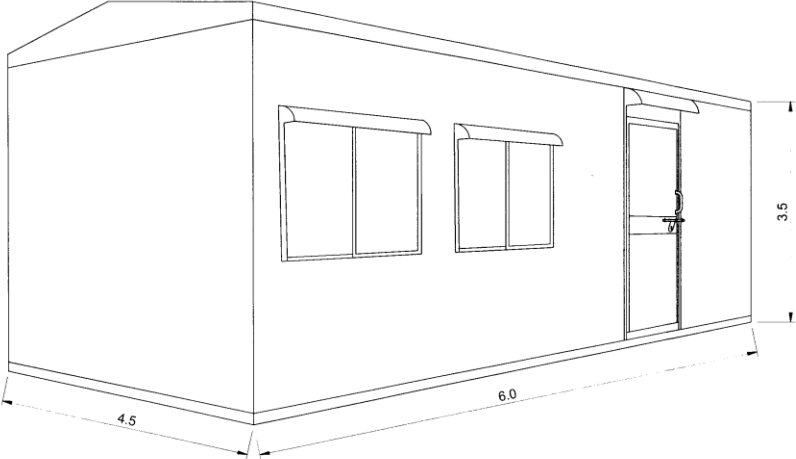
Name: _____

Address: _____

Office Seal:

Note: The offered rate shall be inclusive of all taxes & duties. Service tax shall be paid extra as applicable. However, if any new tax imposed by state/central govt, same will be reimbursed on producing documentary proof.

PORTABLE CABIN FOR EI ROOM



SCALE: N.T.S.
ALL DIMENSIONS ARE IN MTRS.

SKETCH NO.	20170227-1/0	DATE	27-02-2017
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