

# NATIONAL CENTRE FOR SUSTAINABLE COASTAL MANAGEMENT

Ministry of Environment and Forests (MoEF)

Koodal Building, Anna University Campus

Chennai - 600025

*Technical Specifications for Mobile Laboratory Container*

**Number required : 2 Nos.**

**ISO MODIFIED CONTAINER– BRAND NEW 20 FEET LENGTH –STANDARD LABORATORY CONTAINER**

**SIZE: 20' GP: 20' X 8' X 8'.5" (L X B X H)**

Side Panel - 2.1 mm Thickness

Front Panel - 2.2 mm Thickness

Door Panel - 2.6 mm Thickness

Roof Panel - 2.4 mm Thickness

<b>20' GP Container Dimensions</b>		<b>Feet</b>
Inside Dimensions	Length	19'4"
	Width	7'8"
	Height	7'10"
Door Opening	Width	7'8"
	Height	7'6"
		<b>Kilograms</b>
Weight	Max. Gross	24000
	Tare	2150
	Max. Payload	21850
		<b>Cube Metres</b>
Capacity		33,150

## **SCOPE OF WORK PER CONTAINER:-**

Entire panel roof fully insulated with thermocol poly – oil with 6mm high density commercial MDF – wood paneled throughout interior

- 4 nos. – 30 x 24 inches, 5 mm glazed sliding windows with finger press lock & rain gutters closable from inside.
- 1 no – 7' x 3' main outer door fabricated by 40 mm square tube with 3 mm thickness metal sheet for complete safety.
- 1 no – 7' x 3' main inner aluminum semi glass door with door closer and modular lock to maintain air conditioning.
- 2 nos. – 2 tonn split a/c (With 5 Star Rating)
- Over head file cabinet ( 20' 1 ) on either side of the container.
- 3 nos. – work station table ( 3' 1 )
- 3 nos.- table with epoxy top ( 3' 1 )
- 1 no – SS sink with tap
- 14 nos. – 5 / 15 amps multi-socket and switches
- 1 no. - 10 kv or suitable self start silent genset for smooth functioning of 2 nos. of 2 tonn split a/c (With 5 Star Rating)
- Rolling chairs (6nos.)
- Provision for solar paneling (foldable) on top of container (approx. 100sq ft).
- High quality concealed wiring system with sufficient power points/switches , 20 amps tripper for a/c, 4 nos. 5 amps pin sockets with switches for computer, fax printer etc provided in two sides bottom of windows , 2 nos. double fitting tube for good illumination.
- Tile flooring for smooth and rich look.
- Input electrical power connection socket, a/c power socket should be provided in outside panel covered with a metal db box.
- After completion of fabrication work the container will be painted with Marine painting system for longer life.
- Sun shade (foldable) for windows.
- Clamped stand on the side of the container to hold the water tank.
- 100 litres back up – small water tank.
- Provision for external AC power socket
- Provision for external water supply.

- Epoxy/Teflon workbench coating should be provide.
- Acid resistant non-metallic glass reinforced polyester (GRP or Ceramic sink with tap) laboratory sinks should be provided.
- NCSCM logo should be painted on the front side of the container.
- Exterior of the container should be painted in aqua blue/aqua blue- green colour paint.
- Slot for the Genset with closure should be provided.
- LED lamps should be provided inside the container.

### **Hardware**

- High quality locks to be used for doors.
- High quality door closers will be used for durability

### **Electricals:**

- Iso-branded wires to be used
- High quality LegrandMCB breakers to be provided
- Branded Romo switches to be provided for electrical points

### **Performance Security**

- Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the Director, National Centre for Sustainable Coastal Management (NCSCM), Chennai (Employer) the performance security (either a bank guarantee or a bank draft in favour of the Employer) for an amount **equivalent of 5 % of the** contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in clause 12.
- The “Period of Maintenance” for the work is 36 months from the date of taking over possession occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.
- **Warranty :- 3 years for all Equipment including spares.**

Drawing for mobile containers

**20' GP - Mobile Container Lab**

