TECHNICAL SPECIFICATIONS FOR CONTAINER TYPE PORTACABIN SITE OFFICE:- Design, Supply & Installation to be done by Contractor for POWERGRID use.

a) Typical architectural layout plan drawings for Container type portacabin site office is attached as a part of tender drawings. Contractor shall provide detail drawings indicating dimension, facilities, material specification, furniture details & fixtures of the portacabin.

b) Plinth height of the container type Portacabin shall not be less than 300mm above the levelled ground. Levelling of the existing ground is in the scope of the contractor. Further, the contractor shall make concrete pedestal/ stone masonry pedestal/ brick masonry pedestal for resting of the portacabin as per site requirement to maintain Plinth height of min 300mm.

c) The portacabin container unit shall have a minimum height of 2590mm. The structure of portacabin container including roof shall be made of MS structural steel members.

d) The exposed portacabin container structure shall be painted with epoxy paint OR PU paint OR Synthetic enamel paint.

e) The external side of the wall shall be MS corrugated/profile sheet. The internal side of the wall /Internal wall partition should have finishing of: -

(i) Aluminium composite panel exterior grade and joints concealed with aluminium beading.

OR

(ii) Prelaminated MDF board.

For all walls, suitable thermal insulation with glass wool/rockwool or equivalent to be provided.

Alternatively, contractor may provide sandwich panels with galvalume steel sheets on both sides with suitable thermal insulation with Thermocole/glass wool/rockwool or equivalent.

f) Roof shall be MS corrugated/profile sheet (colour coated).

g) False ceiling should comprise of prelaminated MDF board/ Wood plastic composite sheet along with suitable Thermal insulated with glass wool insulation/rockwool or equivalent.

Alternatively, contractor may provide Prefabricated insulated sandwich panels with galvalume steel sheets on both sides with suitable thermal insulation with Thermocole/glass wool insulation/rockwool or equivalent.

h) Flooring should be Marine Ply Board/ cement fibre board finished with waterproof Vinyl Sheet duly pasted.

i) Door made of Structural steel framed structure with internal finishing of decorative prelaminated MDF board/ Aluminium composite panel /Marine ply with Formica & external panelling with MS corrugated/profile sheet sealed airtight. Suitable thermal insulation with glass wool/rockwool or equivalent to be provided.

Alternatively, contractor may provide PPGI (Pre-painted galvanized Iron) framed PUF panelled door.

Further, suitable locking arrangement all required accessories i.e. Door Handle, SS Hinges, Door Stopper, Door Closure etc to be provided.

j) WINDOWS: - For Rooms, Double Track Aluminium Sliding Window Size (3'x3') of approved make with clear glass along with security grill, vertical blinds & Rain guard, locking arrangement.

For pantry &toilet. Double Track Aluminium Sliding Window Size (2'x3') with frosted glass with security grill & Rain guard, locking arrangement.

All frame Joint/Gaps Shall be sealed airtight.

k) Portacabin container should also comprises of all fitting & fixtures of Water closets, wash basin with front mirror, hand wash tray, soap tray etc. all internal plumbing, water supply works all complete as per typical layout drawings. PVC water tank (2000ltrs) with suitable support structure (if required) with supply connections required all complete with smooth operation is also in the scope of the contractor.

l) Details of the furniture, AC, Exhaust fan, ceiling fan required for the portacabin is illustrated as below: -

Sl. No.	**Description of Item**	**Requirement**
(A)	**FURNITURE: -**	
1)	Workstations with 18mm thick prelaminated MDF board tables with keyboard tray provision of drawer with lock & key arrangement with all accessories etc. as per approved make. Each workstation unit with drawer size: - 4'-3" x 2' with wooden partition.	As per layout drawing attached
2)	Wooden cabinet with 18mm thick prelaminated MDF board with lock & key arrangement, all accessories handle, drawers etc. as per approved make size: - 3'3" x 1'6", full height.	As per layout drawing attached
3)	Pantry platform with 18mm thick prelaminated MDF board with lock & key arrangement, all accessories handle, drawers	As per layout drawing attached

	etc. as per approved make size size 14'x2' as per layout.	
4)	Low back revolving Chairs Godrej or Equivalent make for staff	20no.s
5)	Office Table (5'-0"x2'-0") 1 No. & Side Table 2Nos. (3'-0"x1'-4). Executive chair 1no.s & semi executive visitors chair 4no.s. Godrej or Equivalent make.	1 Complete Set
6)	Office Sofa 5-seater & 3-seater of Godrej or Equivalent make.	1 Set each
7)	Tea Table size 4'x2 of Godrej or Equivalent make	2No.s
8)	Conference table: - Conference table size (15'x3') with computer charging point & networking switch of Godrej or Equivalent make along with Executive conference chair 1 no & 13 semi executive conference chairs.	1 complete set
9)	Dining table set: - 8 seater dining table with dining chairs (8 no.s) of Godrej or Equivalent make.	1 complete set
(B)	**AIR CONDITIONERS, Ceiling fan & Exhaust fan with connection arrangements / sockets wiring etc. complete in all respect: -**	
(1)	Split AC Minimum 1.5 TON capacity of approved make with connection and & Cabin ceiling fans should be SWEEP 300mm dia of approved make.	
i)	Engineers Room I &II	Split AC =2 Set Ceiling fan = 3 Set
ii)	Conference room	Split AC =3 Set Ceiling fan = 3 Set
iii)	Dining room	Split AC =2 Set Ceiling fan = 3 Set
iv)	In-charge room:-	Split AC =2 Set Ceiling fan = 2 Set
v)	STA room	Split AC =1 Set Ceiling fan = 2 Set
vi)	Exhaust Fan SWEEP 300mm dia of approved make	1 set each in pantry & all toilets.

(i) ELECTRICAL ILLUMINATION & FITTINGS: -

(i) All wirings shall be concealed type. Room wise illumination requirement including connection arrangements, sockets, points, wiring etc commissioning complete in all respect is tabulated as below: -

Sl. No	Room	Item description	Requirement
1)	Conference room: -	LED tube lights, 20W, 1200mm size & 10W LED Bulkhead light of approved Make.	Tube light =6no.s Bulkhead light= 6no.s
2)	Workstation/ Engineers room: -	LED tube lights 1200mm size Minimum & 10W LED Bulkhead light:	Tube light =6no.s Bulkhead light= 6no.s
3)	In-charge room: -	LED tube lights 20W, 1200mm size & 10W LED Bulkhead light of approved Make.	Tube light =4no.s Bulkhead light= 4no.s
4)	Dining Room: -	LED tube lights 20W, 1200mm size & 10W LED Bulkhead light of approved Make.	Tube light =6no.s Bulkhead light= 6no.s
5)	STA room:'-	LED tube lights, 20W, 1200mm size & 10W LED Bulkhead light of approved Make.	Tube light =4no.s Bulkhead light= 4no.s
6)	Toilet & pantry:'-	LED tube lights, 20W, 1200mm size & 10W LED Bulkhead light of approved Make.	Tube light =4no.s Bulkhead light= 4no.s
Note: - Necessary distribution boards, junction boxes, cabling etc. required for lighting & illumination purposed is deemed to be included in the scope of the contractor.			

(ii) For each container suitable earthing works is in the scope of the contractor.

(iii)Networking connection arrangements, sockets, wiring etc. including networking devices, panels etc. commissioning works complete in all respect as detailed below:-

Sl.no.	Item description	Requirement
1	Conference room i. Telephone points with Cat-6 wire in PVC conduit. ii. Data point with Cat-6 wire in PVC conduit from Workstation to Network Switch & power supply switch for computers.	2no.s 12no.s
2	Workstation/engineers room (2 containers) i. Telephone points with Cat-6 wire in PVC conduit. ii. Data point with Cat-6 wire in PVC conduit from Workstation to Network Switch & power supply switch for computers.	1no.s for each container 9no.s & 5no.s

3	In-charge room i. Telephone points with Cat-6 wire in PVC conduit. ii. Data point with Cat-6 wire in PVC conduit from Workstation to Network Switch & power supply switch for computers.	1no. 2no.s
4	STA Room i. Telephone points with Cat-6 wire in PVC conduit. ii. Data point with Cat-6 wire in PVC conduit from Workstation to Network Switch & power supply switch for computers.	1no. 2no.s
5	Dining room i. Telephone points with Cat-6 wire in PVC conduit. ii. Data point with Cat-6 wire in PVC conduit from Workstation to Network Switch & power supply switch for computers.	1no. 4no.s
6	Pantry i. Telephone points with Cat-6 wire in PVC conduit. ii. power supply switch for microwave, purifier & kitchen appliances.	1no. 4no.s

m) After completion of the Project, the porta cabin containers along with their facilities, shall be taken back by the contractor and cleared site shall be handed over back to POWERGRID.

MODE OF MEASUREMENT

a) The unit of measurement will be in Sqm/months calculated on plinth area basis (based on IS3861) for container type office and associated facilities as per the above technical specification and fully operational monthly basis after taking over of the same by POWERGRID.

b) Maintenance of the building for smooth operation of facilities as per the technical specification is under scope of the contractor without any additional cost implication to POWERGRID.

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