

# Dinesh Micro Waves & Electronics

## Telecom Shelters and Enclosures

Dinesh Micro waves and Electronics manufactures of Telecom Enclosures and Green Shelters for to protect highly sensitive telecom equipments and we also design Enclosures and Shelters as per customer's requirements also. Our design has been very comfortable to place for BTS equipments, amplifiers, Power Interface Units, SMPS Power Supplies/Chargers, Batteries, MW Racks and Tools. The systems are efficiently designed considering the heat generated by the enclosed equipment and environment temperature variations. Advanced Passive Phase Changing Materials have been used for minimum use of Air Conditioners and Generator, low running cost and fault free long life of the equipments. For A/C voltage Fluctuations in Remote/Rural Areas, we are providing Intelligent Power Interface units Specially Designed for them. We are providing cooling sections like Pelletier coolers, Vortex coolers, Passive cooling systems, DC Powered Air-conditioning systems and Exacts fans also. Telecom operators around the world are now exploring the possblities of saving energy while managing tempreature. Passive cooling technology in its shelters by using a wide range of available Phase Change Material (PCM) and it's a latent head supported solution for energy saving.



### **PANEL CONSTRUCTION**

1. The preferb panels with polyurethane Foam (PUF) insulation are available in thicknesses of 20 to 150mm.
2. Multiple choises for panel interlocking are available.
3. Designed to ensure a completely moisture free enviroment.
4. Additional reinforcement are provided on request.

### **Dinesh Micro Waves & Electronics**

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## **SHELTER ROOF**

1. Side sloping roof with reducing thickness.
2. Water tight sealing.
3. Extra wide flashing on roof fridge to avoid any air and wateringress.
4. Additional roof /secondary roof on demand.

## **SHELTER FLOOR**

1. Flooring is of 60mm to 140mm thickness and has been designing to have load bearing capacity of 2800kgs/sqmtrs.
2. The floor is fully supported on rectangle members forming the main grid resting on two steel I-beams.
3. Floor surface has antistatic vinyl flooring over 18mm to 22mm Marine board.
4. Additional reinforcement can be customized for higher load capacity.

## **SHELTER DOOR**

1. Doors are insulated panels of approximately 0.75mtrs to 1.5mtrs wide and 1.75mtrs to 2.5mtrs in hieght and customized sizes can be incorporated.
2. The doors are factory fitted to the main panel to ensure stability and asthetics.
3. The door is fixed in a special aluminum frame fully reinforced and suspended with three industrial hinges and field utility handle.
4. The door panel has a double gasked to ensure sealing from water and air leakages.
5. The 5 position lock systems ensures a high degree of safety, firm and stable locking.
6. Locking arrangements has multikey facility.
7. Doors are provided with auto closed and stopper.

## **PANEL INTERLOCKING**

1. Cam lock interlocking is normally provided.
2. Tongue & groove interlocking and vertilocka are other available options.

## **SHELTER SKIN**

Telecom shelters are available with a choise of panel covering mataerials such as aluminum, stainless steel, pre painted galvanized values and other options.

1. G.I. (Galvanized Iron)
2. P.P.G.I ( Pre Painted Galvanized Iron)
3. F.R.P (Fibre Reinforced Plastics)
4. Stailless steel
5. Wood
6. Aluminium

## **FLEXIBILITY**

1. Different sizes can be made in panel with its not exceeding 1.25mtrs.
2. Modular expansion of the shelter feasible (length only) without disturbing the operational status of the sites.
3. Shelter is suitable for climatic conditions of -40\*c to 60\*c 99.5% RH value, High Rainfall, High Humidity, saline and corrosive atmosphere.
4. Wind velocity withstand about 210Km Per hour.

## **Features**

1. Shelters are prefabricated.
2. Phase change material(PCM)
3. Structurally stable
4. Modular cells
5. Self load bearing
6. Panel locking inside the cell
7. Non deteriorating
8. Odorless
9. Parasite/Fungi/Moth/Vermin proof
10. Thermally insulated
11. Water tight and dust proof
12. Easy and Quick assemble

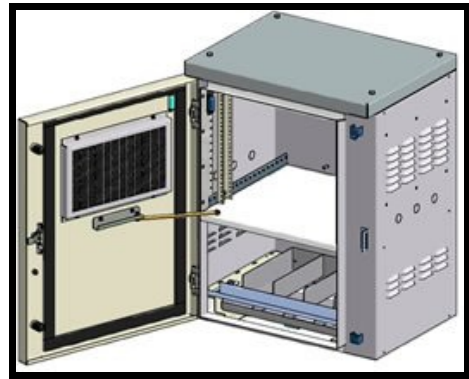
## **OPTIONAL FEATURES**

1. Shelter size and load flexibility
2. Electrical and HVAC Equipment
3. Energy saving equipment
4. Ice missile protection
5. Back-up power equipment
6. EMI/EMC and RFI Shielding
7. International and external lightning protection
8. Earthing systems
9. Cable tray
10. Entry port cable root
11. Installation services
12. Maintenance services

# TELECOM ENCLOSURES

Our Telecom Enclosures are specially designed to accommodate a variety of applications, including cross connect, Wireless, FTTX and Co-location. They can also be integrated to meet specific application and customer needs. The outdoor multipurpose equipment protection enclosure is used when sensitive electronics need protection from harsh environmental conditions and it can be pole mounted or concrete pad mounted. Wall mounted 11 to 16 gauge galvanized steel with powder coat finish, reinforced hinged lid with pad-locks 3-point latch, constructed to NEMA 3R specifications. The enclosure provides additional capacity to an existing cabinet when that capacity has reached maximum. It is retro-fitted in the field using a mounting template and an easy six step instruction sheet and common hardware fasteners. MDU enclosures are a family of apartment security boxes for the cable television industry and these enclosures are an economical solution to high level security applications, and available in a variety of sizes and internal mounting arrangements. There are multiple knockouts for cable entry allowing various sized cable and conduit. The ultimate-use cabinet insulated and temperature – regulated, they protect cables and components from moisture and temperature.

Featuring rugged mil galvanized steel construction and powder coat paint finish, the cabinet is exceptionally durable.



## FEATURES

1. Enclosure Provides 6 rack & 9 rack units of vertical rack space in an EIA standard.
2. 19" rack that is also adjustable front to rear.
3. Sun Shield – Double wall roof for added solar protection

4. 3 Point Pad Lockable Latches
5. Magnetic door sensors/Gasketed entrance with integrated door stop arm.
6. Thermostatically controlled exhaust fans with filtered intake
7. Ground Bar
8. Battery compartment, sealed from the equipment and ventilated
9. Cable entrance knock-outs on each side of enclosure
10. Pad or wall/pole mounted options available
11. Two door options also available
12. Hinged reinforced door(s) with integrated door stop arm
13. Screened ventilation louvers to and bottom on two sides of enclosure
14. Surface mountable
15. Quad GFCI receptacle
16. Bottom cable entry knockouts
17. Filtered ventilation louvers on front and rear doors
18. Thermostatically controlled AC or DC exhaust fan (optional)
19. Air Conditioner options available
20. Can be mounted to either side of the existing cabinet.
21. Reversible equipment mounting rack options
22. Climate control options are also available
23. Superior chemical resistance and will withstand ultra-violet radiation
24. Equipment housing will withstand many years of service
25. Easy to work on equipment from any angle
26. Top hinged cover with integrated cover prop arm
27. Several lock styles available, including:
  - \* Keyed Slam lock or pawl lock
  - \* Diversified security screws
  - \* Intertite lock
28. Optional wood backboard or metal mounting plates are available

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