



# Equipment Enclosures

The most comprehensive range of solutions



**U-Foam Private Limited**, An ISO9001:2000 company was incorporated in 1959, by our Chairman Mr. M Sarangapani, the "Father" of the Indian Polyurethane Industry. U-Foam pioneers the usage of Polyurethane Foams in all it's diverse areas.

Leading the way and setting standards and benchmarks for this product line since 1996 and selling over 20,000 units over the last three years, U-Foam today is the largest equipment enclosure manufacturer in India with two production facilities one in the North and the second in the South.

U-Foam shelters in telecommunications are used by all operators and equipment suppliers and our shelters can be found from Jammu and Kashmir in the North to Kerala in the South and from Gujarat in the West to Arunachal Pradesh in the East, besides the Andaman and Nicobar Islands and Lakshadweep.

U-Foam shelters in power industry are used by all leading contractors for their substations being constructed for PGCIL. In-fact our prefab containers are the first units to be PGCIL approved.

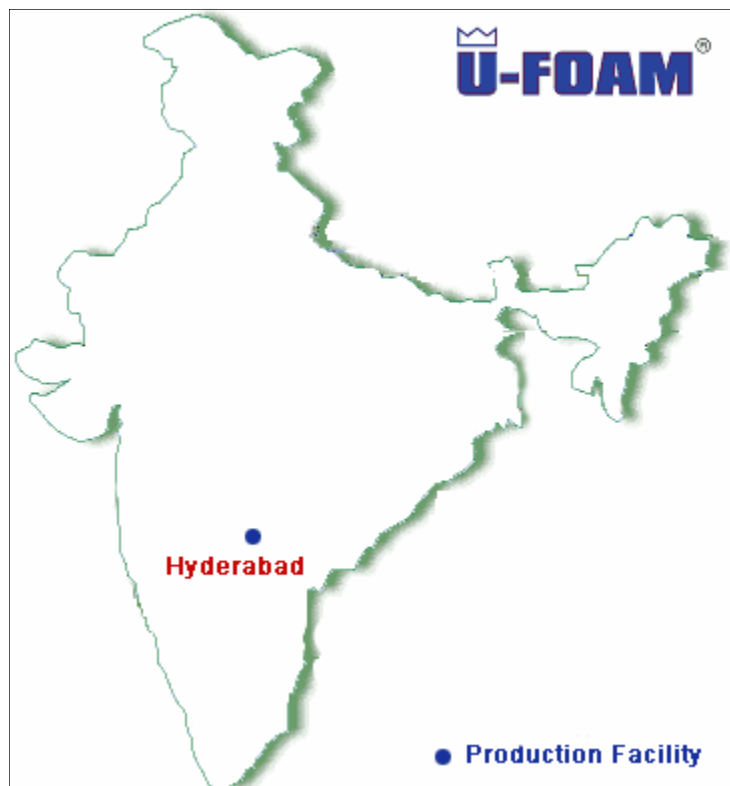
U-Foam with an annual production capacity of 1.5 Million Square Meters of Panels is in a position to deliver 2500 units per month which address even the most demanding rollout schedule.

U-Foam is the only company where it's outdoor enclosures are "certified" IP55.

With an in-house design facility and FEA on all models our products are designed to meet and perform even in the harshest environmental conditions Wind speeds of over 300 KMPH (55 m/s), Earthquakes of Zone V, besides having equipment floor load requirements of in excess of 3500 Kg/m<sup>2</sup>

Our Products can even be designed to be "Fire Rated" of in excess of 2 hours.

Enclosure sizes range from the smallest 1,000mm(L) x 1,000mm(W) x 500mm (H) to 12,000mm(L) x 6,000mm(W) x 45,00mm(H).



## User Profile

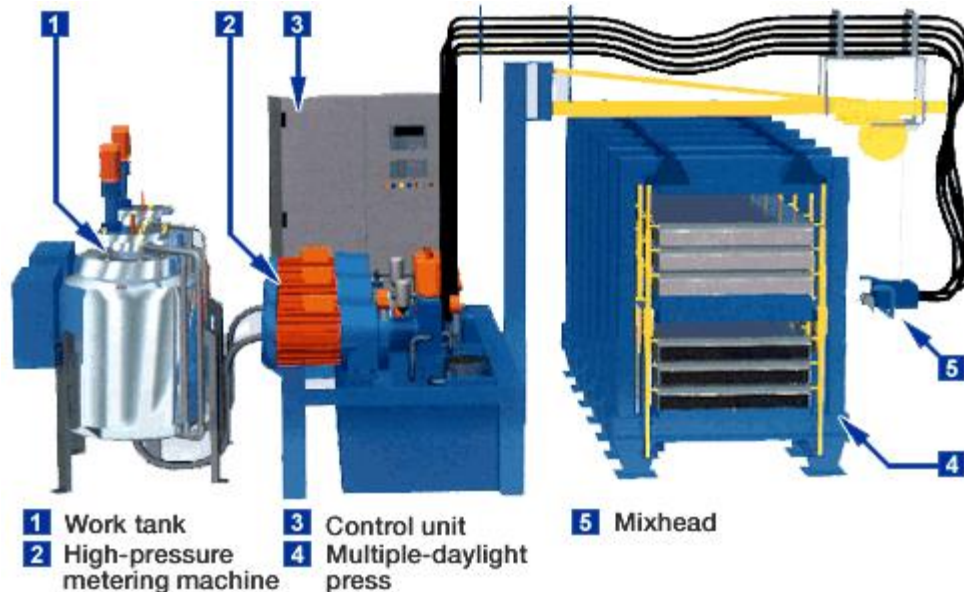
Our enclosure solutions are used in Telecommunication for enclosures for GSM as well as CDMA equipment for both ground based and Roof Top sites, in Power for Control Kiosks at mission critical generating stations besides substations, Railway communication networks, in rural solar electrification equipment enclosures, Automotive for equipment testing such as dynamometer chambers where internal wind speed exceeds 180 KMPH, Curing chambers in Paint Booths. Materials testing.

## Our Record

Over 30,000 of our products have been supplied to various customers who include

- Aircel (Maxis Telecom)
- Reliance Infocom
- Tata Teleservices
- Bharti (Airtel)
- Reliance Telecom
- Idea Cellular
- Vodafone
- BSNL
- MTNL
- RN Infracommunications
- The Indian Railways
- Railtel Corporation of India
- Xcel Telecom
- Maruthi Udyog
- Forbes Marshall
- Nortel Networks
- Ericsson
- Nokia Siemens
- Motorola
- ZTE
- GTL Limited
- Power Grid Corporation
- Larsen and Toubro
- ABB
- United Telecom
- Leadcom
- Tower Vision
- Reliance Industries
- Bullows
- Reliance Industries Limited

## Superior Production Process:



Viscosities of chemicals which play a very key role in the quality of foam, these are maintained under constant temperature in Jacketed tanks

Polyurethane chemicals which are CFC Free and environmentally friendly are injected into the mould cavity being impinge mixed at high pressures which exceed 150 bar.

Polyurethane foam exerts a foaming pressure of between 1.5 to 2.8 Kg/cm<sup>2</sup> pressure, this is countered with machined platen surfaces in the press which ensures a surface tolerance of +/- 0.5mm

Plattens are heated ensuring development of excellent bonding strength between the skins and the foamed core.

- ISO-9001:2000 Certified facility.
- Highest quality of Insulated Panels are produced using state of the art machinery and multi-daylight presses.
- Highest standards of Raw Material selection.
- Advanced Tooling, Jigs and dies ensure excellent panel systems.
- Large covered storage space for finished goods for over 2000 SKD Kits.
- In house Test lab covering all critical parameters.
- All Accessories sourced direct from Manufacturers ensuring quality products
- Over 300 factory trained installation crews
- Over 45 years of experience with Polyurethanes

## Technical Specifications of the enclosures:

**Typical Sizes:** Lengths: 1500, 3000, 3500, 3600, 4000, 6000, 10000, 12000  
(mm) Width: 1000, 2000, 2400, 2800, 3000, 4500, 5000  
Height: 2400, 2500, 2600, 2800, 3000, 3500, 4500, 6000

### Customised dimensions made on request

**Cladding materials:** Choice of Aluminum, Pre Coated Steel, GI, CR. or Particleboard of appropriate cladding thickness as specified by the buyer.

**Insulation Material:** Best Quality Polyurethane foam, CFC-Free, ('k' value 0.02 W/m<sup>0</sup>K), is used to make the panels using a High-pressure Foam injection machine Densities ranging from 32 Kg / m<sup>3</sup> to 70 Kg / m<sup>3</sup> can be provided. Complete technical literature on the properties of foam used can be had from the Company upon request.

**Insulation Thickness:** Diverse range of panel thicknesses (mm)

- 25
- 40
- 50
- 60
- 80
- 100
- 125

**Panel Jointing:** Two alternatives

- Patented cam lock process.
- Cam-lock free process

**Floor Loading:** Can be designed to withstand 3500 Kg/Sqm

**Survival Wind Speed:** Can be designed to withstand 300KMPH

### Other Provisions & Accessories available on request such as

- Access Staircase
- Internal Cable Trays of either Aluminum or Steel
- Internal Electrification
- Air-conditioning
- Ventilation systems
- Air Circulation systems
- Passive Cooling Materials
- False Flooring
- Wave guide entry plates
- Cable Glands

**Snapshots of some of our products:**



Internet Centre on Wheels



Mobile BTS Solution



closure

Roof Top  
Equipment



Outdoor Shelter

En-



Power Sub station Kiosk

**Other Prefabs manufactured by us:**



Refrigerated Trucks

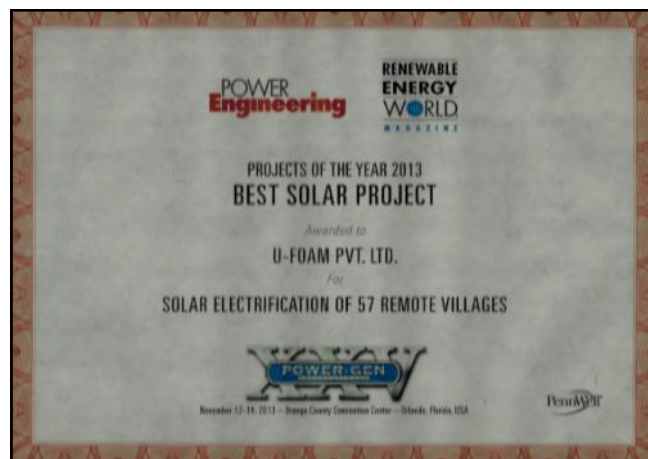
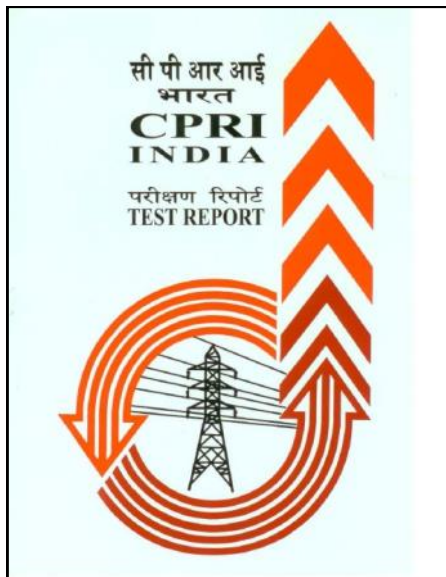
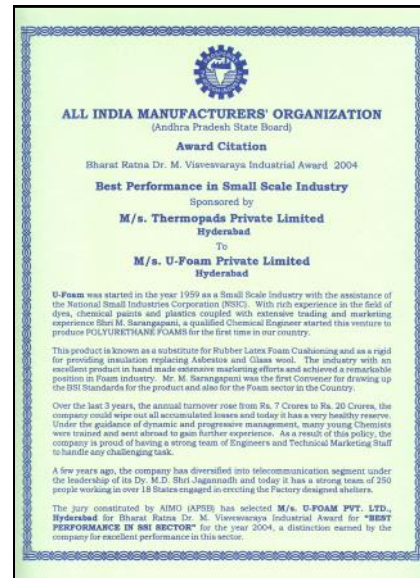


Prefabricated Homes



Porta Cabins Homes & Offices

## Certificates, Citations and Awards



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Authorised Distributor