PUF Porta Cabin

Thermally insulated porta cabin using factory-made PUF sandwich wall and roof panels on an independently engineered MS transport and lifting chassis. The standard planning build uses 50 mm wall panels and 60 to 80 mm roof panels with pre-coated GI or GL facings, sealed interlocking joints and factory-planned service openings.

REFERENCE CONFIGURATION	COST ESTIMATION INPUT	PUBLISHED SIZES	SPECIFICATION PROFILE
20 x 10 x 8.5 ft	**INR 1,225 per sq.ft.**	**6 workbook-controlled configurations**	**19 product-specific + 11 platform-common lines**

Document control

Field	Value
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Technical reviewer	**PENDING. Not yet assigned. This document is not technically approved.**
SEO / editorial reviewer	PENDING
Status	**Issued for review. Supersedes SP-PC-PUF-08-TS-R1, which omitted the construction control line and the reviewer status field.**

What this document is for

Use it to check the build against your own requirement, to size the cabin, to see the published price basis and to assemble a complete enquiry. It is a selection guide, not a construction document and not a performance certificate.

Typical selection contexts

Thermally insulated site offices	Occupied rooms in hot climates
Fast factory-finished modular space	Projects requiring a sandwich-panel enclosure

Limits stated up front

Fire. Fire resistance cannot be inferred from PUF thickness. Where a project requires a non-combustible core, a tested mineral-wool panel system replaces PUF, and that is a different build with a different specification.

Thermal data. Panel brand, skin BMT, core density, thermal conductivity and fire classification are purchase-order items, confirmed by the panel supplier's certificate against the system actually purchased. No such figure is stated in this document.

Structure. The chassis carries the building. Panels close, insulate and finish it. Panel fasteners are never a substitute for structural connections.

1. Steel structure

Component	Material or type	Section, size or thickness	Detail
Bottom frame	Standard MS primary chassis	100 x 50 x 3 mm MS C-channel reference	PUF panels are enclosure components. The transport and lifting chassis remains structural steel, sized independently for cabin loads and handling.
Bottom stiffeners	MS base stiffeners	100 x 50 / 75 x 40 channel and square pipe as engineered	Stiffeners support floor loads and panel perimeter rails. Panel fasteners are not substitutes for the structural chassis.
Floor frame	Floor support frame	MS cross-grid with 18 mm cement-bonded or Bison board	The grid is isolated from external water ingress and supports a rigid finish-ready floor. Higher loads may require 24 mm board or steel deck.
Top frame	Panel-support top perimeter	50 x 50 x 1.6 mm MS SHS reference	Provides straight, level support for wall panel heads and the roof system. Final section and spacing follow span and handling design.
Roof stiffeners	Insulated roof support frame	50 x 50 x 1.2 mm or engineered members as panel span requires	Coordinated with the chosen sandwich panel's allowable span, fixings, overhang, drainage and service loads.
Corner posts and walls	Panel-support wall frame	50 x 50 x 2 mm MS SHS reference, framed openings reinforced	Wall framing supports panel joints and door and window cassettes. Large openings require local reinforcement without crushing or cutting the core.
Lifting and handling	Approved handling provision	Engineered lifting and support points	The completed module is moved only to the approved lifting, support and transport drawing.
Welding and fabrication	Fabrication control	Welded and bolted connections to approved shop drawings	Qualified welding and bolting, deburred safe edges, dimensional inspection, protected cut edges. Panels close only after frame inspection.

2. Walls, roof, floor and insulation

Component	Material or type	Section, size or thickness	Detail
Exterior walls	PUF insulated wall sandwich panel	50 mm default, 80 mm higher-insulation option, 0.5-0.8 mm pre-coated GI or GL facings	Final skin BMT, core density, panel thickness and joint profile are stated in the purchase order.
Roof	PUF or PIR insulated roof panel	60-80 mm default range, profiled outer skin with finished inner liner	One element gives weather skin, insulation and finished underside. Fixing pattern, end laps, ridge and eave flashings, sealants and drainage follow the panel supplier system.
Interior walls	Factory-finished inner wall face	Inner PPGI or GI panel facing, no separate MDF lining in the standard build	The panel inner face is the finished wall surface unless a decorative or hygienic lining is separately ordered. Services use planned chases and raceways.
Ceiling	Insulated roof underside or optional service ceiling	Exposed inner panel liner, or lightweight service ceiling below	A false ceiling creates a service void without replacing the roof panel's thermal function. Vapour and condensation control remains continuous.
Floor base	Rigid floor base	18 mm cement-bonded or Bison board, 24 mm option for higher duty	Mechanically fixed to the chassis grid and sealed at edges. Wet or heavy-duty uses receive a separately specified substrate and waterproofing system.
Floor finish	Standard resilient floor finish	1.5-2.0 mm commercial vinyl, optional SPC or epoxy by use	Independent of wall panel thickness. Fit-out packages remain separate from the base cabin price.
Wall insulation	PUF wall thermal core	50 mm standard planning thickness, 80 mm option, density and thermal data by supplier certificate	Do not infer fire resistance from PUF thickness alone. Projects requiring a non-combustible core should select a tested mineral-wool panel system instead.
Roof insulation	PUF or PIR roof thermal core	60-80 mm planning range, supplier-certified density and thermal data	Thickness is selected for heat gain, span and condensation requirements. Supplier structural and thermal data governs allowable spans and fastener spacing.

Component	Material or type	Section, size or thickness	Detail
Decorative and external finish	Coating and facade finish	Project-selected colour and compatible coating system	Substrate preparation, compatibility, touch-up and exposure-category maintenance are confirmed in the approved finish schedule.
Fasteners and sealing	Approved joints and seals	Corrosion-compatible fasteners, EPDM, butyl or approved sealants	Fasteners, sealants and flashings at panel joints, corners, roof laps and penetrations. No unsealed field cut is accepted.

3. Doors, windows, electrical and services

Component	Material or type	Section, size or thickness	Detail
Main and service door	Insulated door assembly	PUF-panel or insulated MS door with sealed perimeter	Leaf and frame are selected to reduce thermal bridging and air leakage. Hardware and threshold remain suitable for transport and repeated use.
Windows and service opening	Sealed aluminium window assembly	Powder-coated aluminium with 4-5 mm glass or upgraded glazing, perimeter sealed	Frames are flashed and sealed into the insulated panel without leaving exposed core. Larger glazing requires a framed structural opening.
Grills and mosquito mesh	Opening protection	Grill, mesh, guard or louver as scheduled	Provided only where the approved opening schedule and intended use require it.
Electrical wiring	Copper wiring and containment	1.5 / 2.5 / 4 sq.mm copper starting schedule, final by load	Concealed or protected copper wiring, typically 1.5 sq.mm lighting, 2.5 sq.mm sockets, 4 sq.mm higher-load or AC circuits, subject to the final load schedule and approved electrical drawing.
Electrical protection	DB, MCB, RCCB and earthing	Segregated protected circuits to approved electrical drawing	Distribution board with MCB and RCCB protection, earthing, and segregation of lighting, socket, wet-area and AC circuits.
Electrical fittings	Lights, sockets and equipment points	LED lights, modular switches, 6A and 16A sockets, fan and AC provision	Coordinated with the approved layout. Final quantities and equipment loads are quotation-specific.
Ventilation and AC	Condensation-aware ventilation or AC	Natural ventilation or AC with controlled condensate	Ventilation strategy is chosen for occupancy and climate. AC sleeves and drains are factory planned so insulation and vapour sealing are restored around penetrations.
Plumbing and sanitary	Optional plumbing in insulated panels	Factory-planned sleeves and chases, penetrations sealed, core protected	Plumbing is optional. Pipes are not routed by cutting large unprotected channels through PUF panels. Service zones and removable covers are planned before manufacture.
Layout and configuration	Interlocking insulated-panel cabin	Factory-cut panels, interlocking joints, butyl or approved sealants and flashings	Precision interlocking and joint sealing limit air gaps and thermal bridges. The purchase order must identify the selected panel system.
Painting and coating	Corrosion-protection system	Substrate-appropriate corrosion protection and touch-up	Prepared MS receives the approved primer and topcoat system. Galvanized or coated steel receives compatible cut-edge and damage repair plus touch-up where specified.
Quality checks	Inspection and testing	Pre-dispatch dimensional, enclosure, service and functional QA	Covers dimensions, member and panel identification, connections, coating, roof drainage, weather sealing, doors, windows, electrical continuity and functional checks.
Warranty	Commercially confirmed warranty	Final quotation governs warranty scope and exclusions	5-year structural warranty and 1-year finishing warranty as standard, finishing extendable to 2 years on request, confirmed at quotation.

4. Published sizes and budgetary prices

All six rates derive from the Cost Estimation Input of INR 1,225 per sq.ft. at the 200 sq.ft. reference, adjusted by the workbook's area bands. Prices exclude GST unless stated.

Spec ID	Size code	Published size	Area	Rate / sq.ft.	Price ex-GST	With 18% GST
PC-PUF-08	**SZ-01**	**10 x 10 x 8.5 ft**	100 sq.ft.	INR 1,408.75	**INR 1,40,875**	INR 1,66,233
PC-PUF-08	**SZ-02**	**20 x 8 x 8.5 ft**	160 sq.ft.	INR 1,347.50	**INR 2,15,600**	INR 2,54,408
PC-PUF-08	**SZ-03**	**20 x 10 x 8.5 ft**	200 sq.ft.	INR 1,225.00	**INR 2,45,000**	INR 2,89,100
PC-PUF-08	**SZ-04**	**20 x 12 x 8.5 ft**	240 sq.ft.	INR 1,176.00	**INR 2,82,240**	INR 3,33,043
PC-PUF-08	**SZ-05**	**30 x 10 x 8.5 ft**	300 sq.ft.	INR 1,176.00	**INR 3,52,800**	INR 4,16,304
PC-PUF-08	**SZ-06**	**40 x 10 x 8.5 ft**	400 sq.ft.	INR 1,163.75	**INR 4,65,500**	INR 5,49,290

Costing status: derived planning estimate, panel system confirmed at quotation. GST 18%, HSN 9406. Rate falls as footprint grows because the envelope, openings and services scale with perimeter rather than with floor area.

5. Scope boundary

Scope	Included in this specification
STANDARD	MS chassis and framing to the reference sections, 50 mm PUF wall panels, 60 to 80 mm PUF or PIR roof panel, factory-finished inner faces, 18 mm cement-bonded floor base with 1.5 to 2.0 mm commercial vinyl, insulated door assembly, sealed aluminium windows, lighting, sockets, DB with MCB and RCCB, earthing, pre-dispatch QA.
OPTIONAL	80 mm wall panel, 24 mm floor base, SPC or epoxy floor finish, decorative or hygienic inner lining, service ceiling below the insulated roof, upgraded glazing, grills, mesh, guards or louvers, air-conditioning provision, plumbing with planned sleeves.
CUSTOM	Non-standard footprints, framed structural openings, partitioned layouts, project-selected colour and coating system, client-nominated panel system.
EXCLUDED	Interior fit-out and furniture, transport and installation, foundations, offloading and craneage, project-specific engineering, performance testing and certification, GST.

6. Quotation inputs

A quotation moves faster when these are settled at enquiry.

Input	Why it changes the quotation
Footprint and quantity	Sets the rate band, the freight vehicle and whether modules link.
Wall panel thickness	50 mm standard or 80 mm option. Roof at 60 mm or 80 mm.
Panel system or brand	Either nominated by you, or proposed by us and named in the purchase order.
Opening schedule	Door type and position, window sizes and positions, any framed structural opening.
Service requirements	Lighting and socket layout, AC provision and sleeve positions, plumbing scope.
Floor duty	Confirms 18 mm or 24 mm base and the finish.
Site access and delivery	Approach width, offloading arrangement and delivery location for freight.
Colour and deployment	Coating system, and whether the cabin is short deployment or semi-permanent.

7. Company facts

Manufacturer	SAMAN POS India Private Limited, brand SAMAN Portable. Manufacturer, not reseller.
Facilities	Bengaluru (Unit 1, South) and Greater Noida (Unit 2, North)
Delivery	7 to 21 working days. Fixed-price quote in 48 hours.
Warranty	5-year structural warranty and 1-year finishing warranty as standard; finishing extendable to 2 years on request, confirmed at quotation.

Manufacturer	SAMAN POS India Private Limited, brand SAMAN Portable. Manufacturer, not reseller.
Service life	20 to 25 years under proper use and maintenance. This is not a warranty period.
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