



TECHNICAL SPECIFICATION | MATERIALS | SIZES | BUDGETARY PRICES

Knock-Down Porta Cabin

Comprehensive product specification for procurement, design coordination and quotation review

Product overview

Demountable flat-pack porta cabin using numbered bolted base and top rails, corner posts, floor and roof cassettes and factory-finished insulated wall panels. Gaskets, flashings, fasteners and service modules are designed for planned assembly and disassembly without routine site welding or destructive panel cutting. Reuse is conditional on inspection of holes, bolts, seals and panels after each cycle.

REFERENCE CONFIGURATION

20x10x8.5 ft

COST ESTIMATION INPUT

INR 1,280 / sq.ft.

PUBLISHED SIZE OPTIONS

6 workbook-controlled configurations

SPECIFICATION PROFILE

19 product-specific + 11 platform-common lines

TYPICAL SELECTION CONTEXTS

- Access-constrained project sites
- Flat-pack transport and remote assembly
- Demountable temporary facilities
- Projects planning future disassembly and reuse

Costing status: Planning estimate: assembly quote required



Official product page

Scan or open the link for enquiries and current web content.

[Open product page](#)

Important

Document control: This PDF is a product specification and budgetary selection guide generated from the controlled technical workbook. It does not replace the approved project drawing, structural design, bill of materials, performance certificate or final commercial quotation.

Document ID: SP-PC-KD-10-TS-R1 | Rev 1 | 14 August 2026

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Specification overview

Demountable flat-pack porta cabin using numbered bolted base and top rails, corner posts, floor and roof cassettes and factory-finished insulated wall panels. Gaskets, flashings, fasteners and service modules are designed for planned assembly and disassembly without routine site welding or destructive panel cutting. Reuse is conditional on inspection of holes, bolts, seals and panels after each cycle.

At-a-glance build profile

BOTTOM FRAME 100x50x3 mm channel segments reference with engineered splice plates/bolts	EXTERIOR WALLS 50 mm PUF/PIR or mineral-wool sandwich panels with 0.5-0.8 mm pre-coated GI/GL facings typical
ROOF 60-80 mm insulated roof panels with removable flashings and sealed fasteners	FLOOR BASE 18 mm cement-bonded board panels; 24 mm option for higher duty
WALL INSULATION 50 mm PUF/PIR or mineral wool according to panel selection	ROOF INSULATION 60-80 mm PUF/PIR or mineral wool according to roof panel
MAIN DOOR / SERVICE DOOR Pre-hung door/frame cassette mechanically fixed to structural opening	LAYOUT / CONFIGURATION Numbered members, panel schedule, gasket set, fastener schedule and assembly/torque sequence

Selection and scope control

CHOOSE THIS PRODUCT WHEN - Access-constrained project sites - Flat-pack transport and remote assembly - Demountable temporary facilities - Projects planning future disassembly and reuse	CONFIRM BEFORE ORDER - Module and panel numbering schedule - Bolted splice and torque requirements - Gasket, flashing and fastener kit - Assembly labour, tools and inspection plan
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How to use this PDF

- Use the reference specification to compare quotations line by line, not only by total price.
- Freeze product-specific options in the approved drawing, bill of materials and quotation before manufacture.
- Verify project-controlled performance claims against the exact selected assembly, certificates and test evidence.
- Treat published prices as workbook-controlled budget estimates; final scope, taxes, transport and site conditions govern the order value.

Scope boundaries

Included in this technical document: structural framework, enclosure, insulation, floor, openings, electrical and services baseline, six published size options, budgetary price schedule, adjustment rules, project coordination, QA and FAQs.

Not automatically included in the budget: interior fit-out, optional add-ons, transport and installation, foundations, and project-specific engineering or testing unless the quotation states otherwise.

Technical specification: Steel Structure

The table preserves the controlled workbook specification. "Product-specific" rows define this product variant; "platform-common" rows are shared controls that still require confirmation in the approved project documents.

Component / scope	Baseline specification	Detailed design and coordination notes
Bottom frame Product-Specific	100x50x3 mm channel segments reference with engineered splice plates/bolts	Flat-pack demountable build - Base rails break into transportable lengths and reassemble through designed splice nodes. Bolt size/grade, hole tolerance, bearing and slip requirements are connection-design items and must be documented.
Bottom stiffeners Product-Specific	75x40 / 50x50 structural members with bolted cleats as engineered	Flat-pack demountable build - Cross-members are numbered and bolted to base rails so the floor cassette can be removed without destructive cutting. Connection access remains available for inspection and re-tightening.
Floor frame Product-Specific	50x50x2 mm frame reference + 18 mm cement-bonded board panels	Flat-pack demountable build - Floor is divided into replaceable cassettes/panels sized for handling. Joint strips keep the walking surface continuous while allowing future disassembly.
Top frame Product-Specific	50x50x1.6 mm SHS/formed rail reference with demountable corner nodes	Flat-pack demountable build - Top rails connect to corner posts with repeatable bolted nodes. Assembly sequence and temporary bracing are provided so the frame is stable before panels close it.
Roof stiffeners Product-Specific	50x50x1.6 / engineered secondary members with bolted splice details	Flat-pack demountable build - Roof frame is assembled in numbered modules and receives removable flashings/seals. No site welding should be needed for routine planned assembly unless specifically stated.
Corner posts / walls Product-Specific	50x50x2 mm SHS reference with bolted corner plates and replaceable opening frames	Flat-pack demountable build - Posts, door frames and window cassettes are mechanically connected for replacement/reuse. Structural nodes, not wall panels, carry the primary frame actions.
Lifting / handling Platform Common	Engineered lifting / support points	Provide engineered lifting or handling points and support locations for each transportable module; move the completed module only to the approved lifting, support and transport drawing.
Welding & fabrication Platform Common	Welded and/or bolted connections to approved shop drawings	Fabricate structural-steel connections by qualified welding and/or bolting to approved shop drawings; deburr safe edges, inspect dimensions, protect cut edges and close panels only after frame inspection.

Technical specification: Walls, Roof, Floor & Insulation

The table preserves the controlled workbook specification. "Product-specific" rows define this product variant; "platform-common" rows are shared controls that still require confirmation in the approved project documents.

Component / scope	Baseline specification	Detailed design and coordination notes
Exterior walls Product-Specific	50 mm PUF/PIR or mineral-wool sandwich panels with 0.5-0.8 mm pre-coated GI/GL facings typical	Flat-pack demountable build - Panels use repeatable mechanical joints and replaceable seals. Core type is selected by thermal/fire requirement; mineral wool is used where non-combustible construction is required.
Roof Product-Specific	60-80 mm insulated roof panels with removable flashings and sealed fasteners	Flat-pack demountable build - Roof panels and flashings are sequenced for disassembly without damaging hidden joints. Fastener locations are standardized and documented.
Interior walls Product-Specific	Pre-coated metal inner skin; optional removable decorative liner	Flat-pack demountable build - A factory-finished sandwich-panel face reduces fragile interior layers during repeated assembly. Decorative lining, if ordered, is clipped/screwed in removable modules.
Ceiling Product-Specific	Finished inner roof-panel face or modular service ceiling	Flat-pack demountable build - Service ceiling panels remain accessible to wiring and connectors. Any additional ceiling is designed for repeated removal rather than wet jointing.
Floor base Product-Specific	18 mm cement-bonded board panels; 24 mm option for higher duty	Flat-pack demountable build - Replaceable floor boards are mechanically fastened to numbered cassettes. Wet-area variants require separate waterproofing that can be renewed at reassembly.
Floor finish Product-Specific	1.5-2.0 mm commercial vinyl with removable threshold/joint trims	Flat-pack demountable build - Floor finish is detailed so module joints can be opened without destroying the entire finish; premium finishes are optional fit-out.
Wall insulation Product-Specific	50 mm PUF/PIR or mineral wool according to panel selection	Flat-pack demountable build - Insulation is encapsulated within panels so site assembly does not depend on loose infill. Damaged panels or seals are replaced before reuse.
Roof insulation Product-Specific	60-80 mm PUF/PIR or mineral wool according to roof panel	Flat-pack demountable build - Roof core remains factory bonded to facings; thickness is chosen for thermal/fire target and panel span.
Decorative / external finish Platform Common	Project-selected colour and compatible coating system	Final colour and coating system are project-selected; substrate preparation, compatibility, touch-up and exposure-category maintenance are confirmed in the approved finish schedule.
Fasteners & sealing Platform Common	Corrosion-compatible fasteners, EPDM / butyl / approved sealants	Use corrosion-compatible mechanical fasteners, EPDM/butyl or approved sealants and flashings at panel joints, corners, roof laps and penetrations; no unsealed field cuts are accepted.

Technical specification: Doors, Windows, Electrical & Services

The table preserves the controlled workbook specification. "Product-specific" rows define this product variant; "platform-common" rows are shared controls that still require confirmation in the approved project documents.

Component / scope	Baseline specification	Detailed design and coordination notes
Main door / service door Product-Specific	Pre-hung door/frame cassette mechanically fixed to structural opening	Flat-pack demountable build - Door cassette is removed as a unit for transport/replacement. Threshold, canopy and perimeter gaskets are standardized components in the assembly kit.
Windows / service opening Product-Specific	Pre-glazed aluminium window cassette with replaceable perimeter gasket	Flat-pack demountable build - Window cassettes mount to framed openings without uncontrolled panel cutting. Reassembly includes gasket inspection and water-seal check.
Grills / mosquito mesh Platform Common	Grill / mosquito mesh / guard / louver as scheduled	Security grill, mosquito mesh, guard or louver is provided only where the approved opening schedule and intended use require it.
Electrical wiring Platform Common	1.5 / 2.5 / 4 sq.mm copper starting schedule; final by load	Concealed or protected copper wiring is typically 1.5 sq.mm for lighting, 2.5 sq.mm for sockets and 4 sq.mm for higher-load or AC circuits, subject to the final load schedule and approved electrical drawing.
Electrical protection Platform Common	Segregated protected circuits to approved electrical drawing	Provide a distribution board with MCB/RCCB protection, earthing and segregation of lighting, socket, wet-area and AC circuits according to the approved electrical drawing.
Electrical fittings Platform Common	LED lights, modular switches, 6A/16A sockets, fan / AC provision	LED lights, modular switches, 6A/16A sockets, fan points and AC provision are coordinated with the approved layout; final quantities and equipment loads are quotation-specific.
Ventilation / AC Product-Specific	Bolt-on louver/exhaust/AC service panels; factory-planned cut-outs	Flat-pack demountable build - Ventilation penetrations are concentrated in replaceable service panels. Major field cuts in sandwich panels are avoided to preserve reuse and sealing.
Plumbing / sanitary Product-Specific	Factory-planned service panel, union/quick-connect interfaces and removable pipe supports	Flat-pack demountable build - Plumbing is optional; where specified, connections and traps are accessible for draining before disassembly. Wet panels are inspected before repacking.
Layout / configuration Product-Specific	Numbered members, panel schedule, gasket set, fastener schedule and assembly/torque sequence	Flat-pack demountable build - The cabin is supplied as an engineered kit for site assembly/disassembly. Reuse is conditional on inspection of members, holes, fasteners, panels and seals; damaged components are replaced rather than forced back into tolerance.
Painting / coating Platform Common	Substrate-appropriate corrosion protection and touch-up	Corrosion protection is matched to substrate and exposure: prepared MS receives the approved primer/topcoat system, while galvanized/coated steel receives compatible cut-edge and damage repair plus coating touch-up where specified.
Quality checks Platform Common	Pre-dispatch dimensional, enclosure, service and functional QA	Pre-dispatch QA covers dimensions, member/panel identification, connections, coating, roof drainage, weather sealing, doors, windows, electrical continuity and functional checks; specialist performance certificates are verified where the product requires them.
Warranty Platform Common	Final quotation governs warranty scope and exclusions	Warranty period and exclusions are confirmed only in the final quotation; relocation damage, misuse, site services, consumables and unapproved alterations remain outside the agreed scope unless explicitly included.

Published sizes and budgetary pricing

The visible Cost Estimation Input control rate is INR 1,280 per sq.ft. The six published size prices below are the calculated workbook values. The costing status is: Planning estimate: assembly quote required. Cabin Price excludes GST. Final Estimated Price includes 18% GST.

Code	Published size	Area (sq.ft.)	Adjusted rate per sq.ft.	Cabin price excl. GST	Final price incl. GST
SZ-01	10x10x8.5 ft	100	INR 1,472	INR 147,200	INR 173,696
SZ-02	20x8x8.5 ft	160	INR 1,408	INR 225,280	INR 265,830
SZ-03	20x10x8.5 ft	200	INR 1,280	INR 256,000	INR 302,080
SZ-04	30x10x8.5 ft	300	INR 1,228.8	INR 368,640	INR 434,995
SZ-05	40x10x8.5 ft	400	INR 1,216	INR 486,400	INR 573,952
SZ-06	40x12x8.5 ft	480	INR 1,203.2	INR 577,536	INR 681,492

Pricing notes

Transport and installation: Quoted separately for every published size.

Price control: Quantities, openings and services scale with the approved drawing while the product technical framework remains applicable.

Commercial control: The final written quotation, approved drawing and bill of materials govern the order.

Area-band adjustment rules

The workbook applies the following non-overlapping area bands to the product Cost Estimation Input control rate. These rules are shown for transparency and must be kept synchronized with the website calculator and quotation logic.

Area band	Rate adjustment	Multiplier
100-149 sq.ft.	15% above control rate	1.15x
150-199 sq.ft.	10% above control rate	1.10x
Exactly 200 sq.ft.	No adjustment	1.00x
201-300 sq.ft.	4% below control rate	0.96x
301-400 sq.ft.	5% below control rate	0.95x
401-500 sq.ft.	6% below control rate	0.94x
501-600 sq.ft.	7% below control rate	0.93x
601-700 sq.ft.	8% below control rate	0.92x
701-800 sq.ft.	9% below control rate	0.91x
801 sq.ft. and above	10% below control rate	0.90x

Quotation scope and price controls

Use this page to reproduce the workbook calculation and compare quotations on an equivalent scope. A lower total is not directly comparable when materials, openings, insulation, services, logistics, testing or taxes differ.

Worked calculation - first published size

Calculation step	Workbook value	Control note
1. Cost Estimation Input	INR 1,280	Controlled 200 sq.ft. reference rate for this product.
2. Published size and area	10x10x8.5 ft 100 sq.ft.	Area shown in the workbook size schedule.
3. Area-band multiplier	1.15x	Applied from the non-overlapping area-band table.
4. Adjusted rate	INR 1,472	Control rate multiplied by the applicable area-band factor.
5. Cabin price excl. GST	INR 147,200	Published area multiplied by the adjusted rate.
6. GST at 18%	INR 26,496	Added to the cabin price; rounded to the nearest INR in the schedule.
7. Final estimated price	INR 173,696	Workbook-published total including 18% GST.

BUDGET EXCLUSIONS

- Interior fit-out and furniture unless explicitly included.
- Optional add-ons and equipment not shown in the approved scope.
- Transport, offloading, positioning and installation unless quoted.
- Foundations, plinths, supports, anchors and external site utilities.
- Project-specific structural engineering, fire or acoustic tests, specialist certificates and third-party approvals unless quoted.

QUOTATION COMPARISON CHECKLIST

- Match the exact product, document revision, size and area.
- Compare section sizes, sheet or panel thicknesses, insulation and floor build-up.
- Compare doors, windows, grills, ventilation, electrical and sanitary quantities.
- Confirm coatings, finishes, accessories, testing and documentation.
- Separate GST, transport, offloading, installation, foundations and site utilities.
- Record delivery programme, warranty scope, exclusions and quotation validity.

Price disclaimer

These figures are workbook-controlled budget estimates for the published technical framework. Material selection, custom dimensions, quantity, project location, access, performance requirements, taxes and market conditions can change the final quotation.

Project coordination and pre-dispatch quality

A technically complete quotation depends on the project information below. Freeze these inputs before final drawings and manufacture to reduce variations, field cutting and interface disputes.

INFORMATION REQUIRED FOR A FIRM QUOTATION

- Project location, climate or exposure condition and intended service life.
- Selected published size or custom dimensions, quantity and required delivery sequence.
- Intended use, occupancy, room layout, partitions and equipment or storage loads.
- Door, window, service opening, grill, louver and security schedule.
- Electrical supply, connected load, AC or ventilation equipment, socket and lighting schedule.
- Water, waste, sanitary, fire, acoustic or other specialist performance requirements where applicable.
- Transport route, site access, crane or unloading plan, lifting restrictions and final support locations.
- Finish colours, signage, furniture, accessories, warranty expectations and required documentation.

SITE READINESS BEFORE DELIVERY

- Prepared, level and adequately designed supports, plinth or foundations at the approved locations.
- Clear trailer and crane access, turning radius, overhead clearance and safe lifting area.
- Verified external electrical, earthing, water, waste and drainage connection points.
- Weatherproof interface details at module joints, supports, roof drainage and service penetrations.
- Permits, structural approval, fire or acoustic approvals and local authority requirements as applicable.
- Protected storage and handling plan for knock-down components or accessories delivered separately.

Pre-dispatch quality checks

Controlled QA baseline

Pre-dispatch QA covers dimensions, member/panel identification, connections, coating, roof drainage, weather sealing, doors, windows, electrical continuity and functional checks; specialist performance certificates are verified where the product requires them.

Handling, sealing and corrosion protection

Control	Requirement
Handling	Provide engineered lifting or handling points and support locations for each transportable module; move the completed module only to the approved lifting, support and transport drawing.
Joints and seals	Use corrosion-compatible mechanical fasteners, EPDM/butyl or approved sealants and flashings at panel joints, corners, roof laps and penetrations; no unsealed field cuts are accepted.
Coating and touch-up	Corrosion protection is matched to substrate and exposure: prepared MS receives the approved primer/topcoat system, while galvanized/coated steel receives compatible cut-edge and damage repair plus coating touch-up where specified.

Handover, maintenance and warranty controls

The following controls support acceptance and continued service. They are recommendations for project coordination and should be aligned with the final quotation, approved drawings, site risk assessment and any specialist manufacturer instructions.

Recommended owner inspection points

- Keep roof drainage paths, gutters and outlets clear; investigate standing water or leakage promptly.
- Inspect flashings, panel joints, sealants, fasteners, door and window perimeters and service penetrations.
- Repair coating, cut-edge or galvanized-surface damage with the compatible approved system.
- Do not add large openings, equipment supports or unapproved penetrations without design review.
- After transport or relocation, inspect frame alignment, connections, floor, panels, seals, electricals and services before use.
- Arrange electrical testing and specialist fire, acoustic, plumbing or structural inspection where the project requires it.

Recommended handover pack

Handover item	Minimum coordination record
Approved configuration	Final general arrangement, opening schedule, service layout and selected finish schedule.
Technical schedule	Final bill of materials or approved technical schedule identifying product-specific selections and approved deviations.
Quality records	Pre-dispatch inspection or acceptance record, dimensional checks and functional checks included in the agreed scope.
Electrical records	Circuit schedule, protection details and test or commissioning records where included in the electrical scope.
Specialist evidence	Fire, acoustic, structural, corrosion or material certificates only where specifically required and quoted for the exact assembly.
Care and warranty	Handling, touch-up and maintenance guidance together with the final warranty period, scope, exclusions and claim process.

Inspection triggers

Review trigger	Recommended action
At delivery / after relocation	Check supports, frame alignment, panels, roof, openings, seals, finishes, service connections and visible transit damage before occupation.
After severe weather or leakage report	Inspect roof drainage, laps, penetrations, sealants and internal signs of moisture; rectify the cause before cosmetic repairs.
Periodic site review	Review fasteners, seals, coatings, doors, windows, floor condition, electrical protection and any site-made alterations; frequency depends on exposure and use.
Before modification or new equipment	Obtain design and services review before cutting openings, adding loads, mounting equipment or changing the approved support arrangement.

Warranty control

Warranty period and exclusions are confirmed only in the final quotation; relocation damage, misuse, site services, consumables and unapproved alterations remain outside the agreed scope unless explicitly included.

Knock-Down Porta Cabin FAQs

These answers summarize the controlled workbook and highlight the decisions that must be confirmed before manufacture. They are written for procurement teams, consultants, contractors and end users comparing portable-cabin quotations.

What is the intended use of the Knock-Down Porta Cabin?

Demountable flat-pack porta cabin using numbered bolted base and top rails, corner posts, floor and roof cassettes and factory-finished insulated wall panels. Gaskets, flashings, fasteners and service modules are designed for planned assembly and disassembly without routine site welding or destructive panel cutting. Reuse is conditional on inspection of holes, bolts, seals and panels after each cycle.

What structural base is specified?

The controlled baseline states: 100x50x3 mm channel segments reference with engineered splice plates/bolts Final member sizing, spacing, connections and handling provisions remain subject to the approved drawing.

What wall, roof and insulation system is specified?

Exterior wall: 50 mm PUF/PIR or mineral-wool sandwich panels with 0.5-0.8 mm pre-coated GI/GL facings typical
Roof: 60-80 mm insulated roof panels with removable flashings and sealed fasteners Wall insulation: 50 mm PUF/PIR or mineral wool according to panel selection Roof insulation: 60-80 mm PUF/PIR or mineral wool according to roof panel

What floor construction is specified?

Floor base: 18 mm cement-bonded board panels; 24 mm option for higher duty Floor finish: 1.5-2.0 mm commercial vinyl with removable threshold/joint trims Higher loads, wet use or specialist finishes must be stated in the approved scope.

How are electrical systems controlled?

Wiring baseline: 1.5 / 2.5 / 4 sq.mm copper starting schedule; final by load Protection baseline: Segregated protected circuits to approved electrical drawing Final circuit quantities, load schedule, earthing and equipment points follow the approved electrical drawing.

Does normal assembly require site welding?

The system is designed for planned bolted assembly and disassembly without routine site welding or destructive panel cutting. Any exceptional field work must be approved.

Can the cabin be reused indefinitely without inspection?

No. Before each reuse, inspect bolt holes, plates, fasteners, gaskets, flashings, panel edges, service modules and structural members, and replace damaged components.

Which assembly documents are required?

Use numbered members and panels, connection drawings, fastener and gasket schedules, the tightening or torque sequence, service-interface details and an inspection checklist.

Is plumbing or sanitary work included?

Workbook baseline: Factory-planned service panel, union/quick-connect interfaces and removable pipe supports Only the approved quotation and service schedule establish the final inclusion.

Which size and price should a buyer rely on?

Use the six published workbook configurations in this PDF as budgetary comparisons. The Cost Estimation Input rate is INR 1,280 per sq.ft.; the final quotation governs custom scope, taxes, transport and installation.

What is excluded unless specifically quoted?

Interior fit-out, optional add-ons, transport and installation, foundations and external utilities, and project-specific engineering, tests or certificates are excluded unless the written quotation includes them.

Document control and contact

Document ID	SP-PC-KD-10-TS-R1
Document title	Knock-Down Porta Cabin - Technical Specification, Sizes and Budgetary Price Guide
Revision	Rev 1 14 August 2026
Technical source	SAMAN controlled technical and pricing workbook; 30 technical lines and six published size configurations.
Commercial basis	Cost Estimation Input control rate INR 1,280/sq.ft.; workbook area-band multipliers; 18% GST in final estimated prices.
Costing status	Planning estimate: assembly quote required
Official product page	https://www.samanportable.com/product/porta-cabins/knock-down-porta-cabin
Document owner	SAMAN Portable SAMAN POS India Private Limited



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[Open the SAMAN Portable contact page](#)

Final control note

Final drawings, engineering calculations, bill of materials, performance certificates, warranty terms, logistics scope and commercial quotation supersede this selection guide for the specific order. Do not infer a fire, acoustic, structural, corrosion or thermal performance rating unless it is stated and supported for the exact supplied assembly.