



TECHNICAL SPECIFICATION | MATERIALS | SIZES | BUDGETARY PRICES

MS Porta Cabin

Comprehensive product specification for procurement, design coordination and quotation review

Product overview

Heavy industrial mild-steel porta cabin for plant, EPC, workshop and demanding fixed-position service. The build uses a heavy chassis, 1.6 mm-class corrugated shell, moisture- and impact-tolerant fibre-cement or metal liner, 24 mm-class rigid floor and mineral-wool insulation. Openings, electrical loads and internal layout are project-controlled.

REFERENCE CONFIGURATION
20x10x8.5 ft

COST ESTIMATION INPUT
INR 1,125 / sq.ft.

PUBLISHED SIZE OPTIONS
6 workbook-controlled configurations

SPECIFICATION PROFILE
19 product-specific + 11 platform-common lines

TYPICAL SELECTION CONTEXTS

- Plant and EPC site rooms
- Workshop and maintenance support
- Industrial supervisor or control rooms
- Demanding fixed-position service

Costing status: Approved: direct Costing Sheet source



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.

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Specification overview

Heavy industrial mild-steel porta cabin for plant, EPC, workshop and demanding fixed-position service. The build uses a heavy chassis, 1.6 mm-class corrugated shell, moisture- and impact-tolerant fibre-cement or metal liner, 24 mm-class rigid floor and mineral-wool insulation. Openings, electrical loads and internal layout are project-controlled.

At-a-glance build profile

BOTTOM FRAME 100x50x3 mm MS C-channel primary base frame, ISI-standard or approved equivalent, fabricated as the load-bearing chassis.	EXTERIOR WALLS 1.6 mm corrugated MS sheet
ROOF 1.6 mm corrugated MS sheet	FLOOR BASE 24 mm cement board or heavy MS floor plate
WALL INSULATION 50-75 mm mineral wool	ROOF INSULATION 75-100 mm mineral wool
MAIN DOOR / SERVICE DOOR Heavy single or double-leaf MS door with industrial lockset	LAYOUT / CONFIGURATION Open single-room layout with furniture and partitions finalized by approved drawing.

Selection and scope control

CHOOSE THIS PRODUCT WHEN - Plant and EPC site rooms - Workshop and maintenance support - Industrial supervisor or control rooms - Demanding fixed-position service	CONFIRM BEFORE ORDER - Industrial duty and floor loading - Liner and floor-finish choice - Door/window protection - Electrical equipment load and ventilation
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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 MS C-channel primary base frame, ISI-standard or approved equivalent, fabricated as the load-bearing chassis.	MS industrial build - 100x50x3 mm MS C-channel primary base frame, ISI-standard or approved equivalent, fabricated as the load-bearing chassis.
Bottom stiffeners Product-Specific	100x50 mm C-channels, 50x50 mm MS angles, 75x40 mm channels and approved square-pipe supports, typically coordinated at about 4 ft intervals to the final...	MS industrial build - 100x50 mm C-channels, 50x50 mm MS angles, 75x40 mm channels and approved square-pipe supports, typically coordinated at about 4 ft intervals to the final floor load and lifting design.
Floor frame Product-Specific	MS base and cross-member grid supporting an 18 mm Bison/cement-fibre floor board fixed with approved self-tapping fasteners; spacing follows the final drawing and design...	MS industrial build - MS base and cross-member grid supporting an 18 mm Bison/cement-fibre floor board fixed with approved self-tapping fasteners; spacing follows the final drawing and design load.
Top frame Product-Specific	50x50x1.6 mm MS square-pipe top perimeter frame of approved make or equivalent.	MS industrial build - 50x50x1.6 mm MS square-pipe top perimeter frame of approved make or equivalent.
Roof stiffeners Product-Specific	50x50x1.2 mm MS square-pipe roof stiffeners with 50x40, 40x40, 50x25 or 25x25 mm secondary members where required by span, ceiling support and drainage slope.	MS industrial build - 50x50x1.2 mm MS square-pipe roof stiffeners with 50x40, 40x40, 50x25 or 25x25 mm secondary members where required by span, ceiling support and drainage slope.
Corner posts / walls Product-Specific	50x50x2 mm MS square-pipe corner and wall posts or approved 60x60 mm MS-angle alternative, with reinforced door and window openings and an approximately 60...	MS industrial build - 50x50x2 mm MS square-pipe corner and wall posts or approved 60x60 mm MS-angle alternative, with reinforced door and window openings and an approximately 60 mm wall cavity.
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	1.6 mm corrugated MS sheet	MS industrial build - 1.6 mm corrugated MS sheet
Roof Product-Specific	1.6 mm corrugated MS sheet	MS industrial build - 1.6 mm corrugated MS sheet
Interior walls Product-Specific	8-10 mm fibre-cement board or 0.50 mm pre-painted metal liner	MS industrial build - 8-10 mm fibre-cement board or 0.50 mm pre-painted metal liner
Ceiling Product-Specific	8 mm fibre-cement ceiling or 0.50 mm metal liner	MS industrial build - 8 mm fibre-cement ceiling or 0.50 mm metal liner
Floor base Product-Specific	24 mm cement board or heavy MS floor plate	MS industrial build - 24 mm cement board or heavy MS floor plate
Floor finish Product-Specific	2-3 mm commercial PVC, epoxy or 3 mm chequered plate	MS industrial build - 2-3 mm commercial PVC, epoxy or 3 mm chequered plate
Wall insulation Product-Specific	50-75 mm mineral wool	MS industrial build - 50-75 mm mineral wool
Roof insulation Product-Specific	75-100 mm mineral wool	MS industrial build - 75-100 mm mineral wool
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	Heavy single or double-leaf MS door with industrial lockset	MS industrial build - Heavy single or double-leaf MS door with industrial lockset
Windows / service opening Product-Specific	Reduced-size aluminium windows or louvered ventilators with 5 mm glass where used	MS industrial build - Reduced-size aluminium windows or louvered ventilators with 5 mm glass where used
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	Natural cross ventilation with fan, exhaust and AC provision as required.	MS industrial build - Natural cross ventilation with fan, exhaust and AC provision as required.
Plumbing / sanitary Product-Specific	Not included unless shown in the approved scope.	MS industrial build - Not included unless shown in the approved scope.
Layout / configuration Product-Specific	Open single-room layout with furniture and partitions finalized by approved drawing.	MS industrial build - Open single-room layout with furniture and partitions finalized by approved drawing.
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 1,125 per sq.ft. The six published size prices below are the calculated workbook values. The costing status is: Approved: direct Costing Sheet source. 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 1,293.75	INR 129,375	INR 152,663
SZ-02	20x8x8.5 ft	160	INR 1,237.5	INR 198,000	INR 233,640
SZ-03	20x10x8.5 ft	200	INR 1,125	INR 225,000	INR 265,500
SZ-04	20x12x8.5 ft	240	INR 1,080	INR 259,200	INR 305,856
SZ-05	30x10x8.5 ft	300	INR 1,080	INR 324,000	INR 382,320
SZ-06	40x10x8.5 ft	400	INR 1,068.75	INR 427,500	INR 504,450

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 1,125	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 1,293.75	Control rate multiplied by the applicable area-band factor.
5. Cabin price excl. GST	INR 129,375	Published area multiplied by the adjusted rate.
6. GST at 18%	INR 23,288	Added to the cabin price; rounded to the nearest INR in the schedule.
7. Final estimated price	INR 152,663	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.

MS 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 MS Porta Cabin?

Heavy industrial mild-steel porta cabin for plant, EPC, workshop and demanding fixed-position service. The build uses a heavy chassis, 1.6 mm-class corrugated shell, moisture- and impact-tolerant fibre-cement or metal liner, 24 mm-class rigid floor and mineral-wool insulation. Openings, electrical loads and internal layout are project-controlled.

What structural base is specified?

The controlled baseline states: 100x50x3 mm MS C-channel primary base frame, ISI-standard or approved equivalent, fabricated as the load-bearing chassis. Final member sizing, spacing, connections and handling provisions remain subject to the approved drawing.

What wall, roof and insulation system is specified?

Exterior wall: 1.6 mm corrugated MS sheet Roof: 1.6 mm corrugated MS sheet Wall insulation: 50-75 mm mineral wool Roof insulation: 75-100 mm mineral wool

What floor construction is specified?

Floor base: 24 mm cement board or heavy MS floor plate Floor finish: 2-3 mm commercial PVC, epoxy or 3 mm chequered plate 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.

How does the MS Porta Cabin differ from the standard baseline?

It uses the heavier industrial profile: 1.6 mm-class external wall and roof, fibre-cement or metal lining, a 24 mm-class floor base and thicker mineral-wool insulation.

Is this the preferred build for repeated rough relocation?

It can be handled only to the approved lifting and support drawing. For repeated crane and trailer moves with rough-service runners and tie-down zones, use the Skid-Mounted Porta Cabin specification.

Are the internal layout and equipment loads fixed?

No. Openings, partitions, electrical loads, ventilation and equipment points are finalized for the intended industrial use.

Is plumbing or sanitary work included?

Workbook baseline: Not included unless shown in the approved scope. 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 1,125 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-MS-02-TS-R1
Document title	MS 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 1,125/sq.ft.; workbook area-band multipliers; 18% GST in final estimated prices.
Costing status	Approved: direct Costing Sheet source
Official product page	https://www.samanportable.com/product/porta-cabins/ms-porta-cabin
Document owner	SAMAN Portable SAMAN POS India Private Limited



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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.