



TECHNICAL SPECIFICATION | MATERIALS | SIZES | BUDGETARY PRICES

Double Story (G+1) Porta Cabin

Comprehensive product specification for procurement, design coordination and quotation review

Product overview

Two-storey G+1 modular cabin formed from stacked factory-built modules with an engineered transfer chassis, stacking posts, inter-module connections, stair, landing and guards, anchors and storey-by-storey services. Single-storey member sizes are not automatically acceptable. Final member sizes, foundation reactions, wind and seismic stability, stair and egress design and connection details require structural and project approval.

REFERENCE CONFIGURATION

20x10 ft footprint x G+1

COST ESTIMATION INPUT

INR 1,310 / sq.ft.

PUBLISHED SIZE OPTIONS

6 workbook-controlled configurations

SPECIFICATION PROFILE

19 product-specific + 11 platform-common lines

TYPICAL SELECTION CONTEXTS

- Two-storey project offices
- High-density site facilities
- Stacked accommodation or welfare modules
- Sites where available ground footprint is constrained

Costing status: Planning estimate: structural 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.

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Specification overview

Two-storey G+1 modular cabin formed from stacked factory-built modules with an engineered transfer chassis, stacking posts, inter-module connections, stair, landing and guards, anchors and storey-by-storey services. Single-storey member sizes are not automatically acceptable. Final member sizes, foundation reactions, wind and seismic stability, stair and egress design and connection details require structural and project approval.

At-a-glance build profile

BOTTOM FRAME 150x75x5 mm MS C-channel is a reference starting section only; final by structural calculation	EXTERIOR WALLS 1.2-1.6 mm profiled MS/PPGI or engineered insulated panel system
ROOF 1.4-1.6 mm profiled sheet or insulated roof panel to approved roof design	FLOOR BASE 24 mm cement board or engineered heavy deck; upper floor independently checked
WALL INSULATION 50-75 mm mineral wool or approved sandwich-panel core	ROOF INSULATION 75-100 mm mineral wool or insulated roof panel to thermal requirement
MAIN DOOR / SERVICE DOOR Externally opening doors on occupied floors as required by approved egress plan	LAYOUT / CONFIGURATION Two factory modules/storeys with engineered inter-module nodes, stair, landing, guards and foundation/anchors

Selection and scope control

CHOOSE THIS PRODUCT WHEN - Two-storey project offices - High-density site facilities - Stacked accommodation or welfare modules - Sites where available ground footprint is constrained	CONFIRM BEFORE ORDER - Structural calculations and reactions - Foundation and anchorage design - Stair, landing, guard and egress arrangement - Wind, seismic and inter-module connection design
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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	150x75x5 mm MS C-channel is a reference starting section only; final by structural calculation	G+1 stacked modular build - The ground-floor chassis transfers both storeys into foundations/supports. The reference heavy channel is not a universal design: final sections, support reactions, anchorage and allowable transport/lifting configuration require project structural calculations.
Bottom stiffeners Product-Specific	100x50x3 mm channel/RHS reference at support and stacking lines; final by design	G+1 stacked modular build - Base stiffeners and transfer members align with upper-module stacking posts. Local reinforcement is added under stairs, concentrated loads and inter-module connection nodes.
Floor frame Product-Specific	80x40x3 mm and 50x50x2.5 mm secondary steel as reference; 24 mm cement board/heavy deck	G+1 stacked modular build - The upper-floor deck is an engineered structural floor, not a standard roof converted into a floor. Deflection, vibration, live load and stair/landing reactions are checked before member release.
Top frame Product-Specific	80x40x3 mm RHS reference with reinforced stack nodes	G+1 stacked modular build - Each module has a ring beam that transfers vertical and lateral actions into the stacking posts and inter-module connections. Final connection plates, bolts/welds and tolerances are shop-drawing controlled.
Roof stiffeners Product-Specific	60x40x2.5 mm / engineered secondary members with positive roof slope	G+1 stacked modular build - Only the upper module carries the weather roof. Roof members are sized for span, roofing, maintenance/service loads and project wind actions.
Corner posts / walls Product-Specific	60x60x3 mm SHS reference only; final section and node plates by calculation	G+1 stacked modular build - Corner/stacking columns are checked for combined axial, bending, connection and handling actions. Single-storey 50x50x2 mm posts are not automatically acceptable for G+1 use.
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	1.2-1.6 mm profiled MS/PPGI or engineered insulated panel system	G+1 stacked modular build - Cladding is segmented around inter-module joints and flashings so the stacked assembly remains weather-tight without hiding structural connection access that must remain inspectable.
Roof Product-Specific	1.4-1.6 mm profiled sheet or insulated roof panel to approved roof design	G+1 stacked modular build - Roof includes positive fall, eave/drain details and sealed service penetrations. Lower-module top surfaces are treated as inter-storey construction, not exposed roof.
Interior walls Product-Specific	8-10 mm fibre-cement/MDF/metal liner selected by occupancy and fire strategy	G+1 stacked modular build - Internal lining is coordinated with vertical service routes and inter-module connection zones; wet/fire/acoustic rooms use the relevant upgraded lining rather than the dry-office baseline.
Ceiling Product-Specific	8-10 mm fibre-cement or approved board/liner system	G+1 stacked modular build - Ground-floor ceiling is coordinated with the upper-floor structure and services; top-floor ceiling is coordinated with roof insulation and ventilation.
Floor base Product-Specific	24 mm cement board or engineered heavy deck; upper floor independently checked	G+1 stacked modular build - Both floors receive level rigid substrates. Upper-floor system is checked for live load and vibration; local loads from storage/equipment require dedicated review.
Floor finish Product-Specific	2-3 mm commercial resilient flooring; stair and landing surfaces anti-slip	G+1 stacked modular build - Walking surfaces are selected for occupancy; stair nosings/landings receive slip-resistant treatment and edge protection according to the approved stair package.
Wall insulation Product-Specific	50-75 mm mineral wool or approved sandwich-panel core	G+1 stacked modular build - Insulation continuity is maintained at module joints while keeping structural connection access/serviceability. Fire and acoustic requirements can increase core thickness or change material.
Roof insulation Product-Specific	75-100 mm mineral wool or insulated roof panel to thermal requirement	G+1 stacked modular build - Top-storey roof receives the principal thermal layer; vapour and condensation control are coordinated with climate and AC use.
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	Externally opening doors on occupied floors as required by approved egress plan	G+1 stacked modular build - Door count, swing and hardware are set by occupancy and egress strategy. Upper-floor access is coordinated with the external or enclosed stair/landing system.
Windows / service opening Product-Specific	Aluminium windows or project glazing; locations coordinated with column/brace load paths	G+1 stacked modular build - Openings cannot cut stacking posts, transfer members or required bracing. Reinforcement around large openings is shown on the approved structural/shop drawings.
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	Floor-by-floor ventilation, AC and condensate routes; no uncontrolled inter-storey openings	G+1 stacked modular build - Each level receives its own ventilation/comfort strategy. Service risers and penetrations are sealed and coordinated with the structural and fire strategy.
Plumbing / sanitary Product-Specific	Stacked wet areas where practical; riser, vent, traps and isolation valves by services design	G+1 stacked modular build - Plumbing is excluded unless ordered. If included, wet areas are aligned to simplify vertical risers and drainage; floor penetrations receive waterproofing/fire/acoustic treatment as required.
Layout / configuration Product-Specific	Two factory modules/storeys with engineered inter-module nodes, stair, landing, guards and foundation/anchors	G+1 stacked modular build - Stair clear width, handrails, guards, landings, escape geometry, wind/seismic stability, foundations and anchors are project-engineered to applicable requirements. The stacked assembly is not released on generic single-storey assumptions.
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 1,310 per sq.ft. The six published size prices below are the calculated workbook values. The costing status is: Planning estimate: structural 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	20x10 footprint x G+1	400	INR 1,244.5	INR 497,800	INR 587,404
SZ-02	30x10 footprint x G+1	600	INR 1,218.3	INR 730,980	INR 862,556
SZ-03	20x20 footprint x G+1	800	INR 1,192.1	INR 953,680	INR 1,125,342
SZ-04	40x10 footprint x G+1	800	INR 1,192.1	INR 953,680	INR 1,125,342
SZ-05	40x12 footprint x G+1	960	INR 1,179	INR 1,131,840	INR 1,335,571
SZ-06	30x20 footprint x G+1	1,200	INR 1,179	INR 1,414,800	INR 1,669,464

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 1,310	Controlled 200 sq.ft. reference rate for this product.
2. Published size and area	20x10 footprint x G+1 400 sq.ft.	Area shown in the workbook size schedule.
3. Area-band multiplier	0.95x	Applied from the non-overlapping area-band table.
4. Adjusted rate	INR 1,244.5	Control rate multiplied by the applicable area-band factor.
5. Cabin price excl. GST	INR 497,800	Published area multiplied by the adjusted rate.
6. GST at 18%	INR 89,604	Added to the cabin price; rounded to the nearest INR in the schedule.
7. Final estimated price	INR 587,404	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.

Double Story (G+1) 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 Double Story (G+1) Porta Cabin?

Two-storey G+1 modular cabin formed from stacked factory-built modules with an engineered transfer chassis, stacking posts, inter-module connections, stair, landing and guards, anchors and storey-by-storey services. Single-storey member sizes are not automatically acceptable. Final member sizes, foundation reactions, wind and seismic stability, stair and egress design and connection details require structural and project approval.

What structural base is specified?

The controlled baseline states: 150x75x5 mm MS C-channel is a reference starting section only; final by structural calculation. Final member sizing, spacing, connections and handling provisions remain subject to the approved drawing.

What wall, roof and insulation system is specified?

Exterior wall: 1.2-1.6 mm profiled MS/PPGI or engineered insulated panel system. Roof: 1.4-1.6 mm profiled sheet or insulated roof panel to approved roof design. Wall insulation: 50-75 mm mineral wool or approved sandwich-panel core. Roof insulation: 75-100 mm mineral wool or insulated roof panel to thermal requirement.

What floor construction is specified?

Floor base: 24 mm cement board or engineered heavy deck; upper floor independently checked. Floor finish: 2-3 mm commercial resilient flooring; stair and landing surfaces anti-slip. 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.

Can single-storey frame sections be reused automatically for G+1?

No. The ground-floor chassis, transfer members, stacking posts, nodes and upper floor must be designed for the combined two-storey actions.

How is the published price calculated?

The workbook models the rate against total built-up floor area, not only the ground-floor footprint. Final commercial pricing remains subject to the structural scheme and approved module breakdown.

Which approvals are mandatory before manufacture?

Structural member sizing, support reactions, foundations or anchors, wind and seismic stability, inter-module connections, stair and landing design, guards and egress must be approved.

Is plumbing or sanitary work included?

Workbook baseline: Stacked wet areas where practical; riser, vent, traps and isolation valves by services design. 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 1,310 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-G1-04-TS-R1
Document title	Double Story (G+1) 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 1,310/sq.ft.; workbook area-band multipliers; 18% GST in final estimated prices.
Costing status	Planning estimate: structural quote required
Official product page	https://www.samanportable.com/product/porta-cabins/double-story-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.