

TECHNICAL SPECIFICATION | MATERIALS | SIZES | BUDGETARY PRICES

Multi-Toilet Ablution Block

Comprehensive product specification for procurement, design coordination and quotation review.

ENTRY CONFIGURATION	12x10 ft 120 sq ft
PUBLISHED SIZE OPTIONS	6 approved configurations, 120 to 800 sq ft
SPECIFICATION PROFILE	17 product-specific + 13 platform-common lines
TECHNICAL REVIEWER	PENDING - name, designation and date to be entered at technical review
SEO / EDITORIAL REVIEWER	PENDING - name and date to be entered at editorial review
DOCUMENT STATUS	DRAFT - not released until both reviewer fields above are signed

Product overview

Centralized sanitation and washing block for labour colonies, designed as a wet-service building rather than a sleeping cabin. The page focuses on waterproofing, washable surfaces, privacy partitions, fixture manifolds, floor drainage, venting, cleaning access and maintainable external utility connection points.

Costing status: Approved planning prices, 17 August 2026. Final scope, taxes, transport and site conditions govern the order value.

Important: This PDF is generated from the controlled technical workbook and review corrections. It does not replace the approved project drawing, structural design, bill of materials, performance certificate or final commercial quotation.

Specification Overview

Centralized sanitation and washing block for labour colonies, designed as a wet-service building rather than a sleeping cabin. The page focuses on waterproofing, washable surfaces, privacy partitions, fixture manifolds, floor drainage, venting, cleaning access and maintainable external utility connection points.

BOTTOM FRAME	IS 2062 or approved equivalent MS channel/RHS/formed sections; exact member sizes and support reactions from the signed structural drawing.
EXTERIOR WALLS	Nominal 50 mm PUF/PPGI panel or MS frame with moisture-resistant cement/FRP/PVC liner; all cut edges and panel bases protected from persistent wetting.
ROOF	PPGI/PPGL insulated roof with defined slope, gutters and sealed vent/exhaust penetrations; vapour/condensation treatment to project climate.
FLOOR BASE	18-24 mm cement/cement-fibre board or RCC/cementitious substrate with waterproof membrane, perimeter upstand and positive fall to trapped drains.
WALL INSULATION	Closed-cell PUF/PIR class or protected mineral-wool system behind a wet-area liner; panel cores and edges isolated from direct water exposure.
ROOF INSULATION	Insulated roof panel or approved vapour-controlled insulation with mechanically/naturally ventilated wet space.
MAIN DOOR / SERVICE DOOR	Corrosion-resistant cubicle doors/partitions plus external entrance/service door; privacy latch, ventilation gap and durable wet-area hardware.
LAYOUT / CONFIGURATION	Repeated toilet/shower/basin banks with dry entry, privacy segregation, central/service-side pipe access and cleaning circulation; accessible cubicle where the project requires it.

Selection and scope control

- 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.

Technical Diagrams

The following 16:9 diagrams are supplied as separate PNG files and embedded here for buyer explanation.

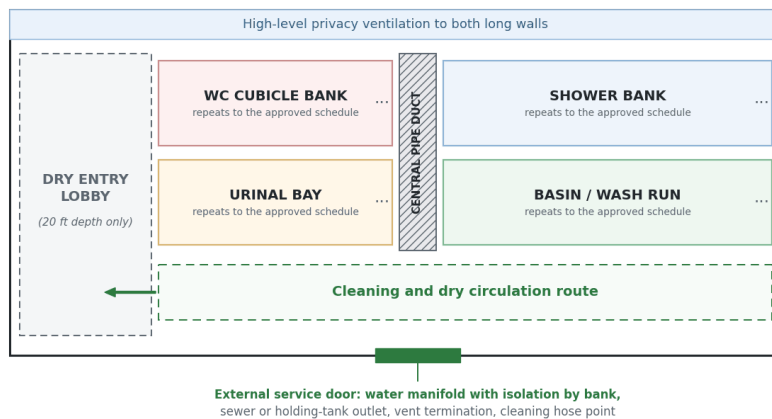
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Diagram 1: bank layout, circulation and maintenance access

SP-LC-ABL-TS-R2

Ablution Block Bank Layout



How to read this drawing

Fixture counts are not shown and are not inferred from floor area. Every bank repeats to the schedule approved for your project.

That schedule follows worker count, shift pattern, gender split, available water pressure, drainage level, the client tender and applicable site rules.

At 10 ft depth the block is single-loaded: one serviced wall, no central duct, no lobby.

At 12 ft depth two banks share the central duct and each side isolates on its own.

At 20 ft depth the dry entry lobby is added and the two sides can be separated and signed.

Legend

WC cubicle bank Urinal bay Shower bank Basin / wash run Central pipe duct Dry entry lobby

Illustrative - not for construction. Final drawing, bill of materials and written quotation govern.

Fixture schedule is fixed on the approved layout drawing before fabrication.

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S A M A N Multi-Toilet Ablution Block

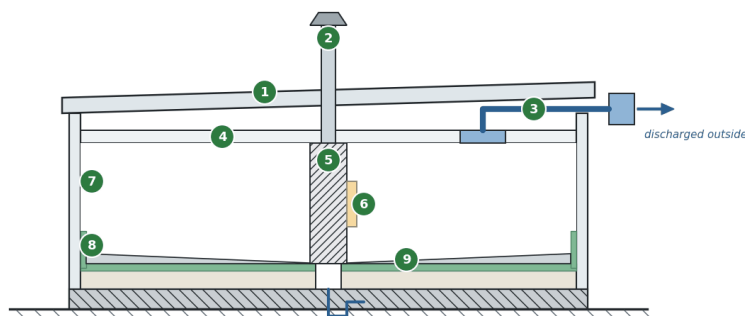
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Diagram 2: wet-service section, drainage fall and ventilation control

SP-LC-ABL-TS-R2

Wet-Service Section

Section through a 12 ft deep block. Same building as Diagram 1.



Key

- 1 Insulated PPGI/PPGL roof, defined slope, sealed penetrations
- 2 Soil vent stack terminated clear of the occupied zone
- 3 Mechanical exhaust fan and duct, discharged outside the block
- 4 Moisture-resistant ceiling with sealed penetrations
- 5 Central pipe duct: supply manifold, isolation by bank
- 6 Removable access panel keeps valves and traps serviceable
- 7 Washable wet-area wall liner with sealed corners
- 8 Waterproof membrane with perimeter upstand
- 9 Positive floor fall to a trapped drain

Roof drainage is kept separate from sanitary drainage. Humid exhaust is discharged to a suitable external location and is not trapped in the roof void.

Scope note

Water and sewage tanks, STP or septic systems, pumps, geysers, external trenching and the site connection itself are separate scope, quoted only where scheduled. Fixture counts are not shown on this section and are not inferred from floor area.

Illustrative - not for construction. Final drawing, bill of materials and written quotation govern.

Air-change values, fan sizing and drainage levels are project decisions confirmed on the approved drawing.

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Technical Specification: Steel Structure

Component / scope	Baseline specification	Detailed design and coordination notes
Bottom frame Platform Common	IS 2062 or approved equivalent MS channel/RHS/formed sections; exact member sizes and support reactions from the signed structural drawing.	The base system transfers occupied, service, transport and local equipment loads to defined pads, plinths, slab or skid contact points. Anchor position, corrosion access and allowable bearing are frozen before fabrication; no nominal member is treated as universal across hutments, sheds, wet blocks and camp modules.
Bottom stiffeners Platform Common	RHS/channel/angle stiffeners selected to the approved floor grid, partitions, bunks, wet services and lifting/relocation duty.	Stiffener spacing is coordinated with board edges, bunk posts, cubicle partitions, concentrated equipment and openings. Site cutting, member substitution and service penetrations require approval so the intended load path and corrosion protection are not lost.
Floor frame Product-Specific	Corrosion-protected MS/RHS/channel floor grid with local cross-members around WC pans, shower trays, partitions, tanks and service penetrations; slab base where site-built.	Wet-service penetrations are planned before fabrication so primary members are not cut on site. The floor grid supports cleaning water, partitions and fixture loads while keeping drain routes accessible.
Top frame Platform Common	MS RHS/channel or the documented proprietary upper rail sized for roof reactions, wall restraint and opening headers.	The upper frame closes the structural box, supports roof members and distributes wind and handling loads. Stair, canopy, stacked floor, tank, solar, exhaust or service-platform reactions are added only after project engineering.
Roof stiffeners Product-Specific	RHS/formed roof members supporting insulated PPGL roof, with framed and sealed openings for soil vent stacks, exhaust fans, water/heater or service entries where specified.	All penetrations use curbs/flashings and remain maintainable. Ceiling/roof condensation is considered because wet blocks have higher internal humidity than dormitories.
Corner posts / walls Product-Specific	MS/RHS external frame plus corrosion-resistant/light-gauge partition supports and reinforcement at manifold, fixture, door and grab-bar positions.	Partition framing is coordinated with plumbing so valves and traps remain serviceable. Accessibility supports are structural where required rather than fixed only to thin liners.
Lifting / handling Platform Common	Marked lifting lugs, corner fittings, skid points or temporary transport brackets only where shown on the signed GA and lifting drawing.	The lift plan identifies finished weight, centre of gravity, sling geometry, spreader need and support points. One-piece lifting is not assumed for site-assembled sheds or panel camps, and forklift handling is allowed only when pockets and capacity are documented.
Welding & fabrication Platform Common	IS 2062 / IS 1161 class structural steel or approved equivalent; weld sizes, bolt grades, hole tolerances and joint details as the fabrication drawings.	Fabrication checks cover fit-up, weld continuity, distortion, dimensions, bolt tightening, sharp edges and coating repair. IS 800 / project welding requirements are design references; certified WPS/PQR/NDT is supplied only when specified in the contract or QA plan.

Technical Specification: Walls, Roof, Floor & Insulation

Component / scope	Baseline specification	Detailed design and coordination notes
Exterior walls Product-Specific	Nominal 50 mm PUF/PPGI panel or MS frame with moisture-resistant cement/FRP/PVC liner; all cut edges and panel bases protected from persistent wetting.	The selected assembly is washable and resists splash/cleaning water. Absorbent board edges are not exposed at floor junctions, showers or basin backsplashes.
Roof Product-Specific	PPGI/PPGL insulated roof with defined slope, gutters and sealed vent/exhaust penetrations; vapour/condensation treatment to project climate.	Roof drainage is separate from sanitary drainage. Humid exhaust is discharged to a suitable external location and not trapped in the roof void.
Interior walls Product-Specific	FRP/PVC sheet, glazed/tiled cementitious board, prefinished metal or other washable moisture-tolerant liner with sealed corners and service access.	Materials are chosen for disinfectant/cleaning compatibility and easy replacement. Concealed pipe zones have removable access panels rather than permanently trapped valves.
Ceiling Product-Specific	FRP/PVC/cement-board or coated metal ceiling with sealed penetrations and access to exhaust, traps/valves or roof services where applicable.	The ceiling withstands humidity and supports cleaning without exposed absorbent surfaces. Exhaust layout minimizes stagnant moist pockets.
Floor base Product-Specific	18-24 mm cement/cement-fibre board or RCC/cementitious substrate with waterproof membrane, perimeter upstand and positive fall to trapped drains.	Membrane continuity is maintained around pan collars, shower outlets and wall junctions. Wet testing is completed before final finish where the construction method permits.
Floor finish Product-Specific	Safety vinyl, ceramic/porcelain anti-skid tile, FRP pan or approved wet-area finish with sealed coved/upstand edges.	Drain falls and thresholds prevent ponding into dry circulation. Grout/joints and cleaning chemistry are selected for maintainability and hygiene.
Wall insulation Product-Specific	Closed-cell PUF/PIR class or protected mineral-wool system behind a wet-area liner; panel cores and edges isolated from direct water exposure.	Thermal insulation also helps condensation control, but waterproofing is delivered by the wet-side assembly and joints rather than insulation alone.
Roof insulation Product-Specific	Insulated roof panel or approved vapour-controlled insulation with mechanically/naturally ventilated wet space.	The design manages warm humid air at roof sheets and cold surfaces. Whole-roof thermal claims require the exact assembly.
Decorative / external finish Product-Specific	Single/multiple water inlet, manifold isolation, sewer/holding-tank outlet, vent termination, cleaning hose point, external signage and service access as the approved schematic.	Water tanks, pumps, STP/septic/holding tank and buried site networks remain separate unless quoted. Gender separation and accessible facilities are included only where the approved plan requires them.
Fasteners & sealing Platform Common	Corrosion-compatible fasteners, EPDM washers, butyl/PU sealants, closures, flashing, sleeves and isolation tapes matched to the selected wall/roof/floor build-up.	Joints and penetrations are detailed to drain outward, remain cleanable and allow maintenance. Sealant is not used to hide poor laps, unsupported joints or wet-area movement; field drilling is deburred, protected and resealed.

Technical Specification: Doors, Windows, Electrical & Services

Component / scope	Baseline specification	Detailed design and coordination notes
Main door / service door Product-Specific	Corrosion-resistant cubicle doors/partitions plus external entrance/service door; privacy latch, ventilation gap and durable wet-area hardware.	Door clearances preserve cleaning and emergency assistance. Accessible cubicles use project-required clear opening and hardware rather than a generic standard.
Windows / service opening Product-Specific	High-level louvres/frosted windows plus insect protection and mechanical exhaust openings sized to the wet load and privacy requirements.	Openings avoid direct sightlines while supporting airflow. Security grilles do not block maintenance or exhaust discharge.
Grills / mosquito mesh Platform Common	Removable mosquito mesh, louvres, restrictors, privacy screens or protected MS grilles only where required by room use and the approved opening schedule.	Accessories maintain ventilation, cleaning access and emergency escape. Sleeping areas, canteens and sanitation blocks use different privacy/security treatments; grille and mesh are not assumed on every opening.
Electrical wiring Platform Common	Typical references: 1.5 sq.mm lighting, 2.5 sq.mm socket circuits and 4 sq.mm AC/high-load circuits; final cable sizing follows connected load, voltage drop and protection coordination.	FR/FRLS copper wiring is routed in approved conduit/trunking with protected metal penetrations and separation from water, waste, LPG/data and flexible module joints. Final cable size and derating are confirmed by the project electrical schedule.
Electrical protection Platform Common	Main isolator, MCB/RCBO or RCCB protection, labelled neutral/earth bars, bonding and surge protection where required by the supply/risk assessment.	Steel frame and exposed conductive parts are bonded to the tested site earth. Wet-area circuits, generator/DG/UPS changeover, fault level and external supply interface follow the approved single-line diagram; this workbook does not certify the installation.
Electrical fittings Platform Common	LED luminaires, fan points, 6A/16A sockets, exhaust points, emergency lighting and dedicated equipment outlets only in quantities shown on the approved room/electrical schedule.	Fixture density follows occupancy and function: sleeper, canteen, wet block, supervisor room and remote camp have different loads. Loose appliances, AC units, kitchen equipment, UPS/DG and data devices are excluded unless itemized.
Ventilation / AC Product-Specific	Natural high-level ventilation supplemented by exhaust fans/ducts as needed; fan quantity and airflow are sized from cubicle/shower load and room volume.	The block is kept under effective moisture removal during use. Exact air-change values and controls are project decisions, not invented by this workbook.
Plumbing / sanitary Product-Specific	CPVC/PPR cold/hot supply, uPVC soil/waste/vent, isolation by bank, WCs/urinals/basins/showers per fixture schedule, floor drains, traps and external sewer/holding-tank connection.	Fixture count is not inferred from area. Indian construction-worker provisions require sufficient, accessible sanitation, while the client tender and applicable state/site rules determine actual ratios, gender split and water/storage capacity.
Layout / configuration Product-Specific	Repeated toilet/shower/basin banks with dry entry, privacy segregation, central/service-side pipe access and cleaning circulation; accessible cubicle where the project requires it.	The final layout resolves worker headcount, shifts, gender, water pressure, drainage level, cleaning and maintenance access. It remains distinct from a single attached-toilet cabin by using a shared manifold and multi-user sanitary bank.
Painting / coating Platform Common	Prepared carbon steel with compatible primer/top coats, or galvanized/pre-painted sheet with repaired cut edges; system upgraded for coastal, industrial or wet-service exposure.	The coating schedule records preparation, product, coat sequence, colour and repair method. Skid undersides, roof drains, cut edges, wet-area thresholds and inaccessible crevices receive inspection attention because these locations govern field durability.
Quality checks Platform Common	Dimensional, member, weld/bolt, coating, panel, roof-drainage, opening, electrical and plumbing checks plus product-specific deployment or wet-test checks.	Handover evidence identifies the approved GA/BOM, material schedule, test records, photographs, punch items, lifting/service connection data and maintenance points. Fire, thermal, acoustic, structural or hygiene performance is stated only where supported by the contracted evidence.

Warranty and Contract Controls

Component / scope	Baseline specification	Detailed design and coordination notes
Warranty Platform Common	Warranty period, start date, remedy, relocation conditions, consumables and exclusions exactly as stated in the signed quotation and handover documents.	No universal warranty period is imposed by this workbook because attached and public product sources use different commercial packages. Site foundations, utilities, misuse, unauthorized alteration, poor cleaning, blocked drains, missed seal/coating maintenance and relocation damage remain excluded unless expressly covered.

Warranty period, remedy, exclusions and relocation conditions must follow the signed quotation and handover documents. No universal warranty period is imposed by this PDF.

Published Sizes and Budgetary Pricing

The approved six-size schedule is shown below. Block prices exclude GST. Final estimated prices include GST at 18 per cent.

Spec ID	Size Code	Published size	Area sq ft	Rate / sq ft	Block price ex-GST	Final price incl. 18% GST
LC-ABL-01	SZ-01	12x10 ft	120	INR 1,750	INR 2,10,000	INR 2,47,800
LC-ABL-01	SZ-02	16x10 ft	160	INR 1,700	INR 2,72,000	INR 3,20,960
LC-ABL-01	SZ-03	24x12 ft	288	INR 1,600	INR 4,60,800	INR 5,43,744
LC-ABL-01	SZ-04	30x12 ft	360	INR 1,550	INR 5,58,000	INR 6,58,440
LC-ABL-01	SZ-05	40x12 ft	480	INR 1,450	INR 6,96,000	INR 8,21,280
LC-ABL-01	SZ-06	40x20 ft	800	INR 1,350	INR 10,80,000	INR 12,74,400

Pricing notes

- Transport and installation: quoted separately for every published size.
- Quantities, openings and services scale with the approved drawing while the product technical framework remains applicable.
- The final written quotation, approved drawing and bill of materials govern the order.
- Areas above 900 sq ft are quoted as a manual project quotation.

Quotation Scope and Price Controls

How a published price is built

Each published size carries one approved price. The price covers the wet-block scope listed below at that built-up area. Taxes are shown separately at 18 per cent GST.

Worked example, entry size

Published size and area	12x10 ft 120 sq ft
Block price excl. GST	INR 2,10,000
GST at 18%	INR 37,800
Final estimated price	INR 2,47,800

Included in the published block price

- Wet-block enclosure: base frame, floor build-up with membrane and finish, walls, roof, insulation, internal partitions and doors
- Wet-area lining to walls and ceiling with sealed corners and service access
- Internal water distribution and drainage rough-in to a single defined interface
- Internal electrical: wiring in conduit, protection, lighting, fan and exhaust points to the approved schedule
- Factory quality checks, dimensional inspection, coating repair and dispatch protection

Quoted separately

- Water storage tanks, sewage or holding tanks, STP and septic systems
- Pumps, pressure sets and geysers
- Accessible fixtures and specialist ventilation beyond the approved schedule
- External trenching, buried site networks and the sewer or tank connection
- Foundations, plinths, pedestals and site levelling
- Transport, offloading, positioning and installation
- Statutory approvals and project-specific structural or performance engineering

Fixture schedule

Cubicle, shower, basin, urinal and accessible-fixture counts are not inferred from floor area. They follow the approved worker count, shift pattern, gender split, available water pressure, drainage level, the client tender and applicable site rules, and they are fixed on the approved layout drawing before fabrication.

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.

Pre-dispatch quality checks

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.

Handover, Maintenance and Warranty Controls

The following controls support acceptance and continued service. Align them 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.

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.
Care and warranty	Handling, touch-up and maintenance guidance together with final warranty period, scope, exclusions and claim process.

Multi-Toilet Ablution Block FAQs

What is the intended use of this product?

Centralized sanitation and washing block for labour colonies, designed as a wet-service building rather than a sleeping cabin. The page focuses on waterproofing, washable surfaces, privacy partitions, fixture manifolds, floor drainage, venting, cleaning access and maintainable external utility connection points.

What structural base is specified?

The structural base follows the controlled workbook baseline: IS 2062 or approved equivalent MS channel/RHS/formed sections; exact member sizes and support reactions from the signed structural drawing.. Final member sizing, support reactions and handling provisions remain subject to the signed drawing.

What wall, roof and insulation system is specified?

Exterior wall: Nominal 50 mm PUF/PPGI panel or MS frame with moisture-resistant cement/FRP/PVC liner; all cut edges and panel bases protected from persistent wetting. Roof: PPGI/PPGL insulated roof with defined slope, gutters and sealed vent/exhaust penetrations; vapour/condensation treatment to project climate. Wall insulation: Closed-cell PUF/PIR class or protected mineral-wool system behind a wet-area liner; panel cores and edges isolated from direct water exposure. Roof insulation: Insulated roof panel or approved vapour-controlled insulation with mechanically/naturally ventilated wet space.

How are electrical systems controlled?

Wiring baseline: Typical references: 1.5 sq.mm lighting, 2.5 sq.mm socket circuits and 4 sq.mm AC/high-load circuits; final cable sizing follows connected load, voltage drop and protection coordination. Protection baseline: Main isolator, MCB/RCBO or RCCB protection, labelled neutral/earth bars, bonding and surge protection where required by the supply/risk assessment. Final circuit quantities, load schedule, earthing and equipment points follow the approved electrical drawing.

How is the published price calculated?

Each published size carries one approved price, with 18 per cent GST shown separately. For the entry size, 12x10 ft gives a block price of INR 2,10,000 before GST and INR 2,47,800 including GST.

What should be confirmed before ordering?

Confirm size, layout, openings, services, utilities, transport, unloading, foundation/supports, optional items, taxes and final quotation validity.

Document Control and Contact

Document ID	SP-LC-ABL-TS-R2
Document title	Multi-Toilet Ablution Block - Technical Specification, Sizes and Budgetary Price Guide
Revision	Rev 2 17 August 2026
Technical source	SAMAN Labour Colony controlled technical and pricing workbook; 30 technical lines and six published size configurations.
Commercial basis	SAMAN approved six-size schedule, 17 August 2026; block prices exclude GST; final estimated prices include 18 per cent GST.
Costing status	Approved planning prices, 17 August 2026. Final scope, taxes, transport and site conditions govern the order value.
Technical reviewer	PENDING - name, designation and date to be entered at technical review
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Document status	DRAFT - not released until both reviewer fields above are signed
Size ladder basis	SAMAN approved six-size schedule, 120 to 800 sq ft, 17 August 2026.
Not for construction	Illustrative and budgetary only. Not for construction unless approved.
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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.