

SANGAM ISPAT

— INDIA PRIVATE LIMITED —

ENGINEERING STRENGTH FOR SUSTAINABLE INFRASTRUCTURE

CORPORATE PRODUCT CATALOGUE · 2026

SOLAR MOUNTING & INFRASTRUCTURE SOLUTIONS

SOLAR STRUCTURES | WATER TANK TOWERS | GOVERNMENT INFRASTRUCTURE PROJECTS

CREDA

JAL JEEVAN MISSION

GOVERNMENT DEPARTMENTS

EPC CONTRACTORS

SOLAR INTEGRATORS

KUSUM YOJNA

+91 9329101903 · +91 7471150940 · admin@sangamispat.in · sales@sangamispat.in

Sangam Ispat (India) Private Limited

Plot No.1-B, Sarora, Urla Industrial Area, Behind Jhabak Petrol Pump, Ring Road No.2, Raipur (Chhattisgarh)

ABOUT SANGAM ISPAT

ENGINEERING THE FOUNDATION OF SUSTAINABILITY

At Sangam Ispat, we don't just manufacture steel; we build the infrastructure for a sustainable world. Based in the heart of Raipur's industrial hub, we specialize in high-durability solar mounting structures and elevated water infrastructure engineered to withstand the test of time and nature — from residential rooftops to government rural water supply schemes executed across Chhattisgarh.

MANUFACTURING CAPABILITIES

- ✓ **Steel Fabrication** — heavy and medium structural fabrication with welded and bolted construction, gusseted joints, and base-plate assemblies.
- ✓ **Fasteners** — industrial bolts, nuts and washers, including high-tensile and galvanized variants for structural applications.
- ✓ **Solar Mounting Structures** — pre-galvanized rooftop systems in C-lip channel and strut channel sections, optimized for weight and strength.
- ✓ **Solar Water Pump Tower Structures** — hot dip galvanized elevated tank towers of 9 m and 12 m height for drinking water projects.
- ✓ **Precision Sections** — C-lip channels, strut channels, angles, and custom roll-formed profiles to drawing.

CORE STRENGTHS

QUALITY

Consistent section accuracy, controlled welding, and inspection at every stage of fabrication.

ENGINEERING

Structures manufactured to approved drawings with correct member sizing and detailing.

FABRICATION

In-house facility for cutting, punching, welding, and assembly of complete structures.

TIMELY DELIVERY

Production planning aligned to project schedules and site readiness.

GOVERNMENT PROJECT EXECUTION

Proven supply and installation experience on CREDA solar drinking water structures under rural water supply programmes in Chhattisgarh.



PRE-GALVANIZED C-LIP CHANNEL SECTIONS



PRECISION ROLL-FORMED PROFILES



STRUT CHANNEL — 41 × 41 MM

9 m / 12 m

TOWER HEIGHTS MANUFACTURED

Raipur

URLA INDUSTRIAL AREA FACILITY

PRE-GALVANIZED ROOFTOP SYSTEMS

SOLAR MOUNTING STRUCTURE DIVISION

Designed for residential and small commercial rooftop installations, Sangam mounting structures are engineered for structural stability, optimized steel usage, and long service life under Indian environmental conditions. **Engineered Strength. Long-Term Reliability. Precision Fabrication.**



3kW ROOFTOP SYSTEM		6 PANELS
Capacity: 3kW	Panels: 6	
Total Weight: 74 Kg	Material: Pre-Galvanized Steel	
MEMBER	SIZE / SECTION	QTY
Front Legs — 3 ft	C Lip Channel 80×40×15 mm, 2 mm thick	2
Rear Legs — 5 ft	C Lip Channel 80×40×15 mm, 2 mm thick	2
Rafters — 13 ft	C Lip Channel 80×40×15 mm, 2 mm thick	2
Purlins — 12.5 ft	Strut Channel 41×41 mm, 2mm thick	4
Fasteners — Bolt, Nut & Washers	12×40 mm · Galvanized / SS (as per requirement)	12

Note: Legs are properly welded with a base plate (150×150×6 mm)

5kW ROOFTOP SYSTEM		9 PANELS
Capacity: 5kW	Panels: 9	
Total Weight: 115 Kg	Material: Pre-Galvanized Steel	
MEMBER	SIZE / SECTION	QTY
Front Legs — 3 ft	C Lip Channel 80×40×15 mm, 2 mm thick	3
Rear Legs — 5 ft	C Lip Channel 80×40×15 mm, 2 mm thick	3
Rafters — 13 ft	C Lip Channel 80×40×15 mm, 2 mm thick	3
Purlins — 20 ft	Strut Channel 41×41 mm, 2mm thick	4
Fasteners — Bolt, Nut & Washers	12×40 mm · Galvanized / SS (as per requirement)	18

Note: Legs are properly welded with a base plate (150×150×6 mm)

ADVANTAGES

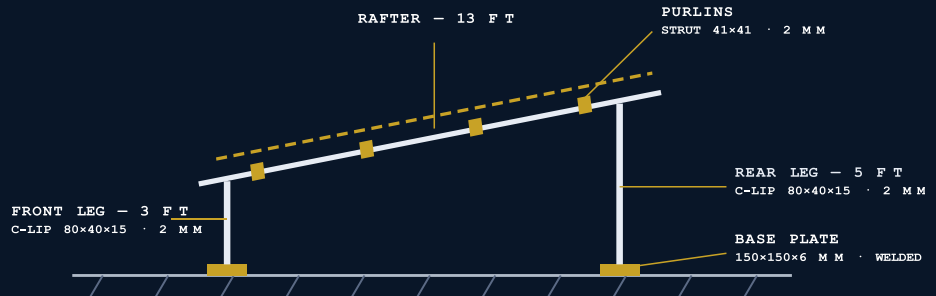
- Modular & robust design for 10+ years
- Easy on-site assembly with minimal tools
- Optimized for weight and strength
- Compatible with various panel sizes

APPLICATIONS

- Residential rooftop solar plants
- Small commercial installations

TYPICAL ROOFTOP STRUCTURE — SIDE PROFILE

MEMBER IDENTIFICATION PER BOM TABLES ABOVE. LEGS WELDED TO BASE PLATE 150×150×6 M M.





CREDA & JAL JEEVAN MISSION PROJECTS

GOVERNMENT WATER INFRASTRUCTURE SOLUTIONS

Under the **Chhattisgarh State Renewable Energy Development Agency (CREDA)** and the **Jal Jeevan Mission**, solar powered drinking water systems are bringing reliable piped water to villages across the state. At the heart of each scheme stands an elevated steel tower — carrying the water tank at height for gravity-fed distribution and the solar array that powers the pump. Sangam Ispat manufactures and delivers these towers as complete, hot dip galvanized structures built to CREDA-approved drawings.

CREDA PROJECTS

Solar drinking water pump structures fabricated to CREDA structural drawings, with specified members, gusseted bolted joints, and galvanized finish.

RURAL DRINKING WATER SYSTEMS

Village-level water supply under Jal Jeevan Mission and rural water supply schemes — engineered for low maintenance and long unattended service.

ELEVATED TANK STRUCTURES

9 m and 12 m towers supporting 5,000 to 20,000 litre tank configurations on GI-sheeted steel platforms with ladder access.

SOLAR POWERED WATER PUMPING

Integrated panel mounting arrangement at the tower top — a self-reliant system needing no grid connection at remote sites.

SOLAR ARRAY

Panels mounted at tower top generate power on site



SOLAR PUMP

Drives water from the source without grid supply



ELEVATED TANK

Storage at 9 m / 12 m height on the steel platform



GRAVITY DISTRIBUTION

Piped supply to household taps across the village

Actual Installation Executed for Government Water Infrastructure Projects in Chhattisgarh — the structures shown in this catalogue are photographs of Sangam Ispat towers installed at site under the Jal Jeevan Mission, including the 12 m structure at Gordha.

PRODUCT · GOVERNMENT WATER INFRASTRUCTURE

SOLAR DRINKING WATER PUMP STRUCTURE

900 WP · 9 METER TOWER

900 Wp

SOLAR CAPACITY

9 m

STRUCTURE HEIGHT

HDG

HOT DIP GALVANIZED

A four-legged lattice tower engineered for village drinking water schemes: the elevated platform carries the water tank for gravity-fed distribution while the integral mounting arrangement at the top supports the 900 Wp solar array powering the pump. Fully bolted, gusseted construction allows fast erection at remote sites with no site welding.

WATER TANK CAPACITY OPTIONS

5,000 L

PLATFORM 3.0 × 3.0 M

10,000 L

PLATFORM 3.0 × 5.0 M



ELEVATED TANK PLATFORM & SOLAR PANEL MOUNTING — JJM SITE INSTALLATION, CHHATTISGARH

KEY STRUCTURAL MEMBERS

MEMBER	SECTION	UNIT WEIGHT
Main Columns	SHS 91.5 × 91.5 × 4	11.4 Kg/m
Primary Bracing	ISA 65 × 65 × 5	4.9 Kg/m
Secondary Bracing	ISA 50 × 50 × 5 / ISA 40 × 40 × 5	3.0 Kg/m
Panel Support	SHS 50 × 50 × 3.2	4.5 Kg/m
Platform Beams	ISMC 75 × 40	7.14 Kg/m
Base Plates	300 × 300 × 12 mm with gusset plates	—
Platform Decking	1.2 mm thick GI sheet on L-angle grid	—
Connections	16 mm dia bolts at gusseted joints	—

As per CREDA-approved structural drawings (MCP-9M series). All dimensions in mm.

FEATURES & BENEFITS

- ✓ **Hot Dip Galvanized Steel Structure** — full-immersion zinc coating on every member for decades of corrosion protection.
- ✓ **Heavy Duty Bracing System** — X-braced panels on all four faces for rigidity and stability.
- ✓ **High Wind Resistance** — lattice geometry with low wind drag and positive bolted load paths.
- ✓ **Long Service Life** — designed for elevated water storage with minimal maintenance.
- ✓ **Ladder Access System** — safe access to platform for tank and panel maintenance.

APPLICATIONS

Jal Jeevan Mission · Rural Water Supply Schemes · Drinking Water Projects · Village Water Distribution Systems · Government Infrastructure Projects

SCOPE OF SUPPLY

Complete fabricated & hot dip galvanized bolted structure kit · Tank platform with 1.2 mm GI sheet decking · Ladder access system · Base plates with gusset plates · Structural fasteners (16 mm dia bolts) · Erection support as per project requirement

PRODUCT · GOVERNMENT WATER INFRASTRUCTURE

SOLAR DRINKING WATER PUMP STRUCTURE

1200 WP · 12 METER TOWER

1200 Wp

SOLAR CAPACITY

12 m

STRUCTURE HEIGHT

HDG

HOT DIP GALVANIZED

The 12 meter tower delivers greater head for wider village distribution networks and carries larger tank batteries on a 5.0 × 5.0 m platform. An engineered heavy duty tower design with multi-level cross bracing across the full height, it is built for government water projects where reliability over decades is non-negotiable.

WATER TANK CAPACITY OPTIONS

10,000 L

20,000 L



12 M STRUCTURE — ACTUAL JJM INSTALLATION, GORDHA (CHHATTISGARH)

KEY STRUCTURAL MEMBERS

MEMBER	SECTION	UNIT WEIGHT
Main Columns	SHS 91.5 × 91.5 × 4 (SHS 100 × 100 × 5 — 20,000 L series)	11.4 / 14.4 Kg/m
Primary Bracing	ISA 65 × 65 × 5	4.9 Kg/m
Secondary Bracing	ISA 50 × 50 × 5 / ISA 40 × 40 × 5	3.0 Kg/m
Panel Support	SHS 50 × 50 × 3.2	4.5 Kg/m
Platform Beams	ISMC 75 × 40 (ISMC 100 × 50 — 20,000 L series)	7.14 / 9.56 Kg/m
Base Plates	300 × 300 × 12 mm with gusset plates	—
Platform	5.0 × 5.0 m · 1.2 mm thick GI sheet decking	—
Connections	16 mm dia bolts at gusseted joints	—

As per CREDA-approved structural drawings (MCP-12M series). All dimensions in mm.

FEATURES & BENEFITS

- ✓ **Engineered Heavy Duty Tower Design** — splice-jointed columns with full gusset plate connections at every level.
- ✓ **Multi-Level Cross Bracing** — continuous X-bracing across the 12 m height for stiffness under tank and wind loads.
- ✓ **Corrosion Resistant** — hot dip galvanized members inside and out, including platform and ladder.
- ✓ **Long Design Life** — robust sections and protected steel for decades of unattended rural service.
- ✓ **Caged Ladder Access** — safe maintenance access to tank platform level.

APPLICATIONS

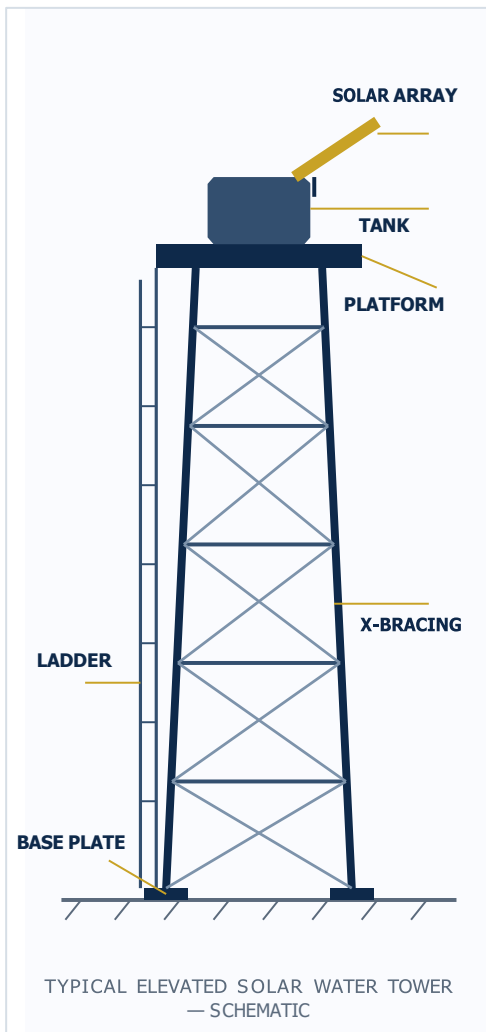
Government Water Projects · Jal Jeevan Mission · Multi-Habitation Village Schemes · Rural Water Supply · Drinking Water Infrastructure

SCOPE OF SUPPLY

Complete fabricated & hot dip galvanized bolted structure kit · Tank platform with 1.2 mm GI sheet decking · Ladder access system · Base plates with gusset plates · Structural fasteners (16 mm dia bolts) · Erection support as per project requirement

WHY OUR STRUCTURES LAST

ENGINEERING & STRUCTURAL ADVANTAGES



HOT DIP GALVANIZATION

Members are fully immersed in molten zinc, coating every surface — inside hollow sections, edges and welds — for long-term protection against rural outdoor exposure.

STRUCTURAL DESIGN STANDARDS

Towers are manufactured strictly to CREDAs-approved structural drawings, with specified sections, gusset plates, and bolt schedules followed member by member.

CORROSION RESISTANCE

Galvanized coating sacrificially protects steel even at scratches — no repainting cycles, ideal for unattended village installations.

WIND RESISTANCE

Open lattice geometry with multi-level X-bracing keeps wind drag low while bolted gusset joints provide positive load paths to the foundation.

LONG LIFE PERFORMANCE

Robust hot-rolled sections (SHS columns, ISA bracing, ISMC platform beams) sized with reserve capacity for decades of service.

PRECISION FABRICATION

Jig-controlled cutting, drilling and welding ensure bolt holes align at site — towers assemble cleanly without reaming or forcing.

QUALITY ASSURANCE

Stage-wise inspection from raw material section verification to dimensional checks of fabricated panels, galvanizing coating quality, and pre-dispatch assembly verification — documented for government project requirements.



CROSS BRACING SYSTEM — HDG STEEL FRAMEWORK



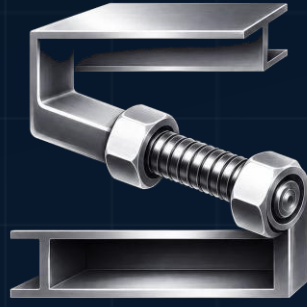
COLUMN BASE & FOUNDATION INTERFACE



PRECISION-FORMED GALVANIZED SECTIONS



STRUT CHANNEL — PANEL MOUNTING



SANGAM ISPAT

— INDIA PRIVATE LIMITED —

BUILDING INDIA'S SUSTAINABLE INFRASTRUCTURE

Thank you for considering Sangam Ispat (India) Private Limited. Every structure we manufacture reflects our dedication to quality, engineering integrity, and sustainable infrastructure development. We look forward to partnering with you on your next government, EPC, or solar project.

CONTACT

+919329101903

+91 7471150940

admin@sangamispac.in

sales@sangamispac.in

WORKS & OFFICE

Plot No.1-B, Sarora, Urla

Industrial Area, Behind Jhabak

Petrol Pump, Ring Road No.2,

Raipur (Chhattisgarh)



SCAN TO CONNECT

WEBSITE — www.sangamispac.in

"PARTNER WITH SANGAM ISPAT FOR STRUCTURALLY RELIABLE INFRASTRUCTURE SOLUTIONS"