

## Fully Integrated Steel Fabrication & Hot-Dip Galvanizing

Indo East Corporation Pvt. Ltd. (established 1975) manufactures fabricated and hot-dip galvanized steel structures from a single, self-contained complex at Jangalpur, NH-6, Howrah — 22 km from Kolkata Port. Every stage of the production cycle — raw-material receipt, design review, precision cutting, fabrication, welding, pre-treatment, galvanizing, inspection and dispatch — is handled in-house. This end-to-end integration removes sub-contractor dependency and gives complete control over quality and delivery timelines.

|               |                |                |                |      |
|---------------|----------------|----------------|----------------|------|
| ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | IEC Registered | NSIC |
|---------------|----------------|----------------|----------------|------|

### Capability at a Glance

|                       |                           |                          |                       |
|-----------------------|---------------------------|--------------------------|-----------------------|
| Fabrication capacity  | 1,000 MT / month          | Galvanizing capacity     | 1,500 MT / month      |
| Annual production     | 18,000+ MT / year         | Skilled workforce        | 180+                  |
| Galvanizing kettle    | 7.0 × 1.2 × 1.6 m (L×W×D) | Double-dip length        | Approx. 10 m          |
| Max dip load          | 3 MT                      | Max single-piece         | 5 MT (cranes to 20 T) |
| Operating temperature | 450–460 °C                | Zinc coating             | IS 2629 / ASTM A123   |
| Location              | Jangalpur, Howrah, WB     | Distance to Kolkata Port | 22 km                 |

### Key Equipment & Machinery

| Equipment / Facility          | Specification / Capacity                                               | Purpose                                                          |
|-------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------|
| Hot-Dip Galvanizing Kettle    | 7 × 1.2 × 1.6 m (L×W×D)                                                | Zinc coating of fabricated steel components                      |
| CNC Plasma Cutting Machine    | High-definition plasma, up to 50 mm                                    | Precision profile & hole cutting in steel plates                 |
| Robotic Welding Stations      | Multiple units, MIG/MAG process                                        | Automated, consistent welds for high-volume runs                 |
| Manual MIG/MAG Welders        | CO <sub>2</sub> / Argon shielded welding                               | Skilled manual welding for complex joints                        |
| Overhead EOT Cranes           | Multiple: 5 T, 10 T, 20 T                                              | Material handling across all bays                                |
| Drill Line / Radial Drill     | Multiple-spindle drill line                                            | Bolt-hole drilling per drawing specifications                    |
| Angle Drill & Punching Line   | Automated angle drill line                                             | Drilling & punching of angle sections for towers                 |
| Pre-Treatment Baths           | Degreasing, pickling (HCl), rinsing, fluxing                           | Surface preparation before galvanizing                           |
| Zinc Kettle (Furnace)         | Natural-gas fired, temp-controlled                                     | Molten zinc bath at 450 °C for immersion                         |
| Straightening & Bending Press | Hydraulic press, up to 250 T                                           | Straightening of sections & bending                              |
| Shot Blasting Machine         | Rotary-table type                                                      | Surface cleaning for painting / duplex coating                   |
| In-House Tool Room            | Tool, jig & fixture manufacturing on site                              | Custom jigs and fixtures built in-house — no outside vendor wait |
| Testing & QC Lab              | Bruker Q2 ION OES (Germany), UTM, Rockwell hardness tester, DFT gauges | Chemical, mechanical, hardness & coating verification            |

## Our 11-Step Manufacturing Process

|                                     |                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>01 Drawing &amp; BOQ Review</b>  | Client drawings, specifications and bills of materials reviewed; queries resolved before production begins.                 |
| <b>02 Raw-Material Procurement</b>  | IS 2062 / IS 8500 steel from approved mills; mill test certificates verified; material tagged to order.                     |
| <b>03 Incoming Inspection</b>       | Visual and dimensional check on incoming steel; chemical & mechanical properties verified against test certificates.        |
| <b>04 CNC Marking &amp; Cutting</b> | CNC plasma cutting for profiles and holes; angle drill line for tower leg members; precision to drawing tolerances.         |
| <b>05 Drilling &amp; Punching</b>   | Bolt holes drilled or punched to assembly drawings; tolerances checked per IS 7215 / customer specifications.               |
| <b>06 Sub-Assembly &amp; Fit-Up</b> | Components assembled in jigs for dimensional accuracy; fit-up inspected before welding commences.                           |
| <b>07 Welding</b>                   | Robotic MIG/MAG welding for repetitive joints; skilled welders for complex assemblies; WPS followed for every joint.        |
| <b>08 Weld Inspection</b>           | Visual weld inspection per IS 822; dimensional check; NDT (DP / UT) when specified by client or TPI.                        |
| <b>09 Pre-Treatment (7-Stage)</b>   | Degreasing, water rinse, acid pickling (HCl), water rinse, fluxing and drying — ready for galvanizing.                      |
| <b>10 Hot-Dip Galvanizing</b>       | Immersion in 450 °C molten zinc; the 7 m kettle handles large components; coating min. 75–85 microns per IS 2629.           |
| <b>11 Final QC &amp; Dispatch</b>   | Coating thickness measured with DFT gauge; dimensional check; assembly trial when required; marking, bundling and dispatch. |

## Sectors We Serve

|                                                                                                                                    |                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Telecom Infrastructure</b><br>Ground-based & roof-top towers, masts, monopoles, poles, antenna structures and foundation bolts. | <b>Power Infrastructure</b><br>Substation structures, transmission line towers, distribution poles and solar module mounting structures. |
| <b>Railway Infrastructure</b><br>Steel channel sleepers (Railway Board approved) and overhead electrification (OHE) structures.    | <b>Structural &amp; Industrial</b><br>Flyover girders, industrial structures, H-beam poles and heavy custom steel fabrication.           |

## Standards We Build To

Structural steel: **IS 2062 / IS 8500** · Galvanizing: **IS 2629 / ASTM A123** · Wind load: **IS 875 (Part 3)** · Tolerances: **IS 7215** · Welding: **AWS D1.1 / IS 816** · Weld inspection: **IS 822**.