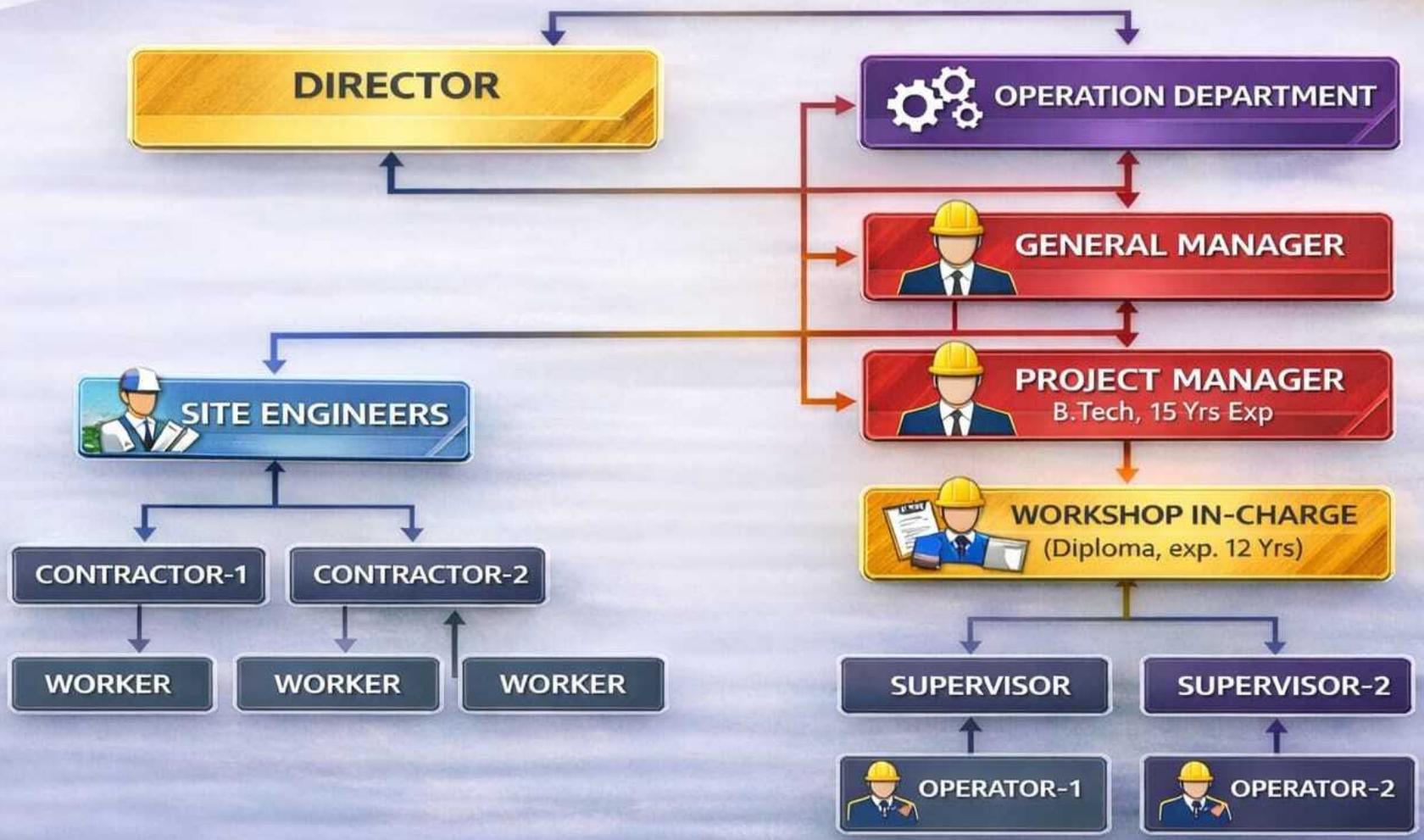


OPEPL

Odisha Prefab Engg. Pvt. Ltd.





ISO 9001-2015

ODISHA PREFAB ENGINEERING PRIVATE LIMITED

(RDSO Approved Unit)

Regd. Office : Plot No. 1687 & 1688 (P), Old Industrial Estate, Jagatpur, Cuttack- 754021, Odisha

Quality Policy

For Steel Bridge Fabrication Works:

We, at **ODISHA PREFAB ENGINEERING PRIVATE LIMITED**, are committed to delivering safe, durable, and high-performance steel bridge structures through excellence in fabrication, erection, and quality management practices.

Our **Quality Policy** is founded on the following principles:

1. Compliance with Standards

- Adhere to relevant codes, standards, and specifications including **IRC, IS, ASTM, MoRTH, RDSO**, and client requirements for bridge fabrication and erection.

2. Quality in Materials & Workmanship

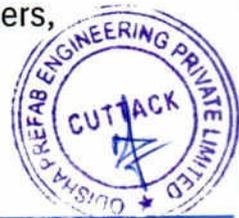
- Source raw materials only from approved suppliers and conduct rigorous testing to ensure compliance with design specifications.
- Implement precision fabrication processes including cutting, welding, drilling, and surface treatment with strict quality checks at each stage.

3. Process Control & Inspection

- Establish stage-wise **Inspection & Test Plans (ITP)** covering raw material inspection, welding procedure qualification, non-destructive testing (NDT), dimensional checks, and surface finishing.
- Ensure traceability of materials and weld consumables throughout the project lifecycle.

4. Skilled Workforce & Training

- Maintain a competent and certified workforce including qualified welders, inspectors, and engineers.



- Provide continuous training to upgrade technical skills and safety practices.

5. **Safety & Reliability**

- Follow stringent safety protocols during fabrication, handling, transportation, and erection of steel bridge components.
- Ensure reliability and durability of bridges to withstand design loads, environmental conditions, and intended lifespan.

6. **Continuous Improvement**

- Regularly monitor quality performance indicators and conduct audits.
- Implement corrective and preventive actions to enhance processes and reduce defects.

7. **Customer & Stakeholder Satisfaction**

- Deliver projects on time, within budget, and with uncompromised quality, ensuring long-term trust and satisfaction of clients, consultants, and end-users.

This Quality Policy shall be communicated to all employees, stakeholders, and subcontractors.

It will be periodically reviewed to ensure suitability to our goals and compliance with statutory and contractual requirements.

For Odisha Prefab Engineering Private Limited



Samarjeet Sahoo

(Managing Director)

Date:31-10-2025



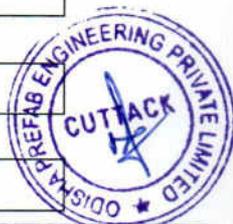
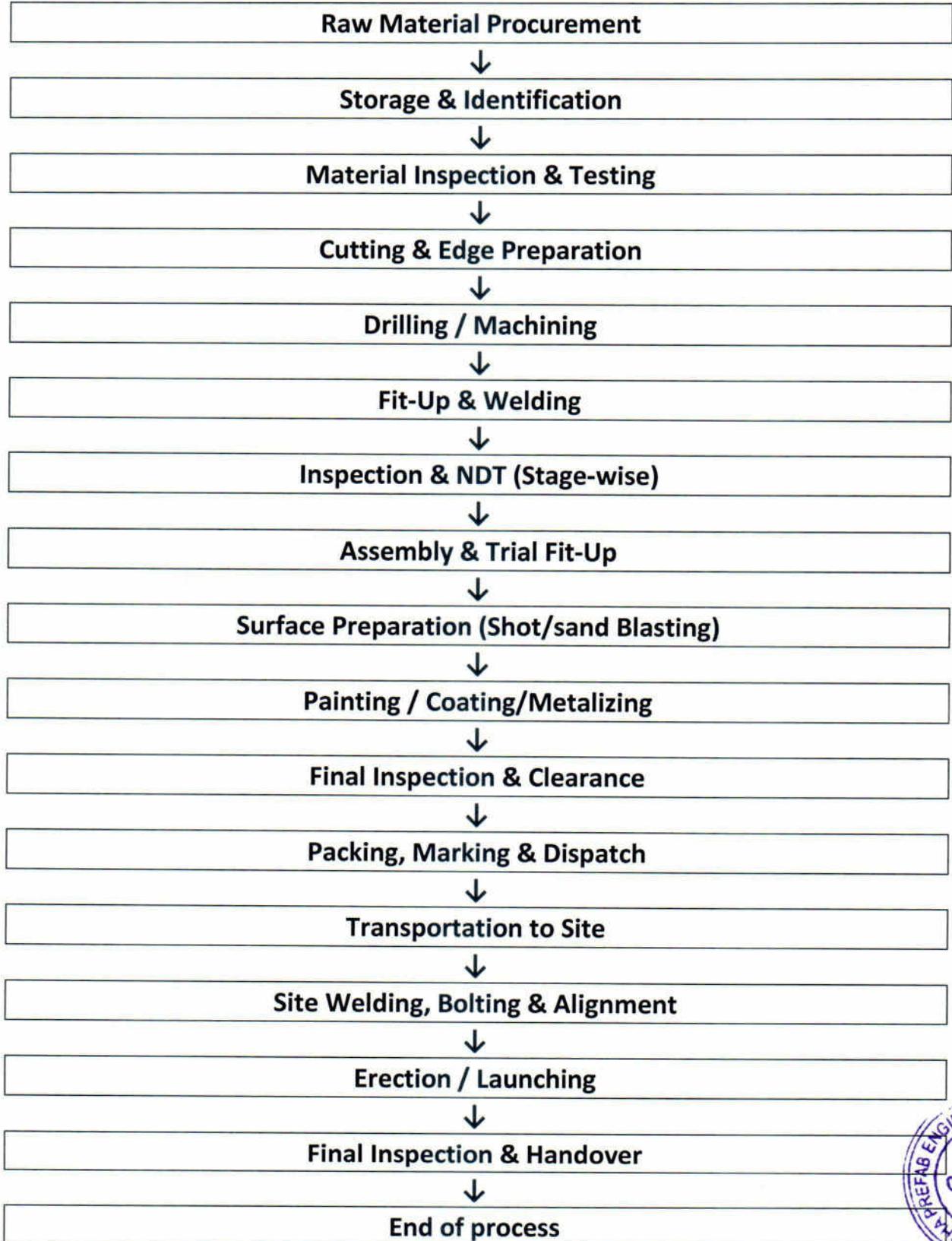
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ODISHA PREFAB ENGINEERING PRIVATE LIMITED

(RDSO Approved Unit)

Regd. Office : Plot No. 1687 & 1688 (P), Old Industrial Estate, Jagatpur, Cuttack- 754021, Odisha

PROCESS FLOW CHART



Admin Office : Plot No.2273, 2nd Floor, New Industrial Estate, Jagatpur, Cuttack-754021, Odisha

Email : odishaprefab@rcinfra.co.in, contact@odishaprefab.com, Website : www.odishaprefab.com, Ph. No. 0671-2491905

GSTN : 21AABCM2095F1ZW, CIN : U45100OR1991PTC002746



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(RDSO Approved Unit)

Regd. Office : Plot No. 1687 & 1688 (P), Old Industrial Estate, Jagatpur, Cuttack- 754021, Odisha

Risk Assessment

FOR STEEL BRIDGE FABRICATION & ERECTION WORKS

1. Objective

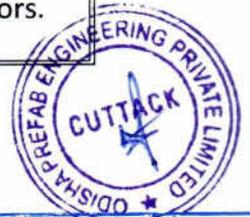
To identify, assess, and mitigate potential risks during the fabrication, handling, transportation, and erection of steel bridge structures, ensuring safety, quality, and timely completion.

2. Methodology

- **Risk Identification:** Listing all possible hazards in fabrication & erection.
- **Risk Analysis:** Evaluating the likelihood & severity of each hazard.
- **Risk Control:** Suggesting preventive & corrective measures.
- **Risk Matrix:** Low / Medium / High rating system.

3. Risk Assessment Matrix

Risk ID	Activity	Potential Hazard / Risk	Likelihood	Severity	Risk Rating	Control / Mitigation Measures
R1	Raw Material Handling	Falling plates/sections during unloading	Medium	High	High	Use cranes with certified slings, trained riggers, proper stacking.
R2	Cutting & Grinding	Fire hazard, flying sparks, injuries	Medium	Medium	Medium	Use PPE (goggles, gloves), fire extinguisher nearby, trained operators.



Risk ID	Activity	Potential Hazard / Risk	Likelihood	Severity	Risk Rating	Control / Mitigation Measures
R3	Welding	Burns, fumes inhalation, eye injury, explosion	High	High	High	WPS compliance, PPE (welding shield, gloves, aprons), fume extraction, fire watch.
R4	Drilling / Machining	Hand/finger injury, entanglement	Medium	Medium	Medium	Guarding of machines, operator training, lock-out/tag-out (LOTO).
R5	Heavy Lifting (Fabrication Shop)	Crane collapse, load swing, struck by object	Low	High	High	Lifting plan, certified cranes, load test records, signalman guidance.
R6	NDT (RT, UT)	Radiation hazard during RT	Low	High	High	Licensed operators, radiation safety officer, restricted area, PPE.
R7	Painting / Surface Treatment	Toxic fumes, fire, skin contact	Medium	Medium	Medium	Ventilation, masks, protective clothing, proper storage of paints.
R8	Transportation	Structural damage, accidents en route	Medium	High	High	Escort vehicle, secure fastening, route survey, signage.



Risk ID	Activity	Potential Hazard / Risk	Likelihood	Severity	Risk Rating	Control / Mitigation Measures
R9	Erection – Girder Launching	Collapse of structure, falling from height, dropped objects	Medium	Very High	Critical	Erection scheme approved by client, staging/scaffolding checks, safety nets, lifelines, trained riggers.
R10	Bolting / Site Welding	Bolt slippage, torque issues, welding defects	Low	Medium	Medium	Torque wrench calibration, site NDT, qualified welders.
R11	Working at Height	Falls from scaffolds, ladders, staging	Medium	Very High	Critical	Fall arrest system, full-body harness, guardrails, scaffolding inspection.
R12	Weather Conditions	High winds, rain during erection	Medium	High	High	Stop work in adverse weather, wind monitoring devices.
R13	Fire & Explosion	Welding sparks, gas cylinder leakage	Medium	High	High	Fire watch, flashback arrestors, safe storage of gas cylinders.
R14	Health & Ergonomic Risks	Noise, vibration, fatigue, musculoskeletal injury	Medium	Medium	Medium	Job rotation, ear protection, ergonomically designed tools.



Risk ID	Activity	Potential Hazard / Risk	Likelihood	Severity	Risk Rating	Control / Mitigation Measures
R15	Environmental Risks	Paint/solvent spillage, waste disposal issues	Low	Medium	Medium	Spill kits, waste segregation, disposal as per environmental norms.

4. Risk Control Strategy

- **Elimination:** Avoid unnecessary hazardous activities.
- **Substitution:** Use safer materials/processes wherever possible.
- **Engineering Controls:** Proper machine guarding, fume extraction, scaffolding.
- **Administrative Controls:** SOPs, work permits, toolbox talks, supervision.
- **PPE:** Helmets, harnesses, gloves, safety shoes, welding shields, earplugs.

5. Emergency Preparedness

- Fire extinguishers & hydrants at critical locations.
- First aid kits & trained first responders.
- Emergency evacuation plan & muster points.
- Ambulance and tie-up with nearby hospital.

6. Monitoring & Review

- Regular site safety audits.
- Daily toolbox meetings.
- Accident/near-miss reporting and investigation.
- Review of risk assessment before each new stage of work.

