Work Method Statement for Structural Steel Erection

Project Name	
Location	
Date	
Prepared By	
Approved By	

1. Description of Work

This method statement outlines the procedures and safe practices for the erection of structural steelwork, including columns, beams, and bracings, in accordance with project specifications.

2. Scope

The scope covers delivery, unloading, assembly, lifting, alignment, and bolting/welding of structural steel elements until the structure reaches stability.

3. Responsibilities

- Site Engineer: Supervise steel erection activities.
- Foreman: Direct work crew and coordinate equipment.
- Safety Officer: Implement safety measures and inspections.

4. Resources

- Personnel: Riggers, operators, fitters, welders.
- Equipment: Cranes, slings, aerial lifts, tools.
- Materials: Steel sections, bolts, plates, consumables.

5. Work Sequence

1. Verify foundation alignment and elevations.
2. Mark steel components and stage near erection area.
3. Inspect lifting equipment and accessories.
4. Lift and position columns using crane.
5. Secure columns with temporary supports.
6. Install beams, bracings, and floor girders.
7. Align and plumb structure to tolerances.
8. Install bolts and weld as per drawings.
9. Final inspection and handover.

6. Safety Precautions

- Ensure all personnel use proper PPE (helmets, gloves, harnesses).
- Barricade erection area to restrict unauthorized access.
- Check lifting equipment certification.
- Follow approved rigging and lifting plans.
- Weather conditions monitored before and during erection.

7. Inspection and Quality Control

- Check alignment and plumbness during erection.
- Verify bolted and welded connections for compliance.
- Document all inspections and approvals.

8. Attachments

- Steel Erection Drawings
- Risk Assessment & Job Hazard Analysis
- Equipment Certificates