Method Statement for Bridge Pile Driving

1. Introduction

This method statement covers the procedures and requirements for pile driving works to be carried out during the construction of the bridge project. It includes safety, equipment, sequence, quality assurance, and responsibilities.

2. Scope of Works

The work involves the installation of driven piles at designated locations and depths to provide adequate foundations for the bridge piers and abutments, as determined by the design drawings and specifications.

3. References

- Bridge Project Specifications
- Approved Drawings
- Relevant Codes and Standards
- Health and Safety Guidelines

4. Responsibilities

- Site Manager: Overall supervision and coordination
- Site Engineer: Technical oversight and quality control
- Safety Officer: Health and safety compliance
- Piling Foreman: Supervision of pile driving activities

5. Materials and Equipment

Material/Equipment	Description
Piles	Precast concrete/steel piles per drawings
Pile Driver	Hydraulic/electric hammer or drop hammer
Crane	For lifting and placing piles
Survey Equipment	Total station, levels

6. Methodology

1. Layout and survey location of all pile positions as per drawings.
2. Transport and stockpile piles near the driving locations.
3. Lift pile and set in position with crane and guide.
4. Align pile vertically and start driving using pile driver, monitoring penetration and energy applied.
5. Continue driving until design set/refusal is achieved or specified depth is reached.
6. Record every pile installation in the pile log.
7. Cut off pile heads to the specified level.
8. Remove equipment and tidy up the site.

7. Safety

- All operatives to wear appropriate PPE.
- Clear exclusion zones around pile driving operations.
- Daily equipment checks and maintenance.

- Follow lifting and handling procedures strictly.

8. Quality Assurance

- Check pile materials and dimensions before driving.
- Maintain accurate pile logs with penetration, depth, and set achieved.
- Periodic alignment checks during driving.
- Inspection and approval after completion by Engineer.

9. Attachments

- Sample Pile Log Sheet
- Relevant Drawings and Specifications