Method Statement for Bridge Expansion Joint Installation

1. Purpose

This method statement describes the sequence and control measures for the installation of bridge expansion joints to ensure quality and safety during the process.

2. Scope

This procedure applies to the installation of expansion joints for bridge deck construction at [Project Name/Location].

3. References

- Project Specifications
- Approved Drawings
- Manufacturer’s Instructions
- Relevant Standards (e.g., ASTM, BS)

4. Responsibilities

- **Project Manager:** Oversee implementation of method statement.
- **Site Engineer:** Supervise installation works.
- **Foreman & Workforce:** Execute activities as per the approved method.
- **Quality Engineer:** Monitor and record quality.
- **Safety Officer:** Enforce HSE measures.

5. Materials & Equipment

- Expansion Joint Assembly
- Setting Bars & Templates
- Cutting/Drilling Tools
- Grouting Materials
- Power Tools
- Measuring Instruments
- Personal Protective Equipment (PPE)

6. Procedure

1. Survey and mark the location of expansion joints as per drawings.
2. Clean and prepare installation area, removing debris and laitance from concrete deck edges.
3. Position expansion joint assembly using setting bars/templates for correct alignment and level.
4. Temporarily fix the joint in place and check levels, lines, and gaps according to specification.
5. Cary out adjustments as necessary to ensure proper positioning.
6. Casting or fixing of joint in accordance with manufacturer’s instructions and project standards.
7. Apply grout/concrete around joint edges to secure assembly.
8. Remove setting bars/templates after curing.
9. Clean excess grout/material and ensure joint movement is free.
10. Inspect and ensure compliance with approved drawings and specifications.

7. Safety

- Ensure all personnel wear PPE.
- Follow safe lifting and material handling procedures.
- Keep work area clean and free from tripping hazards.
- Provide proper signage and barricades.

8. Inspection & Testing

- Verify joint dimensions, levels, and alignment.
- Ensure free movement of joint after installation.
- Obtain and document approvals from project engineer.

9. Attachments

- Manufacturer’s Data Sheets
- Inspection Checklists
- Quality Records