

Method Statement for Reinforced Concrete Bridge Deck Construction

1. Scope of Work

This method statement describes the general procedures for the construction of a reinforced concrete bridge deck, including formwork, reinforcement, concreting, finishing and curing.

2. References

- Project Drawings and Specifications
- Relevant Standards
- Quality and Safety Plans

3. Materials

Material	Specification
Cement	Portland Cement, Grade 42.5N
Coarse Aggregate	Crushed Stone, 20mm max size
Fine Aggregate	Washed Sand
Water	Clean, potable
Reinforcement	Deformed Steel Bars, as per drawings
Formwork	Plywood/Timber/Steel, as required

4. Plant and Equipment

- Concrete mixer and vibrator
- Crane/Lifting equipment
- Shuttering materials
- Hand tools (trowels, screeds, etc.)

5. Work Procedure

1. **Setting Out**
 - Survey and mark deck extents and levels as per drawings.
2. **Formwork Installation**
 - Erect formwork, ensure stability and tight joints.
 - Apply release agent.
 - Inspect for alignment and dimensions.
3. **Reinforcement Placement**
 - Install reinforcement as per bar bending schedule.
 - Maintain required cover using spacers and chairs.
 - Inspection and approval before concreting.
4. **Concreting**
 - Place concrete continuously and vibrate thoroughly.
 - Level surface to required profile using screeds.
5. **Finishing**
 - Finish the surface as required (broom/steel trowel, etc.).
6. **Curing**

- Apply curing compound or cover with wet hessian sheets.
- Continue curing for minimum specified period.

7. Formwork Removal

- Remove formwork after sufficient curing, as per specification.
- Inspect for defects and carry out repairs if required.

6. Quality Control

- Verify materials and workmanship against specifications.
- Slump and compressive strength tests on concrete.
- Inspection records and concrete pour logs maintained.

7. Health and Safety

- Comply with all site safety regulations.
- Provide PPE for all personnel.
- Ensure safe working platforms and access.

8. Environmental Considerations

- Prevent spillage of cement and concrete into waterways.
- Minimize dust and noise levels.
- Dispose of waste materials properly.

9. Attachments

- Inspection and test plans
- Bar bending schedule
- Pour sequence diagram