

Road Construction Method Statement

1. Introduction

This method statement outlines the planned process for constructing the road at [Project Location]. It highlights the step-by-step approach, safety measures, and quality assurance protocols to deliver a durable and efficient roadway.

2. Scope of Work

- Surveying and site preparation
- Earthworks (cutting, filling, and leveling)
- Subgrade preparation
- Installation of base layers (sub-base, base course)
- Asphalt or concrete paving
- Road markings and final inspections

3. Objectives

1. Ensure compliance with local road construction standards and specifications.
2. Minimize environmental impact during the construction process.
3. Deliver a road with optimal strength, durability, and safety.
4. Complete the project within the given timeframe and budget.

4. Resources Required

4.1. Personnel

Project manager, engineers, equipment operators, and laborers.

4.2. Equipment

Graders, compactors, asphalt pavers, dump trucks, and water tankers.

4.3. Materials

Granular sub-base, asphalt mix, concrete, and marking paint.

5. Work Methodology

Step 1: Site Survey and Preparation

- Conduct topographical surveys.
- Clear the site of debris and vegetation.

Step 2: Earthworks

- Excavate and fill to achieve the required profile.
- Compact the soil to achieve the desired density.

Step 3: Subgrade Preparation

- Stabilize the soil with lime or cement if necessary.
- Compact and grade the subgrade.

Step 4: Base and Surfacing

- Lay and compact sub-base and base course.
- Pave the asphalt or concrete layer as per the design.

Step 5: Finishing

- Paint road markings and install signage.
- Conduct a final inspection for defects.

6. Safety Measures

- Ensure proper traffic management around the site.

- Provide PPE for all workers.
- Install warning signs and barriers

7. Quality Control

- Regular compaction and thickness checks for each layer.
- Ensure asphalt temperature is maintained during paving.

8. Environmental Considerations

- Minimize dust generation by using water spraying.
- Proper disposal of excavation and construction waste.

9. Emergency Procedures

- Emergency contact numbers and first-aid kits available on-site.
- Clear evacuation plan in case of accidents or extreme weather.