

METHOD STATEMENT**SUB-BASE AND ROAD-BASE****1.0 OBJECTIVE**

The purpose of this method statement is to describe the activities and methods, which will be used to carry out the placing of subbase and roadbase

2.0 CONSTRUCTION METHOD

The sequence of the work to be carried out shall be as follows:-

- 2.1 Placing of Lower Subbase
- 2.2 Placing of Upper Subbase
- 2.3 Placing of Road Base and Wet Mix Macadam

2.1 Placing of Subbase

- 2.1.1 Prior to placing any Lower Subbase material, the underlying subgrade shall be shaped and compacted in accordance to the specifications.
- 2.1.2 The material shall be placed over the full width of the formation to the required thickness as shown in the drawings in one layer or more, each layer not exceeding 200mm compacted thickness.
- 2.1.3 Each layer of Lower Subbase shall be process as necessary to bring its moisture content to a uniform level throughout the material suitable for compaction.
- 2.1.4 The Lower Subbase shall be compacted using suitable compaction equipment approved by the Engineer to not less than 95% of the maximum dry density determined in the B.S. 1377 Compaction Test (4.5 km rammer method).
- 2.1.5 The top of Lower Subbase shall have the required thickness, shape, superelevation, levels and grades as required in the drawings and shall be within the tolerances as specified in the specifications.
- 2.1.6 In the course of the construction, the level shall be checked using control/dipping pegs, set out at regular interval along both sides of the pavement.

METHOD STATEMENT**SUB-BASE AND ROAD-BASE****2.2 Place of Upper Subbase**

- 2.2.1 Prior to placing any Upper Subbase material, the underlying subgrade or subbase shall be shaped and compacted in accordance to the specifications.
- 2.2.2 The crushed aggregate from approved sources shall be placed over the full width and to the required thickness as shown in the drawings in one layer or more, each layer not exceeding 200mm compacted thickness.
- 2.2.3 Each layer of Upper Subbase shall be process as necessary to bring its moisture content to a uniform level throughout the material suitable for compaction. The correct moisture content of the material shall be maintained by the sprinkling water with a water truck.
- 2.2.4 The Upper Subbase shall be compacted using suitable compaction equipment approved by the Engineer to not less than 95% of the maximum dry density determined in the B.S. 1377 Compaction Test (4.5 km rammer method).
- 2.2.5 The motorgrader shall be taken care in maintaining uniform gradation of the materials and prevent its separation into coarse and fine parts.
- 2.2.6 The top of Upper Subbase shall have the required thickness, shape, superelevation, levels and grades as required in the drawings and shall be within the tolerances as specified in the specifications.
- 2.2.7 In the course of the construction, the level shall be checked using control/dipping pegs, set out at regular interval along both sides of the pavement. Joint survey works on the existing road profile level shall be carried out to establish the original profile of the location being overlaid.

METHOD STATEMENT**SUB-BASE AND ROAD-BASE****2.3 Placing of Road Base or Wet Mix Macadam**

- 2.3.1 The material shall be laid using an approved machineries and compacted in layers in accordance with specification. Any areas of compacted material having a loose surface deficient in fines due to segregation or otherwise shall be made good by being removed and replaced with properly graded material.
- 2.3.2 Preparation of Road base and Wet Mix Macadam shall follow previous layer procedure.
- 2.3.3 Prior to laying, the stringline for the gradeline sensor shall be set out by the survey team at regular intervals along the sides of the carriageway and shall be set to the required levels.
- 2.3.4 After the stringline level is jointly surveyed, the laying operations may commence. Prior laying, foreman shall ensure that all gradeline and slope sensors are set and working properly.

3.0 PLANT AND EQUIPMENT

Type of machineries required,

- i. Motor Grader/paver
- ii. Back pusher with power broom