

SECTION 2 – SURCHARGE OF PLATFORM

2.1 SURCHARGE PLACEMENT

Surcharge shall be placed at the locations and to the thickness shown on the Drawings. Placement of surcharge shall be concurrent with formation of the associated embankment unless otherwise directed.

Surcharge material can be suitable fill material or hard clean sand as defined in Clause 1.5 and shall be compacted to the requirement compaction.

Surcharge shall remove only after informing the Designer, and shall be carried out in accordance with the method and procedure stated in the Drawings. The Contractor shall be responsible for the provision of surcharge material and the removal and disposal of excess material on completion of consolidation or when informed by the Designer.

2.2 INSTRUMENTATION

2.2.1 General

The Contractor shall be responsible for and shall follow the instructions of the manufacturer in the installation, calibration and testing of all measuring instruments and equipment.

2.2.2 Settlement Plates And Displacement Markers

- (i) Settlement Plates and rod displacement markers shall be provided and installed vertically by the Contractor in the positions determined by the Designer for the purpose of measuring settlements under the embankment and lateral displacements taking place adjacent to the embankments during and after the construction period. The Contractor shall be responsible for installation of all gauges as work proceeds. Continuation gauges shall be installed when the level of compacted embankment is 250 mm below the top of the proceeding gauges.
- (ii) The Contractor shall take all necessary measures to protect rod gauges from damage by plant and vehicles and shall repair any such damage at his own expense. He shall erect substantial and readily visible barriers at a distance of 750 mm around each gauge.
- (iii) The Contractor shall replace any damaged gauges within seven days, at his own expense.
- (iv) The Contractor shall exercise great care in placing and compacting fill material around the gauges and shall ensure that the methods adopted will in no way damage them.
- (v) Should a settlement plate be damage or should the Contractor fail to extend the gauge when required he shall stop all filling in the vicinity of the gauge until the necessary remedial works have been carried out.

2.2.3 Survey Stations

- (i) The Contractor shall be responsible for establishing survey stations in locations selected by the Designer to monitor the settlement plates and displacement markers and for installing permanent survey base stations on undisturbed ground clear of the embankment. The survey stations shall be located on stable ground not affected by the Works.
- (ii) The station shall comprise steel rods of 20 mm diameter, which shall be driven vertically into the undisturbed ground for a minimum distance of 1.0 m and shall project approximately 75 mm above ground surface. The rods shall be surrounded by not less than 0.03 m³ of concrete at surface level, and their tops shall be carefully squared and center punched.