

- I. Where a pressure test fails on a gravity pipeline the source of leakage shall be ascertained by inspection and rectified by relaying the defective length.
- J. Where a pressure test fails on a pressure pipeline the source of leakage shall be ascertained by inspection and rectified by either relaying the defective length or, if the defect is at a flanged joint, by replacing the joint gasket.

#### Infiltration Tests

- A. Non-pressure pipelines (including tunnels and shafts) and manholes shall be tested for infiltration after backfilling. All inlets to the system shall be effectively closed, and any residual flow shall be deemed to be infiltration.
- B. The pipeline, including manholes, shall be accepted as satisfactory if the infiltration, including infiltration into manholes, in 30 minutes does not exceed 0.5 litres per linear metre per metre of nominal bore.
- C. Notwithstanding the satisfactory completion of the above test, if there is any discernible flow of water entering the pipeline at a point which can be located either by visual or CCTV inspection, then measures as are necessary to stop such infiltration shall be taken.

#### Electrical Tests

Each electrical equipment cable and complete system shall be thoroughly inspected and tested before finally placing in to service. All tests shall be made in compliance with respective regulations, recommendations and standards. Any modifications or repairs deemed necessary upon completion of the tests shall be executed at the contractor's expenses. The Employer shall carry out further tests on any modified or repaired equipment until it is certified trouble free and acceptable for its intended service. All testing shall be demonstrated to the Engineer.

### **26.4.11 Control System**

- A. Each particular function of the system shall be demonstrated in accordance with an approved commissioning procedure developed and to the requirements of the Engineer.

**END OF SECTION**