

- I. The Contractor will bear the full responsibility of the good quality and the performance of the repairs; and therefore can increase the type and number of laboratory testing specified elsewhere in the Tender Documents in order to satisfy himself with the quality of the performed repair without any additional cost.

### **13.3.2 General Requirements**

- A. The Engineer shall keep the right to select the repair system for a certain concrete area.
- B. The Contractor shall perform the repair works on a certain concrete area / structural element in strict accordance with the repair system selected by the Engineer for the same area / element.
- C. The Contractor shall follow the instructions of the Engineer on where and what to start the repair with, on a certain area.
- D. The concrete repair works shall include, but not limited to, the following:
  1. Treatment of the defective expansion joints.
  2. Repair of the defective pipes crossing.
  3. Injection of resin/chemical at leaking points/areas.
  4. Treatment of concrete dead cracks, live cracks.
  5. Repair of the deteriorated / contaminated concrete areas.
  6. Repair of the settled ground finishes, etc.
- E. The Contractor shall then, apply coating on the surface of the concrete wherever directed by the Engineer.
- F. In case the concrete at the bottom parts of a certain area is defective / contaminated, the removal of concrete in this area shall extend below the ground level to reach sound concrete or as may be directed by the Engineer in order to repair the extent of the defects.

### **13.3.3 Repair of Expansion Joints**

- A. The Contractor shall submit his method statement for repairing the defective expansion joints and shall be supported with the manufacturer's recommendations to the approval of the Engineer as follow:

1. Below liquid level: (external faces of liquid containing structures)

The following method of repair, or equivalent approved, shall be as follows:

- a) Breaking the defective concrete from each side of the expansion joints, and