

- A. Upon receipt of the condition survey report the Engineer shall study the same and give his written instructions backed up by marked up copies of plans showing the repairs to be carried out.
- B. Depending on the nature, location and extent of defects the Engineer will need time to construct the appropriate instructions for the repairs. The Engineer may need to carry out further selected investigations, calculation, and analysis, hold meetings and seek approvals through the various bodies. The Contractor shall therefore in his programme, allow the Engineer a reasonable period of time of not less than 14 days to carry out his study, analysis and repair strategies and to formulate the necessary instructions. For this reason the Contractor must notify the Engineer immediately of any unreasonable delay or disruption that the Contractor may envisage due to late instructions by the Engineer. Any claim citing late instructions by the Engineer as a cause will not be considered unless written notifications with satisfactory proofs have been forwarded to the Engineer immediately after the cause has occurred. The Contractor shall not claim ignorance of the event as a justification for his delayed or late submission of claims.
- C. The repair strategy shall be determined by the Engineer. This shall include but not be limited to the following:
 - a. Concrete to be repaired and methods proposed based on the approved system.
 - b. Basis for concrete removal and replacement. This shall extend to areas of concrete contaminated with aggressive agents such as chlorides, sulphates, physical defects such as spalling, cracking and rust staining; chemical deterioration such as alkali-silicate reaction, carbonation, magnesium and sulphate attack; or any other form of attack.
 - c. Extent and limitations and pre-repair preparations.
 - d. Repair systems and materials to be used.
 - e. Management and supervision.
 - f. Quality control.
- D. On receipt of the repair strategy from the Engineer, the Contractor shall prepare detailed methodologies for undertaking the repair. These shall include, if appropriate, safeguards, including structural support system, before staged removal of the defective areas of concrete.

9.3.3 Trial and Demonstration Repairs