

3.3.10 Field Quality Control

A. Independent Testing Laboratory

1. Comply with pertinent provisions of Section 01400 – Quality Control.
2. Comply with pertinent requirements of the authorities having jurisdiction. Obtain approvals from these authorities.
3. The Contractor shall provide a qualified independent testing laboratory, experienced with local construction conditions and materials, to conduct tests and submit reports for the concrete mixes to ensure compliance with the Specification. The use of the proposed laboratory is subject to the approval of the Engineer.
4. Constituent materials shall be obtained from suppliers operating quality systems in accordance with Section 01400 - Quality Control.

B. Transporting and Curing of Samples

1. Samples shall be taken on site at the point of delivery. Test cubes shall be made, cured, stored, transported and tested to BS 1881 Parts 108, 111 and 116.
2. The Contractor shall establish a site curing facility. Test cubes shall not to be de-moulded at periods of less than 24 hours and shall not be transported before 48 hours have elapsed.

C. Sampling Cubes

1. A sample of concrete shall be taken at random on eight separate occasions during the first five days of using a mix, at least one sample being taken each day.
2. Thereafter one sample shall be taken at random for each class of concrete in accordance with Table 3-7 of the Specification.
3. In addition to the above requirements, at least one sample shall be taken from each individual structural unit, or part of a unit, when the latter is the product of a single pour.
4. From each sample, three cubes shall be made for testing at 28 days and one for testing at 7 days for control purposes.
5. The frequency of sampling may be required to be varied if directed by the Engineer.
6. The procedures shall be repeated when materials or design mixes are