8. Before any material from a particular source is used, the Contractor shall obtain representative samples of fine and coarse aggregates and carry out the necessary tests and analyses to show that the samples comply with the Specification. During the progress of the Works, the grading and chemical characteristics shall be checked at frequent intervals.

9. The results of these tests shall be submitted to the Engineer and his approval shall be obtained before any of the material is used in the Works. Part of each sample will be required for concrete trial mixes and part shall be retained for comparison with subsequent deliveries.

10. Sampling for testing and analysis shall be carried out, where applicable, in accordance with BS 812 Part 102.

11. The maximum size of the aggregate shall not be larger than:

    a. 20% of the narrowest dimension between sides of the member for which the concrete is to be used.

    b. 75% of the maximum clear distance between reinforcing bars or the side form.

    c. The nominal aggregate size specified for the mix.

12. Fine Aggregate shall be clean sharp natural and/or crushed sand and shall be within BS882 Table 4 zones C and M only.

13. Beach sand shall not be used in concrete mixes.

14. Coarse aggregate shall be crushed aggregate obtained from a quarry approved by the Engineer.

15. Unless otherwise authorised by the Engineer coarse aggregate shall be delivered to the batching plant in separate sizes according to the maximum specified aggregate size for each grade of concrete.

16. Coarse aggregate shall be prepared as single sized aggregate and blended to produce normal size grading. The combined grading shall be within the appropriate grading limits given in BS 882.

17. The Contractor may mechanically wash aggregate to remove salts and other impurities in order to meet the requirement specified.

18. No part of the aggregates shall contain any mineral known to have a potential to cause alkali silica, alkali silicate, alkali carbonate, or any other damaging chemical reaction between alkalis and aggregates. The Contractor shall demonstrate to the Engineer's satisfaction that the