

Technical Specification

Working Site

The site should be kept clean during the construction work period and should be thoroughly cleaned once the works are completed. Works should be carried out on site in a safe manner to all the workers on site and the people living in the vicinity of site. Disturbance to the neighborhood should be kept to a minimum. Electricity and water supply to the site, during construction period, should be provided by the contractor

Concrete

1. Cement conforming to BS12 standards should be used for all concrete, masonry and plastering works. The cement intended for use should be fresh and should not have any traces of hardened cement in the bag.
2. All concrete works should be done using one brand of cement
3. Sand and aggregate used for concrete works should be well graded.
4. Concrete should be mixed in the ratio 1:2:3 which are 1 part cement, 2 parts sand and 3 parts aggregate.
5. All foundations should be cast on a lean concrete layer. The lean concrete should be placed on well compacted ground.
6. Concrete should be mixed using a concrete mixer. Concrete should not be mixed by hand. When pouring concrete into the formwork, the mix should be compacted using a mechanical vibrator.
7. Aggregate used for concrete works should not be larger than 20mm.
8. Sand and aggregate used for concrete works should be clear from dust, mud and other debris.
9. All reinforcement bars used for the concrete works should be free from rust and grease that could weaken the bonding between the reinforcement bar and the concrete. Care should be taken to use continuous bars rather than short segments joined by laps.