

CIRCULAR NO: - 283

Sub: - Important instructions regarding pile foundation work.

The following instructions shall be kept in mind while carrying out the above work. These are of essential nature. The standard specifications and codes of practice shall be as follows:

1. Testing of pile work shall be carefully done.
2. Test to be carried out for a specific job shall be predetermined by the competent officer who is the technical sanctioning authority.
3. Complete drawings shall be made available.
4. After the final tests are conducted, a certificate shall be recorded by the EE or SE that the test on the piles are conducted conclusively and successfully and the foundations are best for constructing super structure. This certificate shall be put recorded before the final bill of the pile foundation work is completed and the building work physically starts in the superstructure.

A separate register for actual quantity of cement used in each pile shall be maintained and the method of concreting shall be mentioned.

The level of pile should be properly determined with reference to the actual ground levels and the foundation levels necessary for the building. The following shall also be kept in view:

- (a) The bottom level of pile, the cut of level and the level of bottom of grade beam should be decided which should be as per structural drawing. These levels can be checked with respect to some bench mark established at the site of work.
- (b) The pile should be bored to complete depth. The depth of the pile after it is bored should be checked by comparing it with the length of the auger and extension rod used subsequently.
- (c) By the length of the under runner and extension rods.
- (d) Finally it should be cross checked after the reinforcement cage is inserted which should be framed as per the structural drawing. The reduced level of top of reinforcement cage should be checked and it should be compared with the theoretical reduced level.

The cement used in piles shall be properly selected keeping in view the type of water and the soil surrounding the piles. Care shall be taken to ensure that the correct quantity of bentonite is used on the job. The sample shall be got tested at least in two laboratories and not in one laboratory only.

11/11/36  
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B. S. Murti  
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