

DELHI DEVELOPMENT AUTHORITY  
ENGINEER MEMBER'S OFFICE

NO:EM(18)03/612

dt. 11.1.70

CIRCULAR NO: 201

During the inspection of one of the pile foundation work of D.D.A. by the Chief Technical Examiner, the following short comings were noticed.

1. The bentonite slurry used in the work was not got tested for its specific gravity as specified in I.S. Code No. 2911(Pt.-III) and bentonite used was not as per the specifications.

In this regard it is advised that the bentonite should be got tested as per the provision of I.S. Code No.2911 (Pt.-III) 1966 before it is used on the work.

2. In the specifications appended to agreement the special condition as under was contemplated to be followed.

"The work shall be executed and measured in metric units. Concrete used for piles shall be of nominal mix to give a minimum cube crushing strength of  $200 \text{ Kg./Cm}^2$  at 28 days and shall be as specified in the nomenclature of the item. For other R.C.C. items strength shall be conforming to C.P.W.D. specification."

The above condition of acceptance criteria of cube crushing strength of  $200 \text{ Kg./Cm}^2$  at 28 days is contrary to the nomenclature of piling item where the mix of reinforced cement concrete is mentioned as 1:1½:3 (1 cement 1½ coarse sand & 3 stone aggregate, 20mm. nominal size). The 28 days cube strength of cement concrete 1 : 1½ : 3 as per C.P.W.D. specification is  $265 \text{ Kg./Cm}^2$ . It is therefore advised that hence forth no such special condition for acceptance of cube crushing strength should be given in the agreement which is contrary to C.P.W.D. specifications as it leads to ambiguity.

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The above instruction should meticulously be followed by all concerned.

*V.S. Murti*  
16/90  
V.S. MURTI  
Engineer Member

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*Sahni*  
E.O.-I to E.M.  
D.O.A.