

DELHI DEVELOPMENT AUTHORITY

No. EM.1(10)83/4147

Dt: 13.7.83

CIRCULAR NO. 34

Sub: Mixing of Concrete.

The Fact Finding Committee appointed by Lt. Governor headed by Er. V.R. Vaish has recommended that concrete should be mixed in specified proportion with proper quality of materials. Measurement of aggregate for the mix being done by baskets be stopped. The coarse aggregate used should be properly graded and that good quality Badarpur sand with a silt content within permissible limit should be used. If good quality of Badarpur sand is not available, stone dust can be used for RCC work as provided in CPWD Specification. For all RCC slabs, columns and beams AEs and JEs should personally supervise the concreting.

Attention of all Engineers is drawn to provisions made in CPWD Specifications for preparation of cement concrete. In connection with proportioning, these specifications lay down that Boxes of suitable size shall be used for measuring sand and aggregate. The internal dimensions of the boxes shall be generally 35x25x40 cms deep or as otherwise approved by the Engineer-in-charge. The unit of measurement for cement shall be a bag of 50 kg. and this shall be taken as 0.0347 Cubic Meter. While measuring the aggregate shaking, ramming or heaping shall not be done. The proportioning of sand shall be on the basis of its dry volume, and in case of damp sand, allowance for bulking shall be made as prescribed in specifications.

Specifications for coarse sand lay down that maximum quantity of silt as determined by the methods prescribed in an appendix-D page 73 of CPWD specifications 1977 Volume-I shall not exceed 8%.

All Engineers in DDA are requested to follow the specifications scrupulously while executing concrete and reinforced concrete work under their control.

Sd/-
(K.D. BALI)
ENGINEER MEMBER