



City & Industrial Development Corporation Ltd.
Superintending Engineer (Quality Control)

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CIRCULAR

Subject: Guidelines for approvals of RMC Plants, Concrete Mix Designs and acceptability of concrete by EIC for projects undertaken by CIDCO.

Based on common observations in respect of concrete works noticed during the audits of various projects, following instructions are issued:

- 1) Prior to approving the RMC plant for particular project, EIC should ensure that registration of RMC plant is valid during the project and allow procurement of concrete as per permission granted for the period mentioned in registration certificate.
- 2) EIC should ensure that, the RMC Plant approved for their project undergoes surveillance audit by EE (QC) division at the end of every year of registered block period, as per date of surveillance audit mentioned in registration certificate of RMC plant.
- 3) EIC should ensure to collect copy of "Performance Certificate" of RMC Plant issued by EE (QC). If in case, RMC plant fails to submit "Performance Certificate" issued by EE (QC) well in time as mentioned in registration certificate, procurement of concrete from approved RMC plant shall be suspended.
- 4) Approval to Captive RMC plant i.e. the RMC plant established near work site area and serving dedicatedly for project only, shall be sought from SE (Concern Site), subject to fulfilment of MPCB or other statutory norms. On approval to captive RMC plant from SE (Concern Site), EIC shall inform QC division regarding the establishment & approval of the same, so that audit of captive RMC Plant can be planned during IHQA visit.
- 5) EIC to approve Concrete Mix Design recommended / verified by CIDCO Material Testing Laboratory (CMTL) only.
- 6) CMTL has initiated to issue concrete mix designs to RMC plants that can be adopted at different sites, without verification. EIC may approve such concrete mix design for projects under them, subject to following conditions:
 - The concrete mix design shall be valid at the time of concreting.
 - EIC to ensure that, the properties of concrete like workability, strength, retention time etc mentioned in concrete mix design report are conforming to site conditions.

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- The brand / source of materials mentioned in concrete mix designs are unchanged.
 - The brand of ingredients mentioned in concrete mix designs are valid as per approved list issued by EE (PA&R) division, at time of concreting.
 - In case, if validity of any or all the ingredient is not valid at the time of concreting, approval of SE (Concern Site) shall be taken prior to concreting.
- 7) EIC shall ensure concrete mix design is carried out as per appropriate method prescribed in relevant codes like BIS 10262:2017 (for normal concrete, high grade concrete & SCC), Cl. 1700 of MoRTH (for bridge works) or IRC (for PQC / DLC or other roadworks), prior to approving the same for use at site.
- 8) EIC to ensure that, the validity of concrete mix designs are maintained throughout the project duration. EIC shall take care to verify the concrete mix design from CMTL well before the expiry of its validity and maintain the continuity of validity of concrete mix design during project.
- 9) EIC to ensure that, the provisions of Cl. 15.4 and Cl. 16 of BIS 456 : 2000 including Amendment No. 3 of 2007 and Amendment No. 4 of 2013 to IS 456 : 2000, in respect of acceptance criteria of concrete works is followed scrupulously and documents in this respect are maintained precisely. The illustrative example is worked out in "Quality Test Manual – Vol - I" released by EE (QC) division and is available on CMTL portal as reference for practising the acceptance criteria of concrete at site.

This is issued as approved by competent authority.


SE (QC)

(S. B. Thakur / 22488)

To,

All SE's – SE ()

All EE's – EE ()

Cc for information please:

CE (NM) / CE (NMIA & SP) / ACE (I) / ACE (II) / ACE (III) / ACE (IV)

Cc to : Manager (System) – Request to upload this circular on intranet.

Cc to : EE (QC) – Request to upload this circular on Laboratory portal.