

Date:

Participant's information:

Name of the participant 1:

Name of the participant 2:

Name of the participant 3:

Name of the institution:

Address of the institution:

Phone number:

Email address:

Design report:

Q.) Design three concrete cubes of 100 mm size having strength of 40-48Mpa. Take note that the range is not for the average weight of the three cubes but calls for each cube's strength to fall within the specified range. Within the specified range there are no points awarded for higher strength. Least weight for the concrete cubes is desirable and their average will be taken for grading in the judging format.

Cement properties:

Type of cement used:

Fineness % of cement:

Specific gravity of cement:

Consistency of cement (% of water required):

Initial setting time:

Final setting time:

Fine aggregate:

Size of aggregate:

Specific gravity:

Grading zone of FA:

Fineness modulus:

Coarse aggregate:

Specific gravity:

Fineness modulus:

Admixture used (if any):

Type:

Specific gravity:

Concrete Properties:

Water binder ratio:

Cement content:

Workability:

Method of Mixing:

Degree of supervision:

Additional materials added (if any):

Design procedure:

- 1. Target mean strength:**

2. Water cement ratio:

3. Selection of water content:

4. Calculation of cement content:

5. Calculation of coarse aggregate and fine aggregate:

6. Absorption of CA/FA and free moisture in FA (if any):

7. Calculation of mix proportions including site correction:

8. Comments:

Signature of the Head of department:

Seal of the institution: