Mortar master

mortarmaster@pragyan.org

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 100mm size having minimum compressive strength of 30Mpa using predominantly eco-friendly and waste materials.

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:

(Note: All entries are compulsory)

Coarse aggregate:

Specific gravity:

Fineness modulus:

Admixture used (if any):

Type:

Specific gravity:

Concrete Properties:

Water cement ratio:

Cement content:

Workability:

Method of Mixing:

Degree of supervision: (Rate on a scale of 1 to 10, 10 being excellent and 1 being negligent)

Additional materials added (if any):

Design procedure:

1. Target mean strength:

(Note: Please restrict the text content within the space provided)

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:**