## Mortar master

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 $40-48 \mathrm{Mpa}$. Take note that 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 cement 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:
