

EXPERIMENT-2

WATER ABSORPTION TEST ON BRICKS

Aim- To determine the percentage of water absorption of bricks

Apparatus

A sensitive balance capable of weighing within 0.1% of the mass of the specimen and ventilated oven

Specimen

Three numbers of whole bricks from samples collected for testing should be taken.

Procedure

(I) Dry the specimen in a ventilated oven at a temperature of 105 °C to 115°C till it attains substantially constant mass.

(II) Cool the specimen to room temperature and obtain its weight () specimen too warm to touch shall not be used for this purpose.

(III) Immerse completely dried specimen in clean water at a temperature of $27 \pm 2^\circ\text{C}$ for 24 hours.

(IV) Remove the specimen and wipe out any traces of water with damp cloth and weigh the specimen after it has been removed from water ().

CALCULATIONS

Water absorption, % by mass, after 24 hours immersion in cold water is given by the formula,

The average of result shall be reported.

Result

Water absorption of the given bricks =%