Curing

The test specimens after compaction are allowed to dry for a period of 24 hours. The specimens are to be kept in ordinary curing tank and allowed to cure for a period of 7, 14 and 28 days.

TESTING OF PLASTIC SAND BRICKS

Bricks should pass through the following tests after 7, 14 & 28 days from curing:

Weight of Dry Block

Weight of the block has to be taken to calculate the moisture content. As per the construction norms the brick should show the 10% moisture content of its weight. If the moisture content satisfies this test it will undergo the next test.

Size of Block
Sizes of brick are checked for the slump test & to calculate the compressive strength of brick. Also through this test the uniformity of the brick is checked in six samples.

Compressive strength

Compressive strength of the specimen brick is calculated after 7, 14 & 28 days of curing using the formula as follows, Compressive strength = Applied Max load x 1000 (N)/Cross sectional Area (mm$^2$). The universal testing machine is used for testing the compressive strength of bricks. After the curing period gets over bricks are kept for testing. To test the specimens, the bricks are placed in the calibrated compression testing machine of capacity 3000 kN (Kilo Newton) and applied a load uniform at the rate of 2.9 kN/min. The load at failure is the maximum load at which specimen fails to produce any further increase in the indicator reading on the testing machine.