

1.2 METHODS OF ESTIMATION

The quantities like earth work, foundation concrete, brickwork in plinth and super structure etc., can be worked out by any of the following two methods

- a) Long wall - short wall method
- b) Centre line method.
- c) Partly centre line and short wall method.

1.3.1 LONG WALL-SHORT WALL METHOD

In this method, the wall along the length of the room is considered to be the long wall while the wall perpendicular to the long wall is said to be the short wall. To get the length of the long wall or short wall, calculate first the centre line lengths of individual walls. Then the length of the long wall, (out to out) may be calculated after adding half breadth at each end to its centre line length. Thus the length of the short wall measured into and may be found by deducting half breadth from its centre line length at each end. The length of the long wall usually decreases from earth work to brick work in super structure while the short wall increases. These lengths are multiplied by breadth and depth to get quantities.

1.3.2 CENTRE LINE METHOD

This method is suitable for walls of similar cross sections. Here the total centre line length is multiplied by breadth and depth of the respective item to get the total quantity at a time. When cross walls or partitions or verandah walls join with the main wall, the centre line length gets reduced by half of the breadth for each junction. Such junction or joints are studied carefully while calculating the total centre line length. The estimates prepared by this method are most accurate and quick.

1.3.3 PARTLY CENTRE LINE AND PARTLY CROSS WALL METHOD

This method is adopted when the external (i.e., around the building) wall is of one thickness and the internal walls have different thicknesses. In such cases, the centre line method is applied to external walls and the long wall-short wall method

issued to internal walls. This method suits for different thicknesses walls and different level of foundations. Because of this reason, all Engineering departments are practicing this method.

