



**DIPLOMA IN CIVIL AND ENVIRONMENTAL  
ENGINEERING**

**CENTRALIZED QUESTION BANK**

**1010234640 - ESTIMATION AND COSTING**

**DIRECTORATE OF TECHNICAL  
EDUCATION GOVERNMENT OF  
TAMILNADU**

## DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025

**Course:** Civil and Environmental Engineering

**Subject:** Estimation and costing

**QP Code:** 1010234640

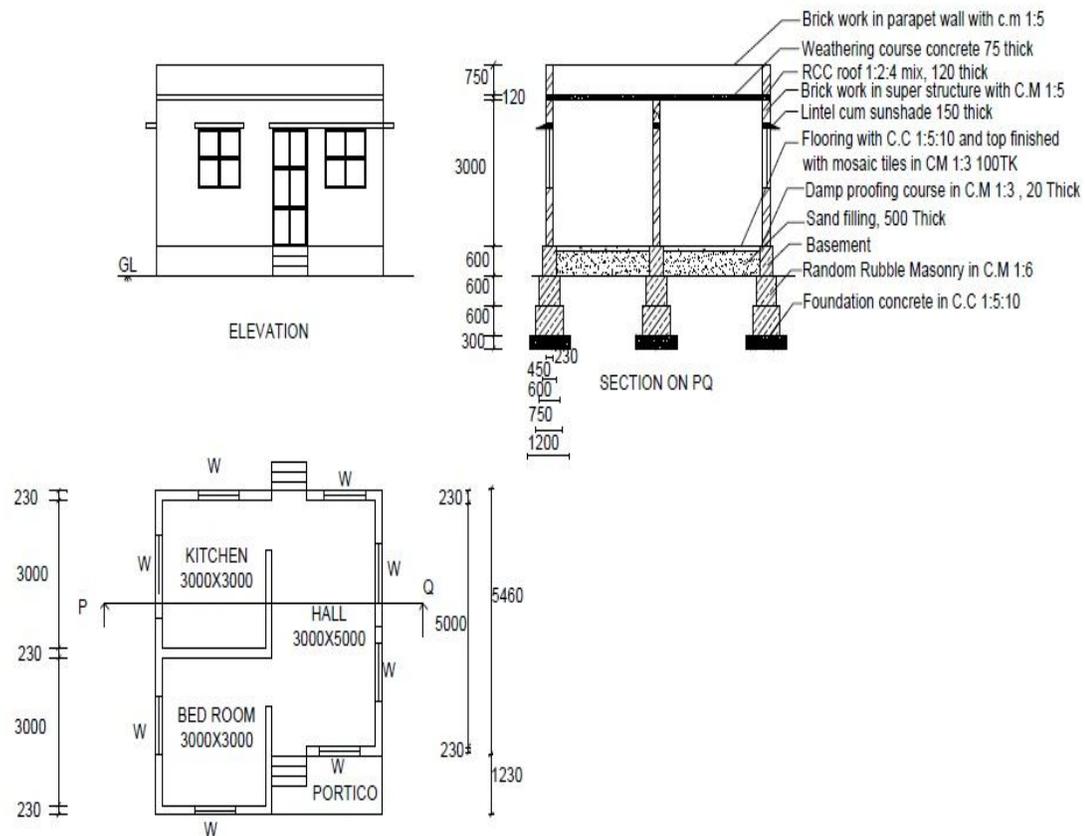
**Time:** 3 Hours **Date:**

**Session:**

**Max Marks:** 100

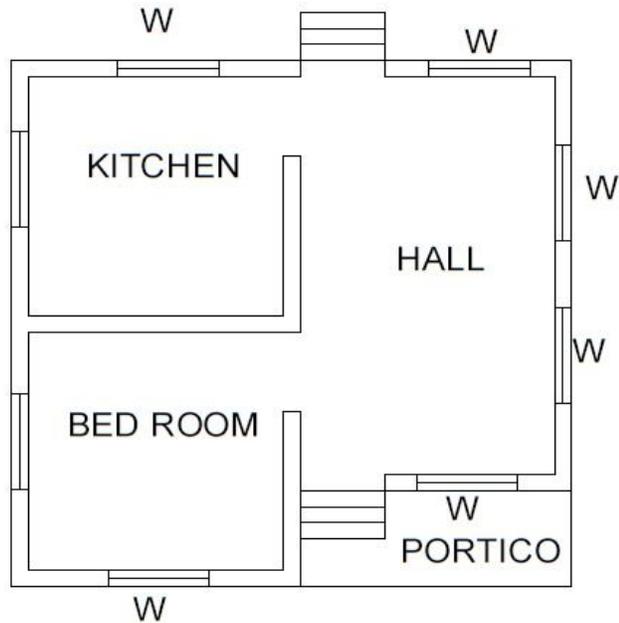
### Answer the following Questions

1. Prepare approximate cost for a proposed building comparing the cost of an existing one and considering the cost of escalation in materials and labour by Plinth area method.
2. Prepare approximate cost for a proposed building comparing the cost of an existing one and considering the cost of escalation in materials and labour by cubical content method.
3. Prepare the list of items to be executed with units for detailed estimate of a given structure from the given drawing.

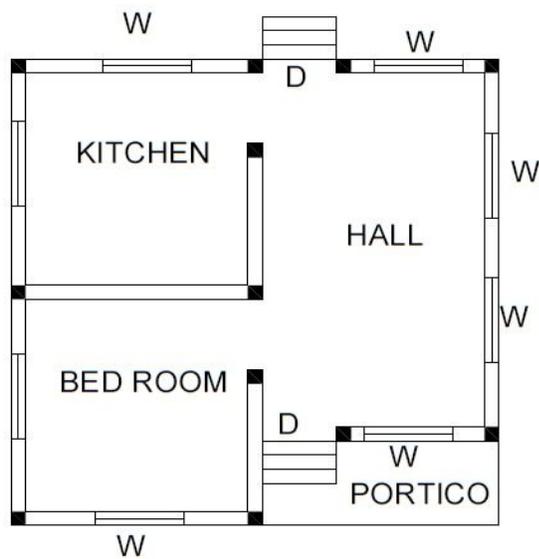


4. Prepare a report on market rates for given material, labour wages hire charges of tools & equipment required to construct the given structure.
5. Prepare detailed Specification for Earthwork, Foundation concrete, R.C.C in Beam.

6. Prepare detailed estimate for the given set of drawings using standard measurement sheet for load bearing residential structure using description of item from 1BHK building.

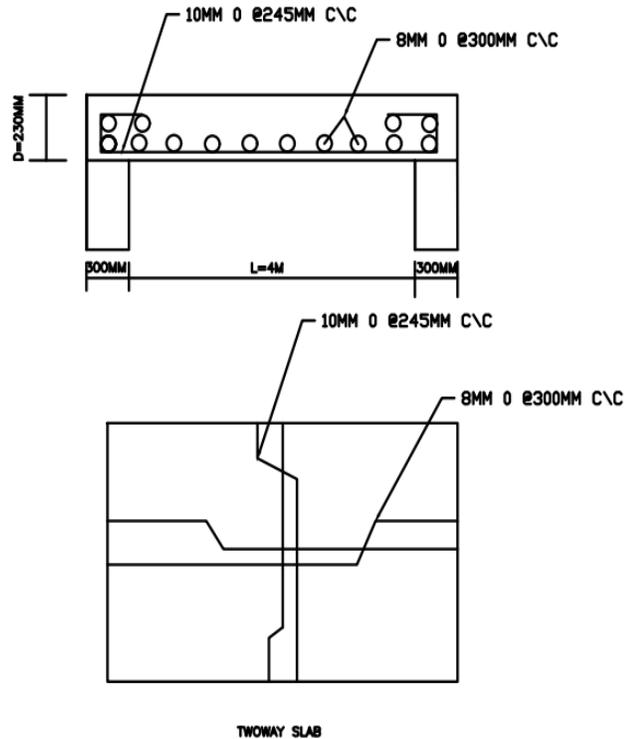


7. Prepare detailed estimate for the quantity of items of work from the given set of drawings using standard measurement sheet for RCC framed structure using description of item 1BHK building.



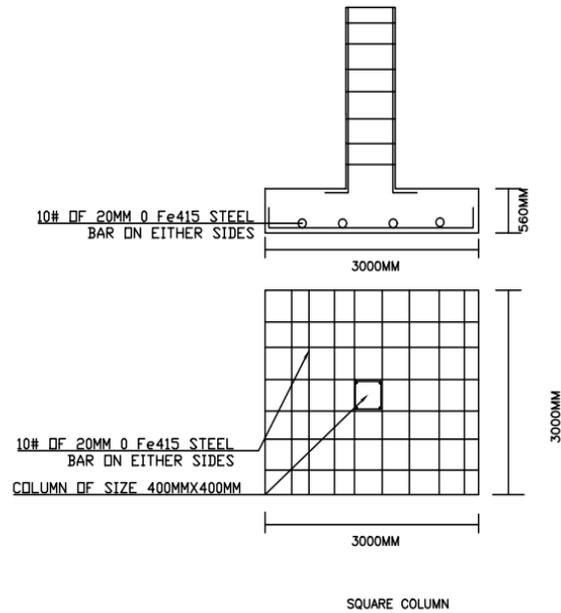
8. Prepare detailed estimate for brick work for the given set of drawings using standard measurement sheet for load bearing residential structure (1BHK building).
9. Prepare detailed estimate for RCC for the given set of drawing using standard measurement sheet (1BHK building)
10. Prepare bar bending schedule for the given two way slab.

QUS NO 10



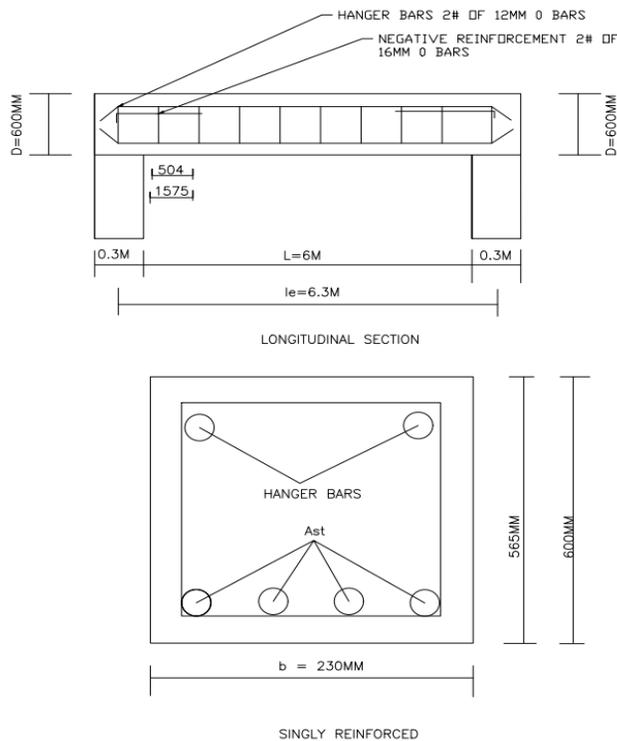
11. Prepare bar bending schedule for the given square column and square footing.

QUS NO 11

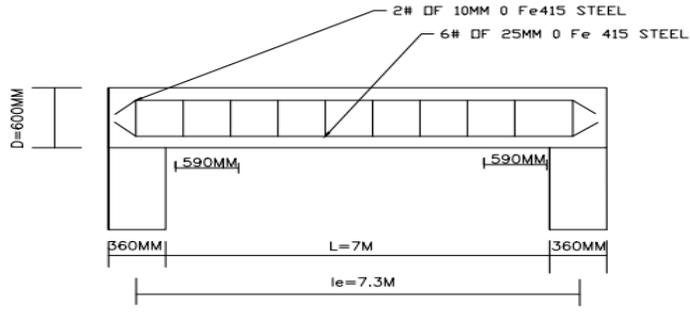


12. Prepare bar bending schedule for the given singly reinforced and doubly reinforced beams.

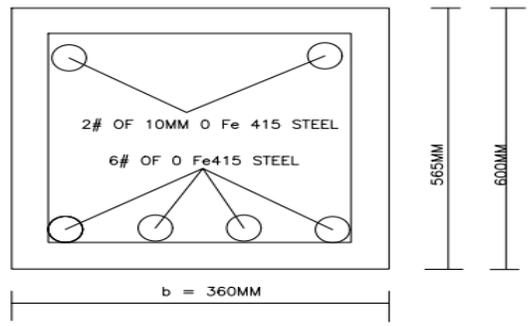
QUS NO 12



QUS NO 12



LONGITUDINAL SECTION



CROSS SECTION

DOUBLY REINFORCED

### Allocation of Marks

<b>Sl. No</b>	<b>Description</b>	<b>Marks</b>
1	Aim and Apparatus Required	10
2	Tabulation / observation	20
3	Graph / Sketch / Calculation	20
4	Result	10
5	Written Test	30
6	Viva Voce	10
	<b>Total</b>	<b>100</b>