L. D. COLLEGE OF ENGINEERING, AHMEDABAD (GTU)

8th Semester Civil Engineering - PDDC 2013 Batch
### Subject Code & Name : X80601 - Professional Practice & Valuation

Assignment - 1 (Introduction and Building Estimate)

Date : 23-02-2017

Theory & Example:

1. Enumerate and discuss various types of estimates.
2. Calculate the quantity of brickwork in a segmental circular arch of 2.20 meter span 50 cm rise and 30cm thick the width of the wall is 30 cm.
3. Estimate the quantity of earthwork in footing, lime concrete in footing and earth work in foundation refill for a singled room servant's quarter having internal dimensions 3.5 m x 4.5 meter, walls 0.3 meter thick above plinth level, 0.4 m thick below plinth level with one footing 0.5 meter wide 0.2 meter deep over 0.8 m wide 0.3 m deep lime concrete layer. Foundation is 0.8 m wide and 1.10 m deep below ground level.
4. Prepare detailed estimate of quantity of RCC beam as mentioned in below fig, and show the bar bending schedule.
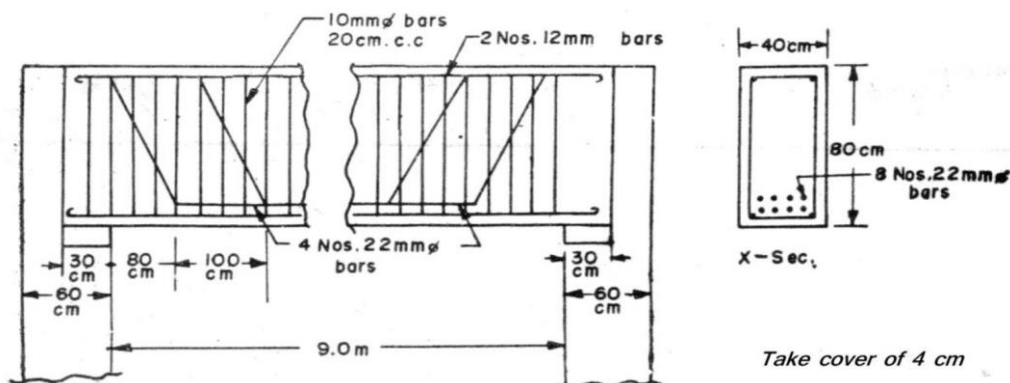
5. Estimate the quantities for: earth work in excavation, foundation PCC 15 cm thick, plinth area, earth required in plinth filling, for the plan given figure.
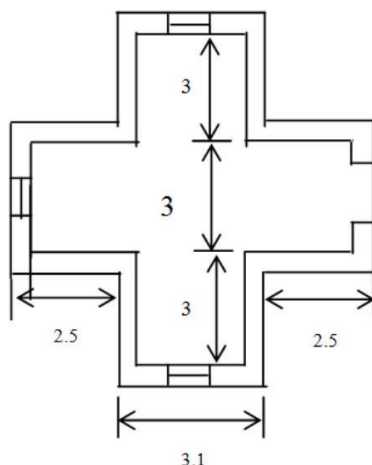
The spread footing foundation for the building is 0.9 meter wide consisting of three lifts of brickwork 0.4, 0.5, 0.6 m wide below the 0.3 meter thick wall and 15 cm thick foundation PCC below lift 3 which is 0.6 meter wide. Each lift is 10 cm thick. Total foundation depth is 0.9 meter. Plinth level is 30 cm high above the existing ground level.

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Assignment - 2 (Specifications)

Date : 23-02-2017

Theory :

1. Discuss the objective of preparing specification. Enlist types of specification and explain it.
2. Give the specifications for earth work in foundation, finishing of excavated trench, finds during excavation and specification for measurement of earthwork.
3. Write down detailed specification for lime concrete in foundation
4. Give general specification for first class brick masonry.

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Assignment - 3 (Market Survey)

Date : 23-02-2017

Theory :

1. Provide the prevailing market rate of the following materials in your city:

   - 10 mm diameter MS Bar
   - Gully trap
   - 53 grade Portland cement
   - 20 mm nominal size coarse aggregate
   - 1st class bricks
   - Kota stone
   - Oil paint

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Assignment - 4 (Rate Analysis)

Date : 23-02-2017

Theory :

1. Explain in details various factors affecting rate analysis.
2. Determine the unit rate for 230 mm thick brickwork in cement mortar 1:6.
3. Carryout the rate analysis for RCC work for beam in 1:1.5:3 CC.
4. Explain in brief about sundry, work charge establishment, Contingencies, Administrative approval, Schedule of Rates, Lump-Sum items
5. Explain the term 'Task work'. Discuss the factors affecting task work. Narrate the task work for mason.

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Assignment - 5 (Tenders and Contracts)

Date : 23-02-2017

Theory :

1. What is tender? What particulars are to be given in tender notice?
2. What are the duties and liabilities of Owner, Engineer & Contractor?
3. Enlist different type of contracts. Discuss any two in detail.
4. Enumerate and discuss various types of tenders.
5. Explain the 'tender'. Draft a tender notice for construction of boy's hostel for Engineering College.

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Assignment - 6 (Valuation)

Date : 23-02-2017

Theory & Example :

1. Define valuation. Explain in brief purpose of valuation. Discuss various factors affecting valuation.

2. How would you determine value of the property using rental method of valuation? Enumerate its advantages and limitations.

3. Enlist and explain various types of value.

4. Discuss the methods to determine depreciation.

5. Calculate amount of annual sinking fund at 5% interest for a building constructed at cost of Rs. 10,00,000. Assume the future life of building to be 30 years and scrape value of the building to be 15% of cost of construction.

6. Workout the rent per annum of a property from following details:

   - Cost of Land : Rs. 7,00,000/-.
   - Cost of Construction : Rs. 25,50,000/-.
   - Required return on land : 8%.
   - Required return on building : 9%.
   - Estimated life of building : 75 years.
   - Rate of interest on sinking fund : 8%.
   - Annual repairs : Rs. 25,000/-
   - All other outgoings : 30% of gross rent. Take scrap value of building as 10%

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