

QUANTITY SURVEYING

Q: Prepare an estimate of the building shown below:

KIRAN S.R.  
Lecturer in Civil Engineering  
Central Polytechnic College  
Dept. of Technical Education  
Thiruvananthapuram



Door D : 1.20 x 2.10  
Window W : 1.00 x 1.50

Wall thickness = 30cm

Ans:

Sl. No.	Item of work	No.	L	B	H	Quantity	Remarks
1.	Earthwork in excavation using manual or mechanical means, for foundation trenches	1	39.50	0.60	0.80	18.96 m <sup>3</sup>	Assume foundation trench 60cm wide & 80cm deep. Centerline lengths outer : (4.00 + 6.00 + 0.30 + 6.00 + 0.30) x 2 = 33.80m Inner = (6.00 + 0.30) - 0.60 = 5.70m Total c/l length = 39.50m
2.	Plain Cement Concrete of mix 1:4:8 in foundation	1	39.50	0.60	0.20	4.74 m <sup>3</sup>	Assume 20cm thickness c/l Length same as above = 39.50m
3.	Random Rubble Masonry in cement mortar 1:6. (a) In Foundation (b) In Basement	1 1	39.50 39.65	0.60 0.45	0.60 0.45	14.22 m <sup>3</sup> 8.02 m <sup>3</sup>	Assume foundation of 60cm width & 60cm depth. Basement of size 45 x 45 cm. c/l for foundation outer = 33.80m inner = (6.00 + 0.30) - 0.60 Total = 39.50m c/l for Basement outer = 33.80m inner = (6.00 + 0.30) - 0.45 Total = 39.65m
						22.25 m <sup>3</sup>	

# Quantity Surveying Manual Free

**Michael Rajnik**



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