



IQRA NATIONAL UNIVERSITY

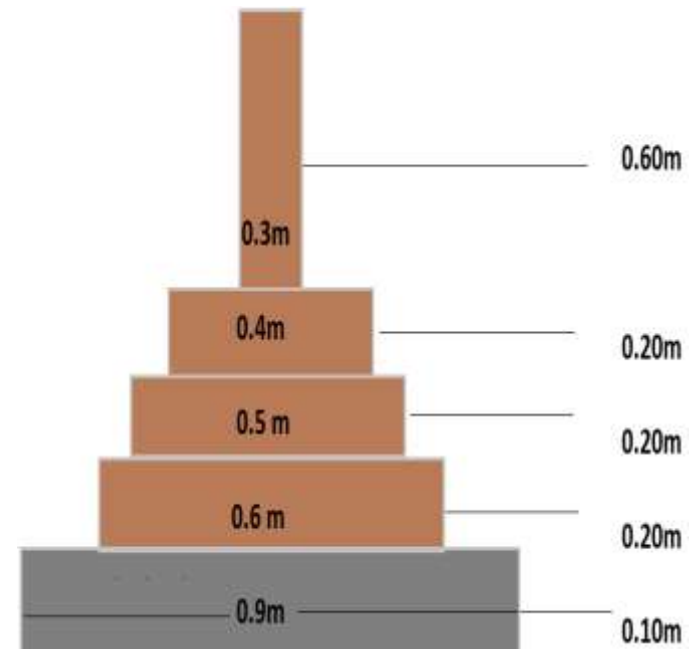
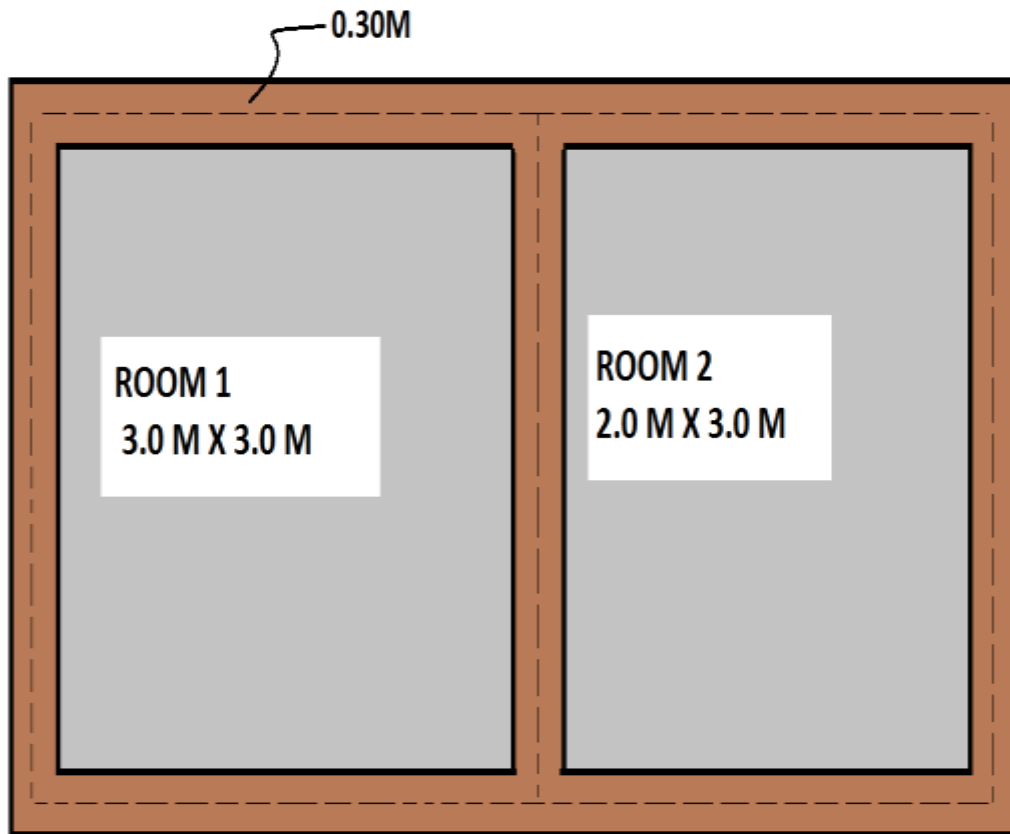
Quantity Survey & Estimation

Lecture 04

Center line method

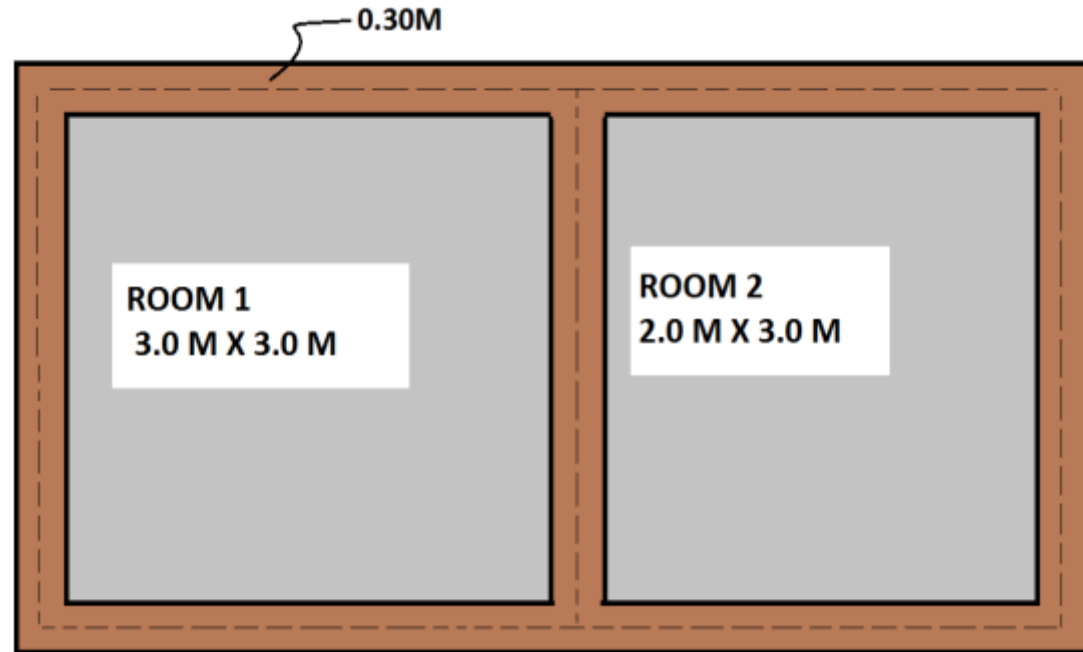
PREPARED BY ENGR. IMTIAZ KHAN LECTURER CED ,INU PESH

Calculate the given wall section with help of Center line method.



Center line calculation

$$\text{C.L} = s(\text{H}) + s(\text{V})$$

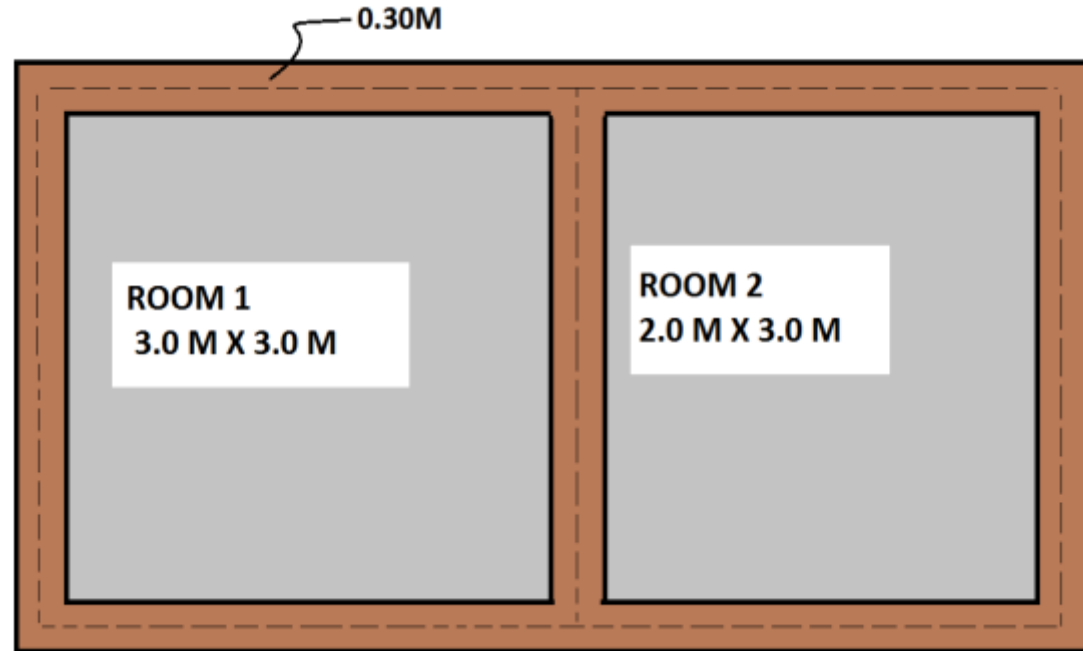


$s(\text{H}) =$ sum of C.L of horizontal walls

$s(\text{V}) =$ sum of C.L of vertical walls

Center line calculation

$$\text{C.L} = s(\text{H}) + s(\text{V})$$



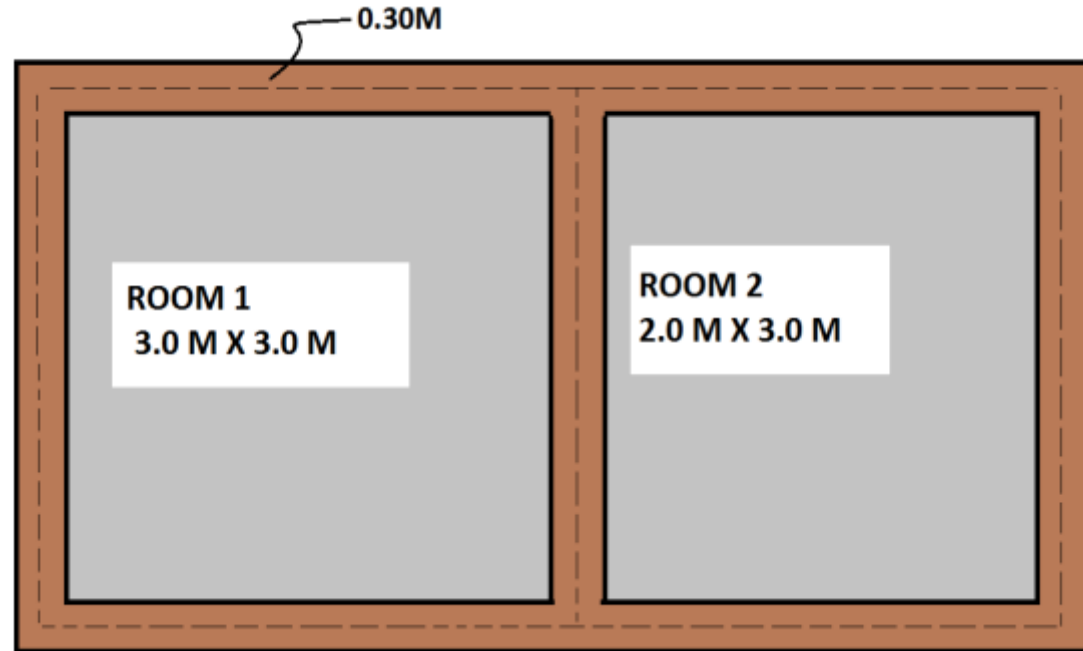
$$s(\text{H}) = (0.15 + 3 + 0.3 + 2 + 0.3) = 5.6$$

Now; No of walls are 2

$$\text{So } 5.6 \times 2 = 11.2\text{m}$$

Center line calculation

$$\mathbf{C.L = s(H) + s(V)}$$



$$\mathbf{s(V) = (0.15 + 3 + 0.15) = 3.3m}$$

Now; No of walls are 3

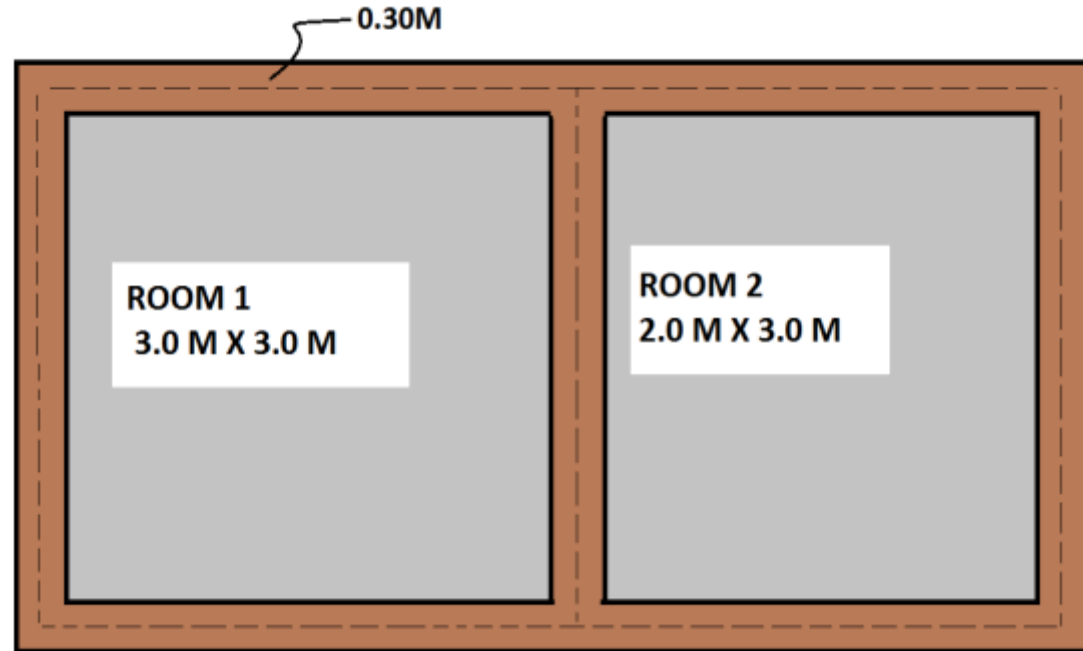
$$\mathbf{So 3.3 \times 3 = 9.9m}$$

Center line calculation

$$\text{C.L} = s(\text{H}) + s(\text{V})$$

$$\text{C.L} = 11.2 + 9.9$$

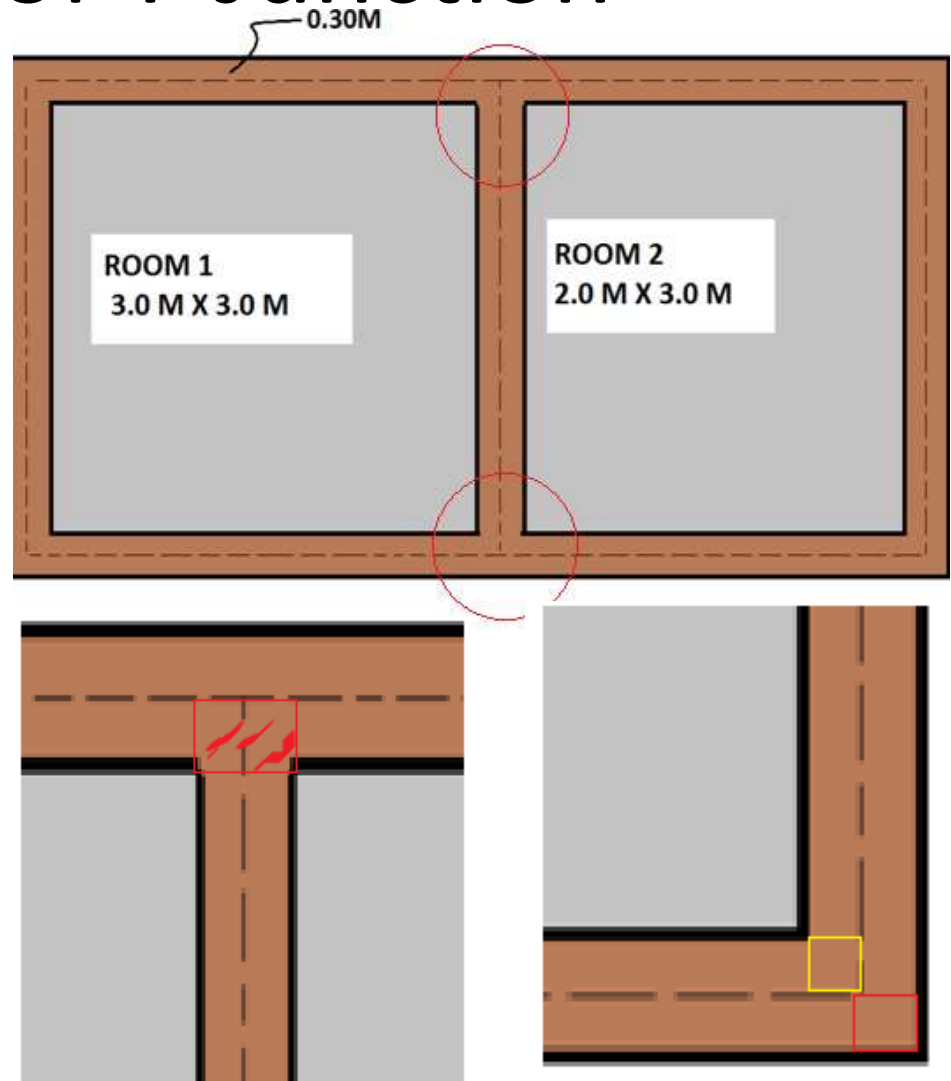
$$\underline{\text{C.L} = 21.10 \text{ m}}$$



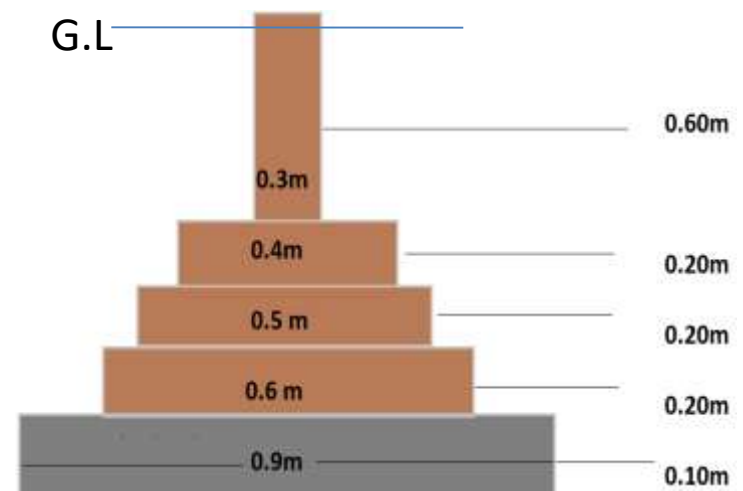
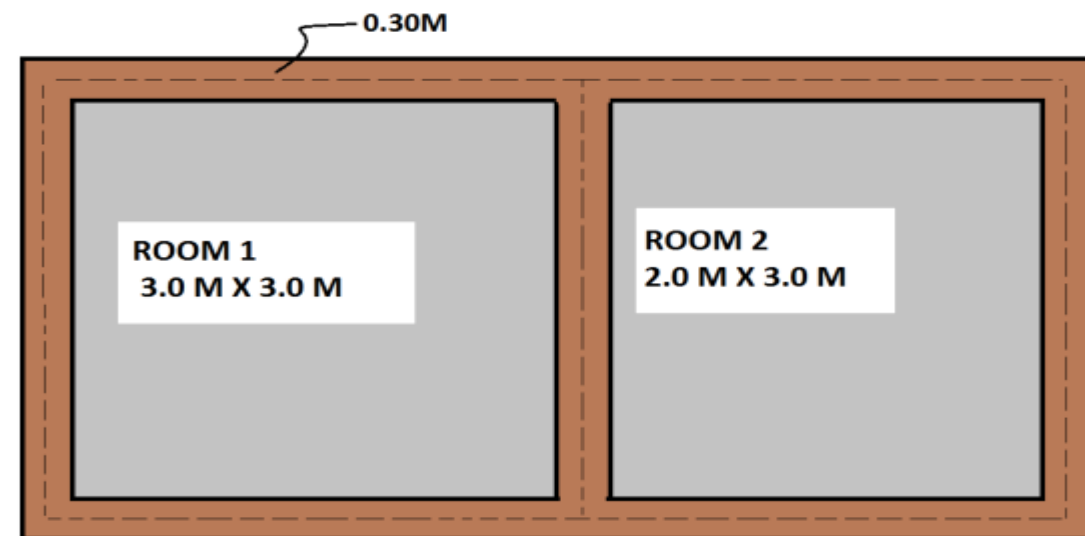
Deduction of T-Junction

Length =

C.L - (breath/2) x no of T-Junction



S.No	Description	L	B	H	Q	REMARKS
1.	Excavation for foundation	20.20	0.9	1.3	23.63	L=C.L - (breath/2) x no of T-Junction L= 21.10-(0.9/2) X 2 = 20.20m
2.	PCC IN FOUNDATION	20.20	0.9	0.10	1.81	L=C.L - (breath/2) x no of T-Junction L= 21.10-(0.9/2) X 2 = 20.20m
3.	BRICK IN FOUNDATION					
	STEP 1	20.05	0.6	0.2	2.46	L=C.L - (breath/2) x no of T-Junction L= 21.10-(0.6/2) X 2 = 20.05m
	STEP 2	20.06	0.5	0.2	2.06	L=C.L - (breath/2) x no of T-Junction L= 21.10-(0.5/2) X 2 = 20.06m
	STEP 3	20.07	0.4	0.2	1.66	L=C.L - (breath/2) x no of T-Junction L= 21.10-(0.4/2) X 2 = 20.7m
	STEP 4	20.08	0.3	0.6	3.77	L=C.L - (breath/2) x no of T-Junction L= 21.10-(0.3/2) X 2 = 20.08m
TOTAL BRICK WORK QUANTITY					9.95 CUBIC METER	



THE END

