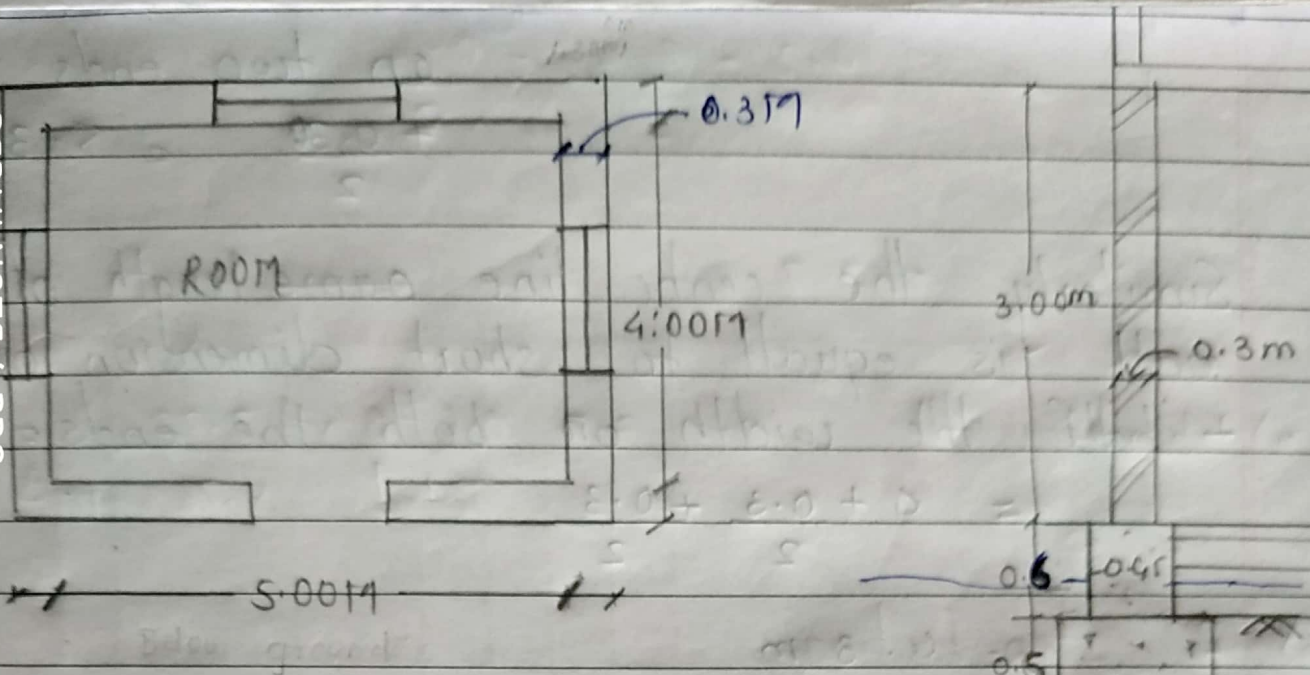


Assignment No. 4

REDMI NOTE 6 PRO
MI DUAL CAMERA



$$D = 1 \times \frac{2.1}{2} M$$

$$W = 1.5 \times 1.2 M$$

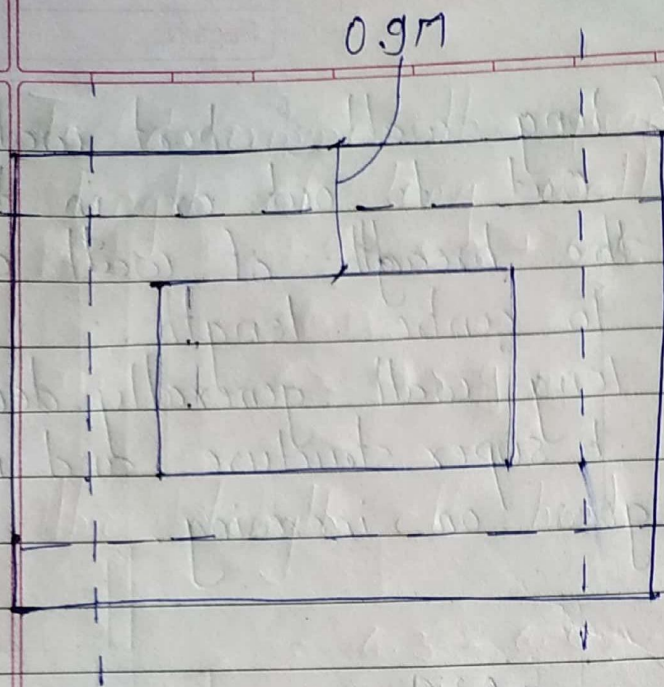


Fig. show a plan of room
5 x 4 m with wall thick
0.30 m

Let us draw the centre
line for super structure
the ^{centre} length of long wall
is equal to length of
room + half the widths
on two ends i.e. $5 + \frac{0.30}{2}$
 $+ \frac{0.30}{2} = 5.3 \text{ m}$

Similarly the centre line ~~same~~ length of short
wall is equal to short dimension of room
+ half the width on both the ends =

$$= 4 + \frac{0.3}{2} + \frac{0.3}{2}$$

$$= 4.3 \text{ m}$$

To determine the quantity of earth work
let us calculate the length of long wall
and length of short wall

The length of long wall for excavation = $5.3 + 0.9$
 $= 6.2 \text{ m}$

length of short wall for excavation = $4.3 - 0.9$
the excavation width on each side,

$$= 4.3 - 0.9$$

$$= 3.4 \text{ m}$$

① Measurement sheet -

S.No.	Particulars of item	No.	L	B	H	Q	Explanation
1.	Earth Work excavation for foundation						
a)	Long walls	2	6.2	0.9	0.7	7.812	$L = 5.3 + 0.45 + 0.45$ $D = 0.2 + 0.5 + 0.47$ $L = 4.3 - 0.45 - 0.45 = 3.4$
b)	Short wall	2	3.4	0.9	0.7	4.284	
						Total	12.096 m ³
2)	Cement concrete bed for found.						
a)	Long wall	2	6.2	0.9	0.2	2.232	
b)	Short wall	2	3.4	0.9	0.2	1.224	
						Total	3.456 m ³
3)	To & R.R masonry in CM						
a)	1 st step footing						
i)	Long wall	2	5.9	0.6	0.5	3.54	$L = 5.3 + 0.3 + 0.3 = 5.9$ $L = 4.3 - 0.3 - 0.3 = 3.7$

To determine the quantity of first step the length of long wall for 1st footing =

$$= 5.3 + \frac{0.6}{2} + \frac{0.6}{2}$$

$$= 5.9 \text{ m}$$

the length of short wall 1st footing =

$$= 4.3 - \frac{0.6}{2} - \frac{0.6}{2}$$

$$= 3.7 \text{ m}$$

ii) Short wall	2	3.7	0.6	0.5	2.22	
Total					5.76	m ³

b) 2nd step footing

i) Long wall	2	5.75	0.45	0.6	3.105	$L = 5.3 + \frac{0.45}{2} + \frac{0.6}{2}$
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ii) Short wall	2	3.85	0.45	0.6	2.079	$L = 4.3 - 0.225 - 0.225$
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Total					5.185	m ³
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Total R.C.C. total	5.76	
masonry for	5.185	
1 st step & 2 nd	<u>14.051</u>	m ³
step	10.945	m ³

(5) R.C.C. Slab	1	5.6	4.6	0.15	3.86	cum
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(6) Murrum Filling	1	4.4	3.4	0.6	7.48	cum
					5.3	
					0.9	
					4.4	

(7)						4.3
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No	Particular item	No	L	B	H	Q	Explanation
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To determine quantity of brickwork

length of ^{1st wall} long step for brick work,

$$= 5.3 + \frac{0.3}{2} + \frac{0.3}{2} = 5.6 \text{ m}$$

length short wall

$$= 4.3 - \frac{0.3}{2} - \frac{0.3}{2}$$

$$= 4.0 \text{ m}$$

long wall	2	5.6	0.3	0.3	10.08	$L = 5.3 + 0.15 + 0.15$ $L = 4.3 + 0.15 - 0.15$
short wall	2	4.0	0.3	3.0	7.2	

Total 17.28 m³

Reduction for
doors or window

Doors	1	1.0	0.3	2.1	0.63	$L = 1 \times 0.6$
Window	3	1.5	0.3	1.2	1.62	

Total = 2.25 m³

15.03 m³

Reduction

for door	1	1.0	2.1	-	2.1
w.	3	1.5	1.2	-	5.4
					7.5
					50%
					3.75