

11 D
CODE : 4013

SCORING INDICATORS

- / -
VERSION C

Q.N.No.	SCORING INDICATORS	SPLIT SCORE	TOTAL SCORE
PART-A			
I. 1	(1) Preliminary or Approximate estimate.		
	(2) Rough cost estimate based on plinth area.	2	
	(3) Rough cost estimate based on cubic contents.		
	(4) Detailed estimate.		
	(5) Annual repair estimate.		
	(6) Special repair estimate.	2	
	(7) Revised estimate		
	(8) Supplementary estimate. (Any four)	2	
2	Lead: average horizontal distance between the centre of excavation to the centre of deposition. The unit of lead is 50m.	2	
	Lift : average height through which the earth has to be lifted from source to the place of spreading or heaping.	2	
3	$\frac{L}{2} [(A_1 + A_n) + 2(A_2 + A_3 + \dots + A_{n-1})]$	2	10
4	Length=0.01m,area=0.01 sq.m,volume=0.01cum		
5	Overhead charges: To meet expenses of office rent, depreciation of equipment salaries of staff postage- amount of 4% of estimate cost is allocated.		
PART-B			
II) 1	In order to keep building and roads in perfect condition, annual repairs carried out . (i) In case of a building		
	-white washing, oiling and painting of doors and windows, cement plaster repairs (inside & outside), repairs of floors etc.		
	In no case this annual repair amount should increase more that 11/2% to 2% of the capital cost of the building.		
	(ii) In case of a road- filling patches, maintenance of berms etc.		
	Supplementary Estimate This is fresh detailed estimate in addition to the original sanctioned estimate		
	- prepared for additional works to supplement the original works.		
	- The abstack of cost show the amount of the original sanctioned estimate as well as the supplementary amount of the original sanctioned estimate as well as the supplementary amount for which sanction is required.	6	6

2

$$A = bd + nd^2$$

$$A_1 = bd_1 + nd_1^2 = 10 \times 1.25 + 2 \times 1.25^2 = 15.625 \text{ m}^2$$

$$A_2 = bd_2 + nd_2^2 = 10 \times 1.10 + 2 \times 1.10^2 = 13.42 \text{ m}^2$$

$$A_3 = 10 \times 1.15 + 2 \times 1.15^2 = 14.145 \text{ m}^2$$

$$A_4 = 10 \times 1.2 + 2 \times 1.2^2 = 14.88 \text{ m}^2$$

$$A_5 = 10 \times 1.0 + 2 \times 1^2 = 12.0 \text{ m}^2,$$

$$A_6 = 10 \times 1.1 + 2 \times 1.1^2 = 13.42 \text{ m}^2$$

$$A_7 = 10 \times 1.15 + 2 \times 1.15^2 = 14.145 \text{ m}^2$$

By Prismoidal rule

$$v = \frac{L}{3} [(A_1 + A_n) + 4(\text{even Areas}) + 2(\text{Odd Areas})]$$

$$= \frac{L}{3} [(A_1 + A_7) + 4(A_2 + A_4 + A_6) + 2(A_3 + A_5)]$$

$$= \frac{50}{3} [(15.625 + 14.145) + 4(13.42 + 14.88 + 13.42) + 2(14.145 + 12)]$$

$$= 4149 \text{ m}^3$$

3

Centre line method

-suitable only if the offsets are symmetrical and the building is more or less rectangular in shape.

-The centre line of the building determined carefully after doing deductions for repeated measurements.

-This centre line acts as length for the complete calculations of the estimate.

If the deduction is not cared for the results of estimates may be wrong.

All the walls should have the same section.

Long wall-short wall method:

-the wall along the length of room is considered to be long wall while the wall perpendicular to long wall is short wall.

To get the length of long wall or short wall, calculate first the centre line lengths of individual walls.

-length of long wall, (out to out) - adding half breadth at each end to its centre line length.

-length of short wall measured into in - deducting half breadth from its centre line length at each end.

3

3

6

3

3

6

4 Quantity of earth work in embankment= $(Bd+sd^2) \times L =$
 $= (10 \times 1.5) + 2 \times 1.5^2 \times 1000$
 $= 19500 \text{ m}^3$

Area of temporary land $= 19500/0.30$
 $= 65000 \text{ m}^2$

Width of temporary land $= \text{Area}/\text{length}$
 $= 65000/1000$

On either side $= 65\text{m}$
 $= 65/2$
 $= 32.5\text{m}$

- 5 Rates of particular item of work depend on the following.
1. Specifications of works and material about their quality, proportion and constructional operation method.
 2. Quantity of materials and their costs.
 3. Cost of labours and their wages.
 4. Location of site of work and the distances from source and conveyance charges.
 5. Overhead and establishment charges
 6. Profit

6

Sl.N o.	description of work	N o.	length in m	Breadth in m	Heigh/dept h in m	Quantity
1	R.C.C work					
	floor	1	4.3	2.8	0.2	2.408
	walls	1	11.8	0.2	3	7.080
	haunch	1	9.8(1/2*0.3*0.3)			0.441
total						9.929 m ³

7 The distance between the source of availability of material and construction site is expected in Km.
 The cost of conveyance of material depends on lead.
 This statement will give the total cost of materials per unit item.
 It includes first cost, conveyance loading, unloading stacking, charges etc.

Form of conveyance statement

S.No.	Materials	Cost at Source Rs. -- Ps.	Per	Lead in Km	Conveyance Charges per km
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2
1
2
1
1x6
2
2
2
6

III)

PART-C

a)

Plinth area = 800m².

Plinth area rate = Rs. 4500 per Sqm.

∴ Cost of building = 800 x 4500 = Rs. 36,00,000=00

Add the cost of the water supply charges @7½%

$$= \frac{36,00,000 \times 7.5}{100} = 2,70,000 = 00$$

Add the Cost of Sanitary and electrical installation @ 15%

$$= \frac{36,00,000 \times 15}{100} = 5,40,000 = 00$$

Add the cost of archetectural features @1%

$$= \frac{36,00,000 \times 1}{100} = 36,000 = 00$$

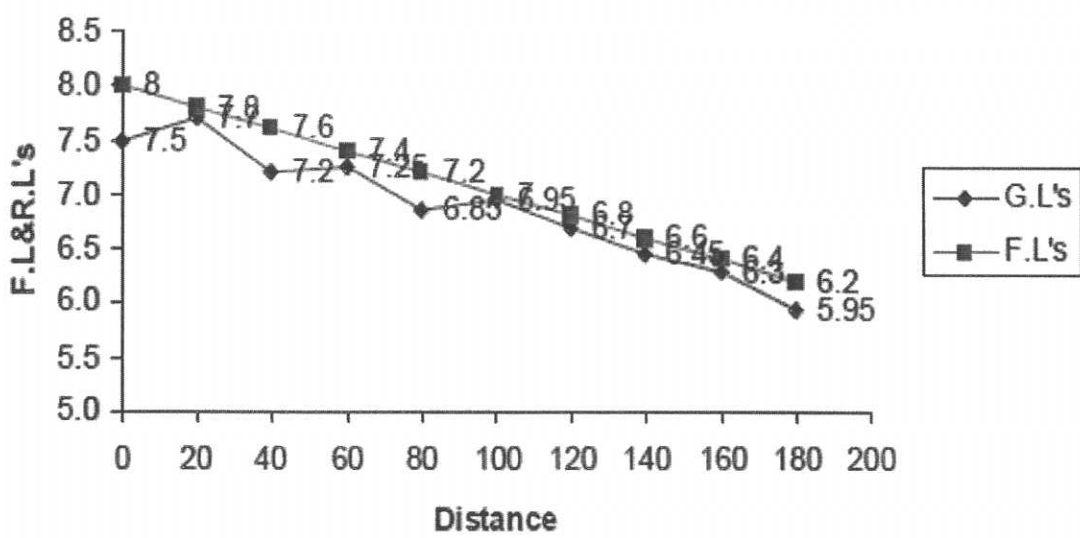
Add the cost of Roads Lawns @ 5% = $\frac{36,00,000 \times 5}{100} = 1,80,000 = 00$

Add the Cost of P.S. and contingencies @ 4%
 $= \frac{36,00,000 \times 4}{100} = 1,44,000 = 00$

Total Rs. 47,70,000=00

b)

C/S.OF ROAD LEVEL'S



1
1
1
1
1
1
1
2

b=12m n=5

Chainage	Distance	Reduced level	Formation Level	Depth(d) of		Area of	
				Embankment	Cutting	Embankment bd+nd ²	Cutting
0	0	7.50	8.0	0.50		6.375	
1	20	7.70	7.8	0.10		1.275	
2	40	7.50	7.6	0.10		1.215	
3	60	7.25	7.4	0.15		1.839	
4	80	6.85	7.2	0.35		4.38	
5	100	6.95	7.0	0.05		0.63	
6	120	6.70	6.8	0.10		1.215	
7	140	6.45	6.6	0.15		1.837	
8	160	6.30	6.4	0.10		1.215	
9	180	5.95	6.2	0.25		3.09	

Trapezoidal formula :

$$V = L \left[\left(\frac{A_1 + A_n}{2} \right) + (A_2 + A_3 + \dots + A_{n-1}) \right]$$

$$= 20 \left[\left(\frac{6.375 + 3.09}{2} \right) + (1.215 + 1.215 + 1.837 + 4.38 + 0.63 + 1.215 + 1.837 + 1.215) \right]$$

$$= 365.53m^3$$

a)

Cubical content = No. of storeys (Plinth Area x height of each storey)
 = 3(500x3.5) = 5250m³
 Structural cost = Cubical content x cubical content rate
 = 5250 x 1000 = 52.5 Lakhs

a) Water supply and sanitation = 52.5x8/100 = Rs.4.2 Lakhs
 b) Electrification = 52.5 x 6/100 = Rs.3.15 lakhs

Total = Rs.7.35lakhs
Structural cost = Rs. 52.500 Lakhs

Total = Rs. 58.850 Lakhs
 Add contractors profit = Rs. 5.885 Lakhs
 Total cost = Rs. 64.735 Lakhs

iv)

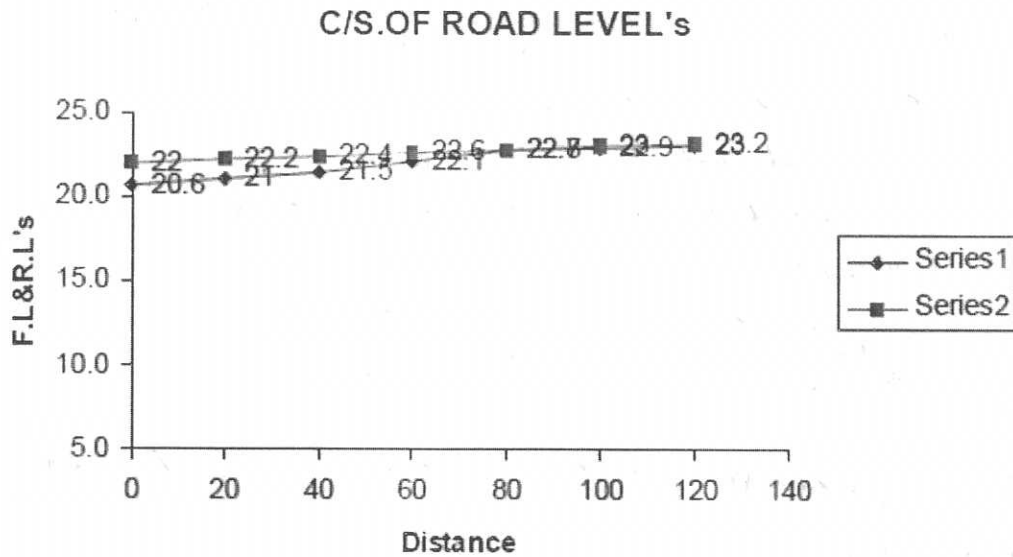
5
1
1
1
1
1
1
1
1
1
1

7

8

iv)

b)



Chainage Distance	Reduced level	Formation Level	Depth (d) of		Area of	
			Embarkment	Cutting	Embarkment	Cutting
0	20.6	22.0	1.40		19.74	
20	21.0	22.2	1.20		16.56	
40	21.5	22.4	0.90		12.01	
60	22.1	22.6	0.50		6.375	
80	22.7	22.8	0.10		1.215	
100	22.9	23.0	0.10		1.215	
120	23.0	23.2	0.20		2.460	

Prismoidal formula

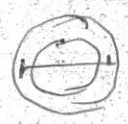
$$\begin{aligned}
 V &= \frac{L}{3} [(A_1 + A_n) + 4(\text{even Areas}) + 2(\text{Odd Areas})] \\
 &= \frac{20}{3} [(19.74 + 2.46) + 4(16.56 + 6.325 + 1.2 + 5) + 2(12.01 + 1.215)] \\
 &= 968.33\text{m}^3
 \end{aligned}$$

SL NO.	Description of Item	NO	L in m	B in m	H/D in m	Qty.		
v) a) P.C.C								
1.	Wall all roomy	1	35.00	0.80	0.15			
	" bet. Hall & bed	1	3.60	0.80	0.15		3	
	" " bed & kitchen	1	2.40	0.80	0.15			
	" " bed & Dining	1	5.90	0.80	0.15		3	
	" " Toilet	1	1.20	0.80	0.15			
	" " Dining & Toilet	1	3.00	0.80	0.15		1	
	<u>Bay Centre Line</u>							
	Total length							
	54.70 - 1/2 x 9 x 0.80	1	51.10	0.80	0.15	6.132 m ³		7
(b) Brick work								
	Wall all roomy	1	35.00	0.20	3.00			
	" between Hall & bed	1	4.00	0.20	3.00			
	" " bed & kitchen	1	6.5	0.20	3.00			
	" " bed & Dining	1	3.00	0.20	3.00			
	" " Dining & Toilet	1	3.60	0.20	3.00			
	" " Toilet	1	1.80	0.20	3.00			
	<u>Bay Centre Line</u>							
	54.70 - 1/2 x 9 x 0.20	1	53.80	0.20	3.00	32.28 m ³	4	
<u>Deduction</u>								
Doors	D1	2	1.00	0.20	2.10	0.924		
	D2	2	1.00	0.20	2.10	0.840		
	D3	2	0.90	0.20	2.10	0.756		
Windows	W1	5	1.50	0.20	1.50	2.250		
	W2	1	1.50	0.20	1.00	0.300		
Ventilator	V	1	1.00	0.20	0.50	0.100		
Lintel		1	51.10	0.20	0.15	1.533		
						6.403 m ³	3	
						25.477 m ³	1	8
						Net Qty		

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VI	a) Continuum																																																																																																																																																																																																																																			
	<table border="1"> <thead> <tr> <th>SL No.</th> <th>Description of work</th> <th>No.</th> <th>L in m</th> <th>B in m</th> <th>H/D in m</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td></td> <td>Contd. ...</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Parapet wall External</td> <td>1</td> <td>(10.90 + 7.40) / 2</td> <td>0.72</td> <td></td> <td>26.35</td> </tr> <tr> <td></td> <td>" Internal</td> <td>1</td> <td>(10.70 + 7.20) / 2</td> <td>0.60</td> <td></td> <td>15.06</td> </tr> <tr> <td></td> <td>" Top</td> <td>1</td> <td>(10.80 + 7.30) / 2</td> <td>0.10</td> <td></td> <td>3.62</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>Total</u> 363.63 m²</td> </tr> <tr> <td></td> <td><u>Deductions</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Doors D₁</td> <td>2</td> <td>1.10</td> <td>2.10</td> <td></td> <td>4.62</td> </tr> <tr> <td></td> <td>D₂</td> <td>2</td> <td>1.00</td> <td>2.10</td> <td></td> <td>4.20</td> </tr> <tr> <td></td> <td>D₃</td> <td>2</td> <td>0.90</td> <td>2.10</td> <td></td> <td>3.72</td> </tr> <tr> <td></td> <td>Windows W₁</td> <td>5</td> <td>1.50</td> <td>1.50</td> <td></td> <td>11.25</td> </tr> <tr> <td></td> <td>W₂</td> <td>1</td> <td>1.50</td> <td>1.50</td> <td></td> <td>1.50</td> </tr> <tr> <td></td> <td>V</td> <td>1</td> <td>1.00</td> <td>0.50</td> <td></td> <td>0.50</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>Total</u> 25.79 m²</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>Net</u> 337.84 m²</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> </tr> <tr> <td rowspan="2">VII</td> <td>(b) i) Stone grit</td> <td>1</td> <td>2000 x 3.70 x 1.35</td> <td></td> <td></td> <td>100 m³</td> <td>3</td> </tr> <tr> <td>ii) Binding Terr</td> <td>1</td> <td>2000 x 3.70</td> <td></td> <td></td> <td>14800 kg</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td> </tr> <tr> <td rowspan="10">VIII</td> <td>a) Roof work for shelter</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Doors D₁</td> <td>2</td> <td>0.908</td> <td>2.057</td> <td>2.057</td> <td>4.03 m²</td> <td></td> </tr> <tr> <td>D₂</td> <td>2</td> <td>0.88</td> <td>—</td> <td>2.057</td> <td>3.62 m²</td> <td></td> </tr> <tr> <td>D₃</td> <td>2</td> <td>0.78</td> <td>—</td> <td>2.057</td> <td>2.21</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>Total</u> 6.83 m²</td> <td></td> </tr> <tr> <td>Windows W₁</td> <td>5</td> <td>1.29</td> <td>—</td> <td>1.38</td> <td>8.90</td> <td></td> </tr> <tr> <td>W₂</td> <td>1</td> <td>1.29</td> <td>—</td> <td>0.88</td> <td>1.19</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>Total</u> 20.04 m²</td> <td></td> </tr> <tr> <td>b) Brick work for well</td> <td>1</td> <td>(1 x 2.30)</td> <td>0.30</td> <td>14.60</td> <td>31.63 m³</td> <td>7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>Total</u> 31.63 m³</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> </tbody> </table>	SL No.	Description of work	No.	L in m	B in m	H/D in m	Qty		Contd. ...							Parapet wall External	1	(10.90 + 7.40) / 2	0.72		26.35		" Internal	1	(10.70 + 7.20) / 2	0.60		15.06		" Top	1	(10.80 + 7.30) / 2	0.10		3.62							<u>Total</u> 363.63 m ²		<u>Deductions</u>							Doors D ₁	2	1.10	2.10		4.62		D ₂	2	1.00	2.10		4.20		D ₃	2	0.90	2.10		3.72		Windows W ₁	5	1.50	1.50		11.25		W ₂	1	1.50	1.50		1.50		V	1	1.00	0.50		0.50							<u>Total</u> 25.79 m ²							<u>Net</u> 337.84 m ²							3							3							9	VII	(b) i) Stone grit	1	2000 x 3.70 x 1.35			100 m ³	3	ii) Binding Terr	1	2000 x 3.70			14800 kg	3								6	VIII	a) Roof work for shelter							Doors D ₁	2	0.908	2.057	2.057	4.03 m ²		D ₂	2	0.88	—	2.057	3.62 m ²		D ₃	2	0.78	—	2.057	2.21	4						<u>Total</u> 6.83 m ²		Windows W ₁	5	1.29	—	1.38	8.90		W ₂	1	1.29	—	0.88	1.19	4						<u>Total</u> 20.04 m ²		b) Brick work for well	1	(1 x 2.30)	0.30	14.60	31.63 m ³	7						<u>Total</u> 31.63 m ³								7
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Qn. No.	Scoring Indicators	Split score	Total score				
VI	a) RR masonry						
	SL No. Description of work	No	L m cm	B m cm	H/D m m.	Qty.	
	1. RR masonry for foundation						
	well bet ⁿ all rooms	1	35.00	0.60	0.60		
	" bet ⁿ Hall & bed	1	3.80	0.60	0.60		
	" " bed & kitchen	1	6.10	0.60	0.60		
	" " bed & Dining	1	2.60	0.60	0.60		
	" " Dining & Toilet	1	3.20	0.60	0.60		
	" " Toilets	1	1.40	0.60	0.60		
	By centre line method						
	54.70 - ($\frac{1}{2} \times 9 \times 0.60$)	1	52.10	0.60	0.60	18.79 m ³	3
	Basement						
	well all rooms	1	35.00	0.45	0.45		
	" bet ⁿ Hall & bed	1	3.95	0.45	0.45		
	" bed & kitchen	1	6.25	0.45	0.45		
" bed & Dining	1	2.75	0.45	0.45			
" Dining & Toilet	1	2.15	0.45	0.45			
" " Toilets	1	1.55	0.45	0.45			
By centre line method							
54.70 - ($\frac{1}{2} \times 9 \times 0.45$)	1	52.68	0.45	0.45	10.67 m ³	3	
					29.46 m ³	1	
						7	
b)	Roof Slab						
	op to Hall	1	10.90	4.00	0.12	5.237	2
	Beyond Hall	1	7.10	2.70	0.12	2.300	2
	Lintel	1	51.10	0.20	0.15	1.593	2
						9.065 m ³	2
VII	a) Internal plastering						
	Hall	1	(3.60 + 4.20) 2		3.00	46.80	
	Room	1	(3.60 + 3.00) 2		3.00	39.60	
	Kitchen	1	(2.70 + 3.00) 2		3.00	34.20	
	Dining	1	(4.50 + 3.60) 2		3.00	48.60	
	Toilets	2	(1.80 + 1.70) 2		3.00	42.00	3
	External plastering						
	well all rooms	1	(10.70 + 7.20) 2		3.00	107.40	
							8

Code :

Version:

Qn. No.	Scoring Indicators	Split score	Total score																								
X (a)	<p>Contd. -</p> <p>Abstract of Estimate form</p> <table border="1" data-bbox="199 414 1212 784"> <thead> <tr> <th>Item No</th> <th>Description</th> <th>Qty</th> <th>Unit</th> <th>Rate</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Item No	Description	Qty	Unit	Rate	Amount																			3	6
Item No	Description	Qty	Unit	Rate	Amount																						
X (b)	<p><u>Materials</u></p> <p>40 mm aggregate $0.92 \text{ m}^3 \times 700/\text{m}^3 = 644.00$</p> <p>Cement $0.115 \text{ cum} @ \text{Rs } 8000/\text{ton} = 1328.00$</p> <p>Sand $0.46 \text{ cum} @ \text{Rs } 1000/\text{m}^3 = 460.00$</p> <p><u>Labour</u></p> <p>Mason @ 0.20 @ 850/h/day = 170.00</p> <p>Men 1.80 @ 750/h/day = 1350.00</p> <p>Woman 1.40 @ 700/h/day = 980.00</p> <p><u>Add conveyance</u></p> <p>40 mm aggregate $0.92 \times 12 \times 12 = 132.48$</p> <p>Sand $0.46 \times 14 \times 15 = 96.60$</p> <p>Add CP 5% $\text{RM} = 5161.08$ 516.0</p> <p><u>Say Rs 5162/m</u> 5677.8</p> <p><u>Say Rs 5678/m³</u></p>	1 1 1 1 1 1 1 1 1 1	9																								

Code :

Version:

Qn. No.	Scoring Indicators	Split score	Total score																																																				
IX	<p>a) <u>OS</u></p> <p>i) <u>Standard Data book</u> - prepared by Govt. agencies - includes requirement analysis - includes rates of different items, from out. - used for the preparation of rates</p> <p>ii) - It is a list of rates of different items of work - serves as a guide for setting rates</p> <p>iii) Cost of material at site is calculated by adding conveyance charge to cost at source.</p> <p>b) <u>Materials</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Stone</td> <td style="width: 35%;">1.25 m³ @ 700/m³</td> <td style="width: 20%;">= 875.00</td> <td style="width: 10%; text-align: center;">1</td> </tr> <tr> <td>Cement</td> <td>105 kg @ 800/ton</td> <td>= 840.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Sand</td> <td>0.42 m³ @ 1200/m³</td> <td>= 504.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="4"><u>Labour</u></td> </tr> <tr> <td>Manon</td> <td>1.3 @ Rs 850/head/day</td> <td>= 1105.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Men</td> <td>1.40 @ Rs 750/head/day</td> <td>= 1050.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Women</td> <td>1.40 @ Rs 700/head/day</td> <td>= 980.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="4"><u>Add conveyance charge</u></td> </tr> <tr> <td></td> <td>Stone 1.25 x 18 x 12</td> <td>= 270.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td></td> <td style="border-top: 1px solid black;">56.24.00</td> <td></td> </tr> <tr> <td></td> <td><u>Add CP @ 1%</u></td> <td>562.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td></td> <td style="border-top: 1px solid black; border-bottom: 3px double black;">6186.00</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td><u>Say 6190/m³</u></td> <td></td> <td></td> </tr> </table>	Stone	1.25 m ³ @ 700/m ³	= 875.00	1	Cement	105 kg @ 800/ton	= 840.00	1	Sand	0.42 m ³ @ 1200/m ³	= 504.00	1	<u>Labour</u>				Manon	1.3 @ Rs 850/head/day	= 1105.00	1	Men	1.40 @ Rs 750/head/day	= 1050.00	1	Women	1.40 @ Rs 700/head/day	= 980.00	1	<u>Add conveyance charge</u>					Stone 1.25 x 18 x 12	= 270.00	1			56.24.00			<u>Add CP @ 1%</u>	562.00	1			6186.00	1		<u>Say 6190/m³</u>			<p>2</p> <p>2</p> <p>2</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>6</p> <p>9</p>
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