

# Model Estimate

**Name of scheme**: Construction of Community Hall under  
13th Finance Commission

Estimated Amount : Rs. 8,00,000.00  
(Rupees Eight Lakh) only

Name of work : Construction of Community Hall under 13<sup>th</sup>  
Finance Commission Award  
Estimated cost : Rs. 8.00 Lakh (Rupees Eight Lakh) only

## **REPORT**

**Necessity:** To strengthen the infrastructure at the Gaon Panchayat level, the Government has released ₹ 8.00 Lakhs under 13<sup>th</sup> Finance Commission Award. Accordingly a Model Estimate for Construction of Community Hall at Gaon Panchayat Level has been prepared to serve the following purposes.

- Enabling Meetings, Assemblies, Gaon Sabhas
- Enabling social audits
- Training and Capacity Building

**Provision:** The major functional elements considered for Community Hall at Gaon Panchayat level are as follows:

- Meeting / Training hall
- Office space
- Toilet for male & female

**SoR followed:** The estimate has been prepared on the basis of APWD(Building) SoR/2010-11 to arrive at the probable cost of the proposed construction of Community Hall. However, 10% Contractors' Profit has been deducted as per norms.

**Services considered:** The following services has been considered.

- Sanitary Installation.
- Internal Electrification.
- HTW for water facility.

The work is to be executed as per APWD specifications and Rural Development norms currently being followed in the state of Assam.

### Detail estimate for construction of Community Hall

(The estimate has been prepared on the basis of APWD(Building) Schedule of Rates for the year 2010-11)

Sl. No.	Description of works	Unit	Qty	Rate(Rs.)	Amount(Rs.)
1	2	3	4	5	6
1/1.1	<p>Earthwork in excavation for foundation trenches of wall, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling ) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.</p> <p>(i) Up to a depth of 2.0m below the existing ground level. (a) In ordinary soil</p> <p>Footing      23    x   1.20    x   1.20    x   1.20    =    39.74 m<sup>3</sup></p>	m <sup>3</sup>	39.74	64.67	2569.99
2/1.3	<p>Earth/sand filling in plinth in layer not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified, including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.</p> <p>(c) With river sand or silt ( predominantly non-plastic ) obtained by truck carriage including loading and unloading.</p> <p>Plinth filling</p> <p style="padding-left: 40px;">1    x   8.50    x   9.10    x   0.60    =    46.410 m<sup>3</sup></p> <p style="padding-left: 40px;">1    x   1.50    x   3.60    x   0.60    =    3.240 m<sup>3</sup></p> <p>Ramp      0.5    x   2.75    x   1.50    x   0.60    =    1.238 m<sup>3</sup></p> <p style="text-align: right; padding-right: 20px;"><u>50.89 m<sup>3</sup></u></p>	m <sup>3</sup>	50.89	322.75	16424.75
3/4.1.1	<p>Providing soling in foundation and under floor at all levels with/best quality jhamma bricks , sand packed and laid to level and in panel after preparing sub-grade as directed including all labour and materials complete.</p> <p>(a) Brick flat soling :</p> <p>Footing                      23    x   1.200    x   1.200    =    33.12 m<sup>2</sup></p> <p>Floor                            1    x   8.50    x   9.10    =    77.35 m<sup>2</sup></p> <p style="padding-left: 40px;">1    x   1.50    x   3.60    =    5.40 m<sup>2</sup></p> <p>Ramp                            1    x   1.50    x   3.50    =    5.25 m<sup>2</sup></p> <p style="text-align: right; padding-right: 20px;"><u>121.12 m<sup>2</sup></u></p>	m <sup>2</sup>	121.12	286.37	34685.13
4/2.1.1	<p>Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing , steps , walls , brickworks etc. as directed and specified including curing complete. (Shuttering where necessary will be measured and paid separately.)</p> <p>(a) In prop 1:3:6</p> <p>Footing      23    x   1.20    x   1.20    x   0.075    =    2.48 m<sup>3</sup></p>	m <sup>3</sup>	2.48	3733.63	9259.40
6/2.2.1	<p>Providing and laying plain/reinforced cement concrete works cement with coarse sand &amp; 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)</p> <p>I) Using mixture machine A) In substructure up to plinth level</p>				

1	2	3	4	5	6
	<p>Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level a) <b>M15 or Prop. 1:2:4</b></p> <p>Footing    23   x   1.20   x   1.20   x   0.150   =   4.97 m<sup>3</sup>                   20   x   <math>\frac{1.20^2 + 0.25^2}{2}</math>   x   0.150   =   2.25 m<sup>3</sup></p> <p>Column      23   x   0.25   x   0.25   x   0.750   =   1.08 m<sup>3</sup>                   23   x   0.25   x   0.25   x   0.300   =   0.43 m<sup>3</sup></p> <p>Tie beam    3   x   8.50   x   0.25   x   0.300   =   1.91 m<sup>3</sup>                   2   x   9.10   x   0.25   x   0.300   =   1.37 m<sup>3</sup>                   4   x   3.60   x   0.25   x   0.300   =   1.08 m<sup>3</sup>                   1   x   3.00   x   0.25   x   0.300   =   0.23 m<sup>3</sup>                   2   x   1.50   x   0.25   x   0.300   =   0.23 m<sup>3</sup></p> <p style="text-align: right;">13.54 m<sup>3</sup></p>				
	<p><b>(B) In super structure from plinth level upto 1st floor level</b> (ii) Columns, Pillars, Posts, Struts, suspended floors, roof, landing shelf and support, balcony, lintel sill band, Beam, girder, bressumer, cantilever, staircase including top surface and finishing of nosing a) <b>M15 or Prop. 1:2:4</b></p> <p>Column      20   x   0.13   x   0.13   x   3.15   =   1.06 m<sup>3</sup>                   3   x   3.14   x   0.10<sup>2</sup>   x   3.15   =   0.30 m<sup>3</sup></p> <p>Lintel        3   x   8.50   x   0.130   x   0.200   =   0.66 m<sup>3</sup>                   2   x   9.10   x   0.130   x   0.200   =   0.47 m<sup>3</sup>                   3   x   3.60   x   0.130   x   0.200   =   0.28 m<sup>3</sup>                   1   x   3.00   x   0.130   x   0.200   =   0.08 m<sup>3</sup>                   2   x   1.50   x   0.130   x   0.200   =   0.08 m<sup>3</sup></p> <p>Post Plate beam                   3   x   8.50   x   0.130   x   0.150   =   0.50 m<sup>3</sup>                   2   x   9.10   x   0.130   x   0.150   =   0.35 m<sup>3</sup>                   2   x   1.50   x   0.130   x   0.150   =   0.06 m<sup>3</sup>                   1   x   3.60   x   0.130   x   0.150   =   0.07 m<sup>3</sup></p> <p>Chajja                   2   x   8.50   x   0.450   x   0.075   =   0.57 m<sup>3</sup>                   2   x   9.10   x   0.450   x   0.075   =   0.61 m<sup>3</sup>                   2   x   1.50   x   0.450   x   0.075   =   0.10 m<sup>3</sup></p> <p style="text-align: right;">5.20 m<sup>3</sup></p>	m <sup>3</sup>	13.54	4734.15	64100.39
7/3.1	<p>3.1.1 Providing formwork of ordinary timber planking so as to give rough finish including centering , shuttering, strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4.0m &amp; removal of the same for in situ reinforced concrete and plain concrete work in</p> <p>3.1.1.1 Foundation, footing, bases of columns, pile cap, raft and mass concrete works etc. (ii) Using 25mm thick plank</p> <p>Footing      4   x   23   x   0.225   x   1.200   =   24.84 m<sup>2</sup>  Column below PL                   23   x   4   x   0.250   x   1.350   =   31.05 m<sup>2</sup></p> <p style="text-align: right;">55.89 m<sup>2</sup></p>	m <sup>2</sup>	55.89	140.84	7871.55
	<p>3.1.1.3 Columns, pillars, posts &amp; strut (a) Square, rectangular, polygonal in plan or any shape like Tee/ L etc. having plane vertical face. (ii) Using 25mm thick plank Column above PL</p>				

1	2	3	4	5	6
	$20 \times 4 \times 0.13 \times 3.150 = 32.76 \text{ m}^2$ $20 \times 2 \times 0.35 \times 4.200 = 58.80 \text{ m}^2$ $20 \times 2 \times 0.50 \times 4.200 = 84.00 \text{ m}^2$ <u>175.56 m<sup>2</sup></u>	m <sup>2</sup>	175.56	213.73	37522.44
	<b>3.1.1.3 Columns, pillars, posts &amp; strut</b> <b>b) Circular or curved in plan (Using 38mm thick plank)</b> $3 \times 2 \times 3.14 \times 0.10 \times 3.150 = 5.93 \text{ m}^2$	m <sup>2</sup>	5.93	311.15	1845.12
	<b>3.1.1.2 Sides of tie beams, plinth beams, grade beams etc. at or below plinth below</b> <b>(ii) Using 25mm thick plank</b> Tie beam $3 \times 2 \times 8.500 \times 0.300 = 15.30 \text{ m}^2$ $2 \times 2 \times 9.10 \times 0.300 = 10.92 \text{ m}^2$ $4 \times 2 \times 3.60 \times 0.300 = 8.64 \text{ m}^2$ $1 \times 2 \times 3.00 \times 0.300 = 1.80 \text{ m}^2$ $2 \times 2 \times 1.50 \times 0.300 = 1.80 \text{ m}^2$ <u>38.46 m<sup>2</sup></u>	m <sup>2</sup>	38.46	191.27	7356.24
	<b>3.1.1.4) Sides and soffits of beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.</b> <b>(a) For depth not exceeding 1.0M</b> <b>(ii) Using 25mm thick plank</b> Post Plate beam $3 \times 2 \times 8.50 \times 0.15 = 7.65 \text{ m}^2$ $2 \times 2 \times 9.10 \times 0.15 = 5.46 \text{ m}^2$ $2 \times 2 \times 1.50 \times 0.15 = 0.90 \text{ m}^2$ $1 \times 2 \times 3.60 \times 0.15 = 1.08 \text{ m}^2$ Lintel $3 \times 2 \times 8.50 \times 0.20 = 10.20 \text{ m}^2$ $2 \times 2 \times 9.10 \times 0.20 = 7.28 \text{ m}^2$ $4 \times 2 \times 3.60 \times 0.20 = 5.76 \text{ m}^2$ $1 \times 2 \times 3.00 \times 0.20 = 1.20 \text{ m}^2$ $2 \times 2 \times 1.50 \times 0.20 = 1.20 \text{ m}^2$ <u>40.73 m<sup>2</sup></u>	m <sup>2</sup>	40.73	163.01	6639.40
	<b>3.1.1.5) Flat surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like.</b> <b>(a) Floors etc. upto 200mm in thickness.</b> <b>(ii) Using 25mm thick plank</b> Chajja $2 \times 8.50 \times 0.45 = 7.65 \text{ m}^2$ $3 \times 9.10 \times 0.45 = 12.29 \text{ m}^2$ $2 \times 1.50 \times 0.45 = 1.35 \text{ m}^2$ <u>21.29 m<sup>2</sup></u>	m <sup>2</sup>	21.29	243.80	5190.50
8/4.1.4	Brickwork in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed in sub-structure upto plinth level. <b>(b) In prop 1:4</b> Plinth $3 \times 8.50 \times 0.25 \times 0.300 = 1.91 \text{ m}^3$ $2 \times 9.10 \times 0.25 \times 0.300 = 1.37 \text{ m}^3$ $4 \times 3.60 \times 0.25 \times 0.300 = 1.08 \text{ m}^3$ $1 \times 3.00 \times 0.25 \times 0.300 = 0.23 \text{ m}^3$ $2 \times 1.50 \times 0.25 \times 0.300 = 0.23 \text{ m}^3$ Steps $1 \times 3.60 \times 0.90 \times 0.150 = 0.49 \text{ m}^3$ $1 \times 3.60 \times 0.60 \times 0.150 = 0.32 \text{ m}^3$ $1 \times 3.60 \times 0.30 \times 0.150 = 0.16 \text{ m}^3$ Ramp $0.5 \times 3.50 \times 0.25 \times 0.600 = 0.26 \text{ m}^3$ <u>6.04 m<sup>3</sup></u>	m <sup>3</sup>	6.04	4632.29	27979.03

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9/4.1.7	<p>112mm thick 1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in superstructure above plinth up to 1st floor level (protruding MS rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately)</p> <p>(a) in cement mortar in prop 1:4 (1 cement: 4 sand)</p> <table> <tr> <td></td> <td>3</td> <td>x</td> <td>8.5</td> <td>x</td> <td>3.15</td> <td>=</td> <td>80.33</td> <td>m<sup>2</sup></td> </tr> <tr> <td></td> <td>2</td> <td>x</td> <td>9.1</td> <td>x</td> <td>3.15</td> <td>=</td> <td>57.33</td> <td>m<sup>2</sup></td> </tr> <tr> <td></td> <td>3</td> <td>x</td> <td>3.60</td> <td>x</td> <td>3.15</td> <td>=</td> <td>34.02</td> <td>m<sup>2</sup></td> </tr> <tr> <td></td> <td>1</td> <td>x</td> <td>3.00</td> <td>x</td> <td>3.15</td> <td>=</td> <td>9.45</td> <td>m<sup>2</sup></td> </tr> <tr> <td>Extra verandah</td> <td>2</td> <td>x</td> <td>1.5</td> <td>x</td> <td>1.05</td> <td>=</td> <td>3.15</td> <td>m<sup>2</sup></td> </tr> <tr> <td></td> <td>1</td> <td>x</td> <td>3.6</td> <td>x</td> <td>1.05</td> <td>=</td> <td>3.78</td> <td>m<sup>2</sup></td> </tr> <tr> <td>Gable Wall</td> <td>2</td> <td>x</td> <td>0.5</td> <td>x</td> <td>1.7</td> <td>x</td> <td>9.10</td> <td>= 15.02 m<sup>2</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>203.07</td> <td>m<sup>2</sup></td> </tr> <tr> <td colspan="9"><b>Deduction:</b></td> </tr> <tr> <td>Posts</td> <td>20</td> <td>x</td> <td>3.15</td> <td>x</td> <td>0.13</td> <td>=</td> <td>8.19</td> <td>m<sup>2</sup></td> </tr> <tr> <td>Lintel</td> <td>Length,</td> <td></td> <td>25.7</td> <td>x</td> <td>0.20</td> <td>=</td> <td>5.14</td> <td>m<sup>2</sup></td> </tr> <tr> <td colspan="9"><b>Doors, Windows &amp; Ventilators</b></td> </tr> <tr> <td></td> <td><b>D</b></td> <td>2</td> <td>x</td> <td>1.00</td> <td>x</td> <td>2.10</td> <td>=</td> <td>4.20 m<sup>2</sup></td> </tr> <tr> <td></td> <td><b>D<sub>1</sub></b></td> <td>5</td> <td>x</td> <td>0.75</td> <td>x</td> <td>2.10</td> <td>=</td> <td>7.88 m<sup>2</sup></td> </tr> <tr> <td></td> <td><b>W</b></td> <td>9</td> <td>x</td> <td>1.00</td> <td>x</td> <td>1.35</td> <td>=</td> <td>12.15 m<sup>2</sup></td> </tr> <tr> <td></td> <td><b>V</b></td> <td>12</td> <td>x</td> <td>1.0</td> <td>x</td> <td>0.45</td> <td>=</td> <td>5.40 m<sup>2</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>42.96</td> <td>m<sup>2</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>Net quantity =</b></td> <td><b>160.12 m<sup>2</sup></b></td> </tr> </table>		3	x	8.5	x	3.15	=	80.33	m <sup>2</sup>		2	x	9.1	x	3.15	=	57.33	m <sup>2</sup>		3	x	3.60	x	3.15	=	34.02	m <sup>2</sup>		1	x	3.00	x	3.15	=	9.45	m <sup>2</sup>	Extra verandah	2	x	1.5	x	1.05	=	3.15	m <sup>2</sup>		1	x	3.6	x	1.05	=	3.78	m <sup>2</sup>	Gable Wall	2	x	0.5	x	1.7	x	9.10	= 15.02 m <sup>2</sup>								203.07	m <sup>2</sup>	<b>Deduction:</b>									Posts	20	x	3.15	x	0.13	=	8.19	m <sup>2</sup>	Lintel	Length,		25.7	x	0.20	=	5.14	m <sup>2</sup>	<b>Doors, Windows &amp; Ventilators</b>										<b>D</b>	2	x	1.00	x	2.10	=	4.20 m <sup>2</sup>		<b>D<sub>1</sub></b>	5	x	0.75	x	2.10	=	7.88 m <sup>2</sup>		<b>W</b>	9	x	1.00	x	1.35	=	12.15 m <sup>2</sup>		<b>V</b>	12	x	1.0	x	0.45	=	5.40 m <sup>2</sup>								42.96	m <sup>2</sup>								<b>Net quantity =</b>	<b>160.12 m<sup>2</sup></b>	m <sup>2</sup>	160.12	518.62	83041.43																																																										
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10/18.1.1	<p>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S Code for R.C.C. work/R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete(upto 1st floor level).</p> <p>b) ISI approved super ductile TMT bar (ii) Other ISI marked</p> <p>Footing <b>10mm dia</b></p> <table> <tr> <td>Jali</td> <td>23</td> <td>x</td> <td>2</td> <td>x</td> <td>8</td> <td>x</td> <td>1.20</td> <td>=</td> <td>441.60 RM</td> </tr> <tr> <td>Lintel</td> <td></td> <td></td> <td>3</td> <td>x</td> <td>4</td> <td>x</td> <td>8.50</td> <td>=</td> <td>102.00 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2</td> <td>x</td> <td>4</td> <td>x</td> <td>9.10</td> <td>=</td> <td>72.80 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>4</td> <td>x</td> <td>4</td> <td>x</td> <td>3.60</td> <td>=</td> <td>57.60 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>x</td> <td>4</td> <td>x</td> <td>3.00</td> <td>=</td> <td>12.00 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2</td> <td>x</td> <td>4</td> <td>x</td> <td>1.50</td> <td>=</td> <td>12.00 RM</td> </tr> <tr> <td>Postplate</td> <td></td> <td></td> <td>3</td> <td>x</td> <td>4</td> <td>x</td> <td>8.50</td> <td>=</td> <td>102.00 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2</td> <td>x</td> <td>4</td> <td>x</td> <td>9.10</td> <td>=</td> <td>72.80 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2</td> <td>x</td> <td>4</td> <td>x</td> <td>1.50</td> <td>=</td> <td>12.00 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>x</td> <td>4</td> <td>x</td> <td>3.60</td> <td>=</td> <td>14.40 RM</td> </tr> <tr> <td>Column <b>12mm dia</b></td> <td></td> <td></td> <td>23</td> <td>x</td> <td>4</td> <td>x</td> <td>4.90</td> <td>=</td> <td>450.80 RM</td> </tr> <tr> <td>Tie Beam</td> <td></td> <td></td> <td>3</td> <td>x</td> <td>4</td> <td>x</td> <td>8.50</td> <td>=</td> <td>102.00 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2</td> <td>x</td> <td>4</td> <td>x</td> <td>9.10</td> <td>=</td> <td>72.80 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>4</td> <td>x</td> <td>4</td> <td>x</td> <td>3.60</td> <td>=</td> <td>57.60 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>x</td> <td>4</td> <td>x</td> <td>3.00</td> <td>=</td> <td>12.00 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2</td> <td>x</td> <td>4</td> <td>x</td> <td>1.50</td> <td>=</td> <td>12.00 RM</td> </tr> <tr> <td><b>Total Length</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>12mm</b></td> <td>=</td> <td>707.20 RM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>10mm</b></td> <td>=</td> <td>899.20 RM</td> </tr> <tr> <td><b>Total Weight</b></td> <td><b>12mm</b></td> <td>@</td> <td>0.89</td> <td>Kg/RM</td> <td>=</td> <td>629.41</td> <td>Kg</td> <td></td> <td></td> </tr> <tr> <td></td> <td><b>10mm</b></td> <td>@</td> <td>0.62</td> <td>Kg/RM</td> <td>=</td> <td>390.23</td> <td>Kg</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1019.64</td> <td>Kg</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>=</td> <td>10.20</td> <td>Qtl</td> <td></td> </tr> </table>	Jali	23	x	2	x	8	x	1.20	=	441.60 RM	Lintel			3	x	4	x	8.50	=	102.00 RM				2	x	4	x	9.10	=	72.80 RM				4	x	4	x	3.60	=	57.60 RM				1	x	4	x	3.00	=	12.00 RM				2	x	4	x	1.50	=	12.00 RM	Postplate			3	x	4	x	8.50	=	102.00 RM				2	x	4	x	9.10	=	72.80 RM				2	x	4	x	1.50	=	12.00 RM				1	x	4	x	3.60	=	14.40 RM	Column <b>12mm dia</b>			23	x	4	x	4.90	=	450.80 RM	Tie Beam			3	x	4	x	8.50	=	102.00 RM				2	x	4	x	9.10	=	72.80 RM				4	x	4	x	3.60	=	57.60 RM				1	x	4	x	3.00	=	12.00 RM				2	x	4	x	1.50	=	12.00 RM	<b>Total Length</b>							<b>12mm</b>	=	707.20 RM								<b>10mm</b>	=	899.20 RM	<b>Total Weight</b>	<b>12mm</b>	@	0.89	Kg/RM	=	629.41	Kg				<b>10mm</b>	@	0.62	Kg/RM	=	390.23	Kg									1019.64	Kg									=	10.20	Qtl		Qtl	10.20	4746.44	48413.69
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	<p>c) ISI approved - M.S. Rod</p> <p><b>Stirrup 6mm dia</b></p> <p>Post upto PL 23 x 11 x 0.90 = 227.70 RM</p> <p>Post above PL 23 x 21 x 0.45 = 217.35 RM</p> <p>Tie Beam 3 x 57 x 1.00 = 171.00 RM</p> <p>2 x 61 x 1.00 = 122.00 RM</p> <p>4 x 24 x 1.00 = 96.00 RM</p> <p>1 x 20 x 1.00 = 20.00 RM</p> <p>1 x 20 x 1.00 = 20.00 RM</p> <p>Lintel 3 x 57 x 0.55 = 94.05 RM</p> <p>2 x 61 x 0.55 = 67.10 RM</p> <p>4 x 24 x 0.55 = 52.80 RM</p> <p>1 x 20 x 0.55 = 11.00 RM</p> <p>1 x 20 x 0.55 = 11.00 RM</p> <p>Postplate 3 x 57 x 0.45 = 76.95 RM</p> <p>2 x 61 x 0.45 = 54.90 RM</p> <p>2 x 20 x 0.45 = 18.00 RM</p> <p>1 x 24 x 0.45 = 10.80 RM</p> <p>1270.65 RM</p> <p><b>Total Weight</b> @ 0.22 Kg/RM = 279.54 Kg</p> <p>= 2.80 Qtl</p>				
		Qtl	2.80	5241.78	14676.98
11/9.1.2	<p>Providing wood work in frame (chowkhats) of door , window , clerestory window and similar works wrought , framed and fixed in position in contact with C.C. or brick masonry walls including supplying, fitting and fixing with MS flat hold fast (40mmx3mmx25mm) as per design and embedded in cement concrete block in prop 1:1:4 and with two coats of kiricide oiling to the timber faces in contact with C.C. and masonry as directed and specified.</p> <p>(a) Sal wood</p> <p>Doors, D</p> <p>2 x 2 x 0.15 x 0.075 x 2.10 = 0.09 m<sup>3</sup></p> <p>2 x 1 x 0.15 x 0.075 x 1.00 = 0.02 m<sup>3</sup></p> <p>Doors, D<sub>1</sub></p> <p>5 x 2 x 0.15 x 0.075 x 2.10 = 0.24 m<sup>3</sup></p> <p>5 x 1 x 0.15 x 0.075 x 0.75 = 0.04 m<sup>3</sup></p> <p>0.40 m<sup>3</sup></p>				
		m <sup>3</sup>	0.40	55200.04	22080.02
12/9.9.3	<p>Providing, fitting and fixing factory made wooden panelled doors with panel inserts of 75mm to 0.50mm width and 12mm to 20mm thickness, joined together with continuous tongue and groove joints glued together with Movicol or other approved adhesive leaving a vertical groove of 7.5mm to 15mm between the inserts, the edges of panel inserts being feather tongue into styles and rails including providing three pairs of oxidised M.S butt hinges (100mm x 75mm x 3.55mm) and furnishing with moulded timber beading of size 25mm x 15mm around the panels complete as per drawing (moulded timber bead and all fittings except hinges to be paid separately).</p> <p>b).With 1st class local wood(Hollock / Bola/ Bonsum)</p> <p>II) 35mm thick with panel inserts of 20mm thickness</p> <p>Door D 2 x 2.00 x 0.90 = 3.60 m<sup>2</sup></p> <p>D<sub>1</sub> 5 x 2.00 x 0.65 = 6.50 m<sup>2</sup></p> <p>10.10 m<sup>2</sup></p>				
		m <sup>2</sup>	10.10	1783.01	18008.40

1	2	3	4	5	6
13/11.1.2	<p>Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rub</p> <p>(a) 2 Track sliding window</p> <p>(i) 6mm glass W 9 x 1.00 x 1.35 = 12.15 m<sup>2</sup>  V 12 x 0.45 x 1.00 = 5.40 m<sup>2</sup>  17.55 m<sup>2</sup></p>	m <sup>2</sup>	17.55	3793.85	66582.07
14/6.2.2	<p>15mm thick cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises internal rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed.</p> <p>(b) In cement mortar 1:4  Area same as in Item No. 9/4.1.7 = 160.12 m<sup>2</sup></p>	m <sup>2</sup>	160.12	111.25	17813.35
15/6.2.3	<p>15mm thick cement plaster in single coat on fair side of brick / concrete wall for interior plastering up to 1st floor level including arises internal rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed.</p> <p>(b) In cement mortar 1:4  <b>Quantity same as in Item No.14/6.2.2 = 160.12 m<sup>2</sup></b>  <b>Add Plinth Wall</b>  1 x 2 x 36.0 x 0.65 = 46.80 m<sup>2</sup>  1 x 2 x 10.9 x 0.65 = 14.11 m<sup>2</sup>  221.02 m<sup>2</sup>  Deduction Gable Wall = 15.02 m<sup>2</sup>  Net Qty = 206.01 m<sup>2</sup></p>	m <sup>2</sup>	206.01	110.21	22704.36
16/6.2.7	<p>Extra over item no 6.2.1 to 6.2.5 for plastering on ceiling and soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed.</p> <p>Chajja 2 x 2 x 8.5 x 0.45 = 15.30 m<sup>2</sup>  2 x 2 x 9.1 x 0.45 = 16.38 m<sup>2</sup>  2 x 2 x 1.50 x 0.45 = 2.70 m<sup>2</sup>  34.38 m<sup>2</sup></p>	m <sup>2</sup>	34.38	15.05	517.42
17/13.6.3	<p>Applying priming coat over new wood based surfaces over 100 mm in width/girth after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting.</p> <p>(b) With ready mixed paint, wood primer (white).  <b>Shutters:</b>  Door D 2 x 2 x 2.00 x 0.90 = 7.20 m<sup>2</sup>  D1 2 x 5 x 2.00 x 0.65 = 13.00 m<sup>2</sup>  20.20 m<sup>2</sup></p>	m <sup>2</sup>	20.20	30.91	624.38
18/13.6.4	<p>Applying priming coat over new wood based surfaces up to 100 mm in width and girth after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting.</p> <p>(b) With ready mixed paint, wood primer (white).  <b>Door frame: D</b>  2 x 1 x 2 x 2.10 = 16.80 M  2 x 1 x 1 x 2.0 = 8.00 M  2 x 1 x 1 x 1.00 = 4.00 M  2 x 1 x 1 x 0.80 = 1.60 M  <b>Door frame: D<sub>1</sub></b>  5 x 1 x 2 x 2.1 = 42.00 M</p>				



1	2	3	4	5	6
	$5 \times 1 \times 1 \times 2 \times 2.0 = 20.00 \text{ M}$ $5 \times 1 \times 1 \times 2 \times 1.00 = 10.00 \text{ M}$ $5 \times 1 \times 1 \times 1 \times 0.65 = 3.25 \text{ M}$ $T = 105.65 \text{ M}$	M	105.65	3.29	347.59
19/13.6.5	<p>Painting two coats (excluding priming coat) on new wood and wood based surfaces with enamel paint to give an even shade including cleaning the surfaces of dirt, dust and other foreign materials, sand papering and stopping.</p> <p>(i) Surfaces over 100 mm width/girth. (a) General purpose(Asian paint/Berger paint/ICI paint/J &amp; N paint/Nerolac) Quantity same as in Item No.17/13.6.3 = 20.20 m<sup>2</sup></p>	m <sup>2</sup>	20.20	45.80	925.16
	<p>(ii) Surfaces up to 100 mm width/girth. (a) General purpose(Asian paint/Berger paint/ICI paint/J &amp; N paint/Nerolac) Quantity same as in Item No.18/13.6.4 = 105.65 M</p>	M	105.65	5.08	536.70
20/13.2.1	<p>[c] Cement washing with portland cement slurry on wall surface (one coat) to give a smooth bodied opaque finish including thouroughly brooming the surface to remove all dirt, dust, mortar drops and other</p> <p>Quantity same as in Item No.14/6.2.3 = 160.12 m<sup>2</sup></p> <p>Add for chajja = 34.38 m<sup>2</sup></p> <p>194.50 m<sup>2</sup></p>	m <sup>2</sup>	194.50	6.70	1303.15
21/13.3.1	<p>Providing surface preparation of walls, ceiling etc. using average 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and plaster of paris paste, making the surface even and smooth complete at all levels as specified and directed.</p> <p>Quantity same as in Item No.15/6.2.2 = 160.12 m<sup>2</sup></p> <p>Deduct for Gable Wall = 15.02 m<sup>2</sup></p> <p>Net qty = 145.10 m<sup>2</sup></p>	m <sup>2</sup>	145.10	47.42	6880.64
22/13.2.2	<p>[c] Applying one coat of distemper primer of approved brand and manufacture on wall surface after thouroughly brushing the surface free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.</p> <p>Quantity same as in Item No.21/13.3.1 = 145.10 m<sup>2</sup></p>	m <sup>2</sup>	145.10	29.69	4308.02
23/13.2.2	<p>[g] Distempering with distemper of approved brand and manufacture (two coats) and of required shade on new wall surface to give an even shade, after thouroughly brushing the surface free from mortar droppings and other foreign matter and including surface even and sand papered smooth.</p> <p>Quantity same as in Item No.22/13.2.2 = 145.10 m<sup>2</sup></p>	m <sup>2</sup>	145.10	39.51	5732.90
24/5.1.4	<p>65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement : 3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed.</p> <p>1 x 9.10 x 8.50 = 77.35 m<sup>2</sup></p> <p>1 x 1.50 x 3.60 = 5.40 m<sup>2</sup></p> <p>Ramp 1 x 1.50 x 3.50 = 5.25 m<sup>2</sup></p> <p>88.00 m<sup>2</sup></p>	m <sup>2</sup>	88.00	449.48	39554.24

1	2	3	4	5	6																																																																																																																																																																														
25/18.3.1	<p>Providing fitting, hoisting and fixing of roof trusses including purlins fabricated out of M.S. black-tubes conforming to relevant I.S. code, as per approved design and drawings including providing M.S. cleats, base plates, bolts and nuts and one coat of red oxide Zinc Chromate primer and two coats of approved enamel paints complete including fitting necessary cleats etc. for fixing ceiling joists as per design and drawing as directed.</p> <p>Section-AA <b>65mm dia(L)-Tata</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>Rafter</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">4</td> <td style="text-align: center;">x</td> <td style="text-align: right;">5.50</td> <td style="text-align: center;">=</td> <td style="text-align: right;">44.00 m</td> </tr> <tr> <td>Tie</td> <td style="text-align: right;">1</td> <td style="text-align: center;">x</td> <td style="text-align: right;">4</td> <td style="text-align: center;">x</td> <td style="text-align: right;">9.10</td> <td style="text-align: center;">=</td> <td style="text-align: right;">36.40 m</td> </tr> <tr> <td>Bottom runner</td> <td style="text-align: right;">1</td> <td style="text-align: center;">x</td> <td style="text-align: right;">3</td> <td style="text-align: center;">x</td> <td style="text-align: right;">8.50</td> <td style="text-align: center;">=</td> <td style="text-align: right;">25.50 m</td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;">105.90 m</td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;"><b>A) = 604.69 Kg</b></td> </tr> <p><b>50mm dia(M)-Tata</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>King Post</td> <td style="text-align: right;">1</td> <td style="text-align: center;">x</td> <td style="text-align: right;">4</td> <td style="text-align: center;">x</td> <td style="text-align: right;">1.65</td> <td style="text-align: center;">=</td> <td style="text-align: right;">6.60 m</td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;"><b>B) = 33.20 Kg</b></td> </tr> <p><b>40mm dia(M)-Tata</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="3">Strut</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">4</td> <td style="text-align: center;">x</td> <td style="text-align: right;">1.20</td> <td style="text-align: center;">=</td> <td style="text-align: right;">9.60 m</td> </tr> <tr> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">4</td> <td style="text-align: center;">x</td> <td style="text-align: right;">2.08</td> <td style="text-align: center;">=</td> <td style="text-align: right;">16.64 m</td> </tr> <tr> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">4</td> <td style="text-align: center;">x</td> <td style="text-align: right;">1.45</td> <td style="text-align: center;">=</td> <td style="text-align: right;">11.60 m</td> </tr> <tr> <td rowspan="2">Purlin</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">5</td> <td style="text-align: center;">x</td> <td style="text-align: right;">10.00</td> <td style="text-align: center;">=</td> <td style="text-align: right;">100.00 m</td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;">137.84 m</td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;"><b>C) = 445.22 Kg</b></td> </tr> <p>Section-BB <b>32mm dia (L)-Tata</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>Rafter</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">2.20</td> <td style="text-align: center;">=</td> <td style="text-align: right;">8.80 m</td> </tr> <tr> <td>Tie</td> <td style="text-align: right;">1</td> <td style="text-align: center;">x</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">3.60</td> <td style="text-align: center;">=</td> <td style="text-align: right;">7.20 m</td> </tr> <tr> <td>K-Post</td> <td style="text-align: right;">1</td> <td style="text-align: center;">x</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">0.68</td> <td style="text-align: center;">=</td> <td style="text-align: right;">1.35 m</td> </tr> <tr> <td>Strut</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">0.975</td> <td style="text-align: center;">=</td> <td style="text-align: right;">3.90 m</td> </tr> <tr> <td>Purlin</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">3</td> <td style="text-align: center;">x</td> <td style="text-align: right;">1.800</td> <td style="text-align: center;">=</td> <td style="text-align: right;">10.80 m</td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;">32.05 m</td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;"><b>D) = 81.41 Kg</b></td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;"><b>Total Weight = A+B+C+D = 1164.52 Kg</b></td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;"><b>= 11.65 Qtl</b></td> </tr> </table></table></table></table>	Rafter	2	x	4	x	5.50	=	44.00 m	Tie	1	x	4	x	9.10	=	36.40 m	Bottom runner	1	x	3	x	8.50	=	25.50 m								105.90 m								<b>A) = 604.69 Kg</b>	King Post	1	x	4	x	1.65	=	6.60 m								<b>B) = 33.20 Kg</b>	Strut	2	x	4	x	1.20	=	9.60 m	2	x	4	x	2.08	=	16.64 m	2	x	4	x	1.45	=	11.60 m	Purlin	2	x	5	x	10.00	=	100.00 m								137.84 m								<b>C) = 445.22 Kg</b>	Rafter	2	x	2	x	2.20	=	8.80 m	Tie	1	x	2	x	3.60	=	7.20 m	K-Post	1	x	2	x	0.68	=	1.35 m	Strut	2	x	2	x	0.975	=	3.90 m	Purlin	2	x	3	x	1.800	=	10.80 m								32.05 m								<b>D) = 81.41 Kg</b>								<b>Total Weight = A+B+C+D = 1164.52 Kg</b>								<b>= 11.65 Qtl</b>	Qtl	11.65	5875.00	68443.75
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26/8.1.2	<p>Providing corrugated galvenised Iron sheet roofing of TATA SHAKTEE / SAIL including fitting and fixing necessary galvenised J or L hooks, bolts and nuts 8 mm dia with bitumen washer 25 mm dia x 3 mm thick and 1.6 mm thick limpet washer complete excluding cost of roof truss, purlin etc. (Roof trusses and purlin etc.to be measured and paid separately).</p> <p>(a) 0.45 mm thick</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>Sec-AA</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">9.40</td> <td style="text-align: center;">x</td> <td style="text-align: right;">5.50</td> <td style="text-align: center;">=</td> <td style="text-align: right;">103.40 m<sup>2</sup></td> </tr> <tr> <td>Sec-BB</td> <td style="text-align: right;">2</td> <td style="text-align: center;">x</td> <td style="text-align: right;">1.95</td> <td style="text-align: center;">x</td> <td style="text-align: right;">2.35</td> <td style="text-align: center;">=</td> <td style="text-align: right;">9.17 m<sup>2</sup></td> </tr> <tr> <td colspan="7"></td> <td style="text-align: right;">112.57 m<sup>2</sup></td> </tr> </table>	Sec-AA	2	x	9.40	x	5.50	=	103.40 m <sup>2</sup>	Sec-BB	2	x	1.95	x	2.35	=	9.17 m <sup>2</sup>								112.57 m <sup>2</sup>	m <sup>2</sup>	112.57	335.27	37741.34																																																																																																																																																						
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27/8.1.4	<p>Providing galvd iron ridging of TATA SHAKTEE / SAIL including supplying and fixing necessary galvd screws/washers etc. complete as directed.</p> <p>(a) 0.45 mm thick</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>Sec-AA</td> <td style="text-align: right;">1</td> <td style="text-align: center;">x</td> <td style="text-align: right;">9.40</td> <td style="text-align: center;">=</td> <td style="text-align: right;">9.40 m</td> </tr> <tr> <td>Sec-BB</td> <td style="text-align: right;">1</td> <td style="text-align: center;">x</td> <td style="text-align: right;">1.95</td> <td style="text-align: center;">=</td> <td style="text-align: right;">1.95 m</td> </tr> <tr> <td colspan="5"></td> <td style="text-align: right;">11.35 m</td> </tr> </table>	Sec-AA	1	x	9.40	=	9.40 m	Sec-BB	1	x	1.95	=	1.95 m						11.35 m	m	11.35	108.62	1232.84																																																																																																																																																												
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1	2	3	4	5	6																																																							
28/9.3.1	<p>Providing wood work in frame of false ceiling partitions etc.sawn, wrought, framed hoisted and fixed in position with spikes, nails, M.S flat,angle/ cleats with bolt and nuts complete including kiricide oiling two coats to unexposed surfaces of the timber (M.S flats, angle cleats, and bolt and nuts required for flat, angle cleats wherever necessary shall be measured and paid separately).</p> <p>(a) With sal wood</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">1</td> <td style="width: 5%;">x</td> <td style="width: 5%;">10</td> <td style="width: 5%;">x</td> <td style="width: 5%;">8.50</td> <td style="width: 5%;">x</td> <td style="width: 5%;">0.075</td> <td style="width: 5%;">x</td> <td style="width: 5%;">0.05</td> <td style="width: 5%;">=</td> <td style="width: 15%;">0.32 m<sup>3</sup></td> </tr> <tr> <td>1</td> <td>x</td> <td>10</td> <td>x</td> <td>9.10</td> <td>x</td> <td>0.075</td> <td>x</td> <td>0.05</td> <td>=</td> <td>0.34 m<sup>3</sup></td> </tr> <tr> <td>1</td> <td>x</td> <td>2</td> <td>x</td> <td>3.60</td> <td>x</td> <td>0.075</td> <td>x</td> <td>0.05</td> <td>=</td> <td>0.03 m<sup>3</sup></td> </tr> <tr> <td>1</td> <td>x</td> <td>4</td> <td>x</td> <td>1.50</td> <td>x</td> <td>0.075</td> <td>x</td> <td>0.05</td> <td>=</td> <td>0.02 m<sup>3</sup></td> </tr> <tr> <td colspan="10" style="text-align: right;"><u>0.71 m<sup>3</sup></u></td> <td></td> </tr> </table>	1	x	10	x	8.50	x	0.075	x	0.05	=	0.32 m <sup>3</sup>	1	x	10	x	9.10	x	0.075	x	0.05	=	0.34 m <sup>3</sup>	1	x	2	x	3.60	x	0.075	x	0.05	=	0.03 m <sup>3</sup>	1	x	4	x	1.50	x	0.075	x	0.05	=	0.02 m <sup>3</sup>	<u>0.71 m<sup>3</sup></u>											m <sup>3</sup>	0.71	42229.17	29982.71
1	x	10	x	8.50	x	0.075	x	0.05	=	0.32 m <sup>3</sup>																																																		
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29/7.2.1	<p>Providing ,fitting and fixing A.C. building board in ceiling with necessary nails, wood screws including 1st class local wood 50mm x 12mm (hollock/bonsum/sundi) beading including painting two coats to timber beads complete as directed ( ceiling joist to be measured and paid separately).</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">1</td> <td style="width: 5%;">x</td> <td style="width: 5%;">9.10</td> <td style="width: 5%;">x</td> <td style="width: 5%;">8.50</td> <td style="width: 5%;">=</td> <td style="width: 15%;">77.35 m<sup>2</sup></td> </tr> <tr> <td>1</td> <td>x</td> <td>1.50</td> <td>x</td> <td>3.60</td> <td>=</td> <td>5.40 m<sup>2</sup></td> </tr> <tr> <td colspan="6" style="text-align: right;"><u>82.75 m<sup>2</sup></u></td> <td></td> </tr> </table>	1	x	9.10	x	8.50	=	77.35 m <sup>2</sup>	1	x	1.50	x	3.60	=	5.40 m <sup>2</sup>	<u>82.75 m<sup>2</sup></u>							m <sup>2</sup>	82.75	269.44	22296.16																																		
1	x	9.10	x	8.50	=	77.35 m <sup>2</sup>																																																						
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<u>82.75 m<sup>2</sup></u>																																																												
30/10.2	<p>Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.</p> <p>(c) Fixed to Brickwork/P.C.C/R.C.C.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Window</td> <td style="width: 5%;">1</td> <td style="width: 5%;">x</td> <td style="width: 5%;">9</td> <td style="width: 5%;">x</td> <td style="width: 5%;">10.00</td> <td style="width: 5%;">=</td> <td style="width: 15%;">90.00 Kg</td> </tr> <tr> <td>Ventilator</td> <td>1</td> <td>x</td> <td>12</td> <td>x</td> <td>6.00</td> <td>=</td> <td>72.00 Kg</td> </tr> <tr> <td colspan="7" style="text-align: right;"><u>162.00 Kg</u></td> <td></td> </tr> </table>	Window	1	x	9	x	10.00	=	90.00 Kg	Ventilator	1	x	12	x	6.00	=	72.00 Kg	<u>162.00 Kg</u>								Kg	162.00	65.55	10619.10																															
Window	1	x	9	x	10.00	=	90.00 Kg																																																					
Ventilator	1	x	12	x	6.00	=	72.00 Kg																																																					
<u>162.00 Kg</u>																																																												
31/9.4.1	<p>Providing barge board of size 200mm x 20mm with 1st class local Hollock/ Bonsum timber including fitting and fixing with necessary wood screws etc. complete.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">2</td> <td style="width: 5%;">x</td> <td style="width: 5%;">10.00</td> <td style="width: 5%;">=</td> <td style="width: 15%;">20.00 RM</td> </tr> <tr> <td>4</td> <td>x</td> <td>5.50</td> <td>=</td> <td>22.00 RM</td> </tr> <tr> <td>2</td> <td>x</td> <td>1.50</td> <td>=</td> <td>3.00 RM</td> </tr> <tr> <td>4</td> <td>x</td> <td>2.20</td> <td>=</td> <td>8.80 RM</td> </tr> <tr> <td colspan="4" style="text-align: right;"><u>53.80 RM</u></td> <td></td> </tr> </table>	2	x	10.00	=	20.00 RM	4	x	5.50	=	22.00 RM	2	x	1.50	=	3.00 RM	4	x	2.20	=	8.80 RM	<u>53.80 RM</u>					RM	53.80	224.81	12094.78																														
2	x	10.00	=	20.00 RM																																																								
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<u>53.80 RM</u>																																																												
32/15.2.1	<p>Supplying, fitting, fixing anodised aluminium fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete. (anodised to bright natural matt &amp; satin finished)</p> <p><b>(a) Sliding door bolts</b></p> <p>(i) 300mm x 16mm :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">D</td> <td style="width: 5%;">2</td> <td style="width: 5%;">x</td> <td style="width: 5%;">1</td> <td style="width: 5%;">=</td> <td style="width: 15%;">2 Nos.</td> </tr> <tr> <td>D<sub>1</sub></td> <td>5</td> <td>x</td> <td>1</td> <td>=</td> <td>5 Nos.</td> </tr> <tr> <td colspan="5" style="text-align: right;"><u>7 Nos.</u></td> <td></td> </tr> </table> <p><b>(b) Tower bolt</b></p> <p>i) 300mm x 12mm</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">D</td> <td style="width: 5%;">2</td> <td style="width: 5%;">x</td> <td style="width: 5%;">2</td> <td style="width: 5%;">=</td> <td style="width: 15%;">4 Nos.</td> </tr> <tr> <td>D<sub>1</sub></td> <td>5</td> <td>x</td> <td>2</td> <td>=</td> <td>10 Nos.</td> </tr> <tr> <td colspan="5" style="text-align: right;"><u>14 Nos.</u></td> <td></td> </tr> </table> <p>v) 100mm x 10mm</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">W</td> <td style="width: 5%;">9</td> <td style="width: 5%;">x</td> <td style="width: 5%;">2</td> <td style="width: 5%;">=</td> <td style="width: 15%;">18 Nos.</td> </tr> </table>	D	2	x	1	=	2 Nos.	D <sub>1</sub>	5	x	1	=	5 Nos.	<u>7 Nos.</u>						D	2	x	2	=	4 Nos.	D <sub>1</sub>	5	x	2	=	10 Nos.	<u>14 Nos.</u>						W	9	x	2	=	18 Nos.	Each Each	7 14 18	290.34 142.43 62.47	2032.38 1994.02 1124.46													
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D <sub>1</sub>	5	x	1	=	5 Nos.																																																							
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<u>14 Nos.</u>																																																												
W	9	x	2	=	18 Nos.																																																							

1	2	3	4	5	6
	<b>(c) Door handle</b>				
	(i) 100mm	W 9 x 1 = 9 Nos.	Each 9	61.09	549.81
	iii) 150mm	D 2 x 2 = 4 Nos.			
		D <sub>1</sub> 5 x 2 = 10 Nos.			
		14 Nos.	Each 14	75.37	1055.18

790293.03

Deduct 10% Contractors' Profit = 79029.30

711263.72

Add for 20 users Septik Tank = 27348.00

Add for HTW with C.C. platform = 10000.00

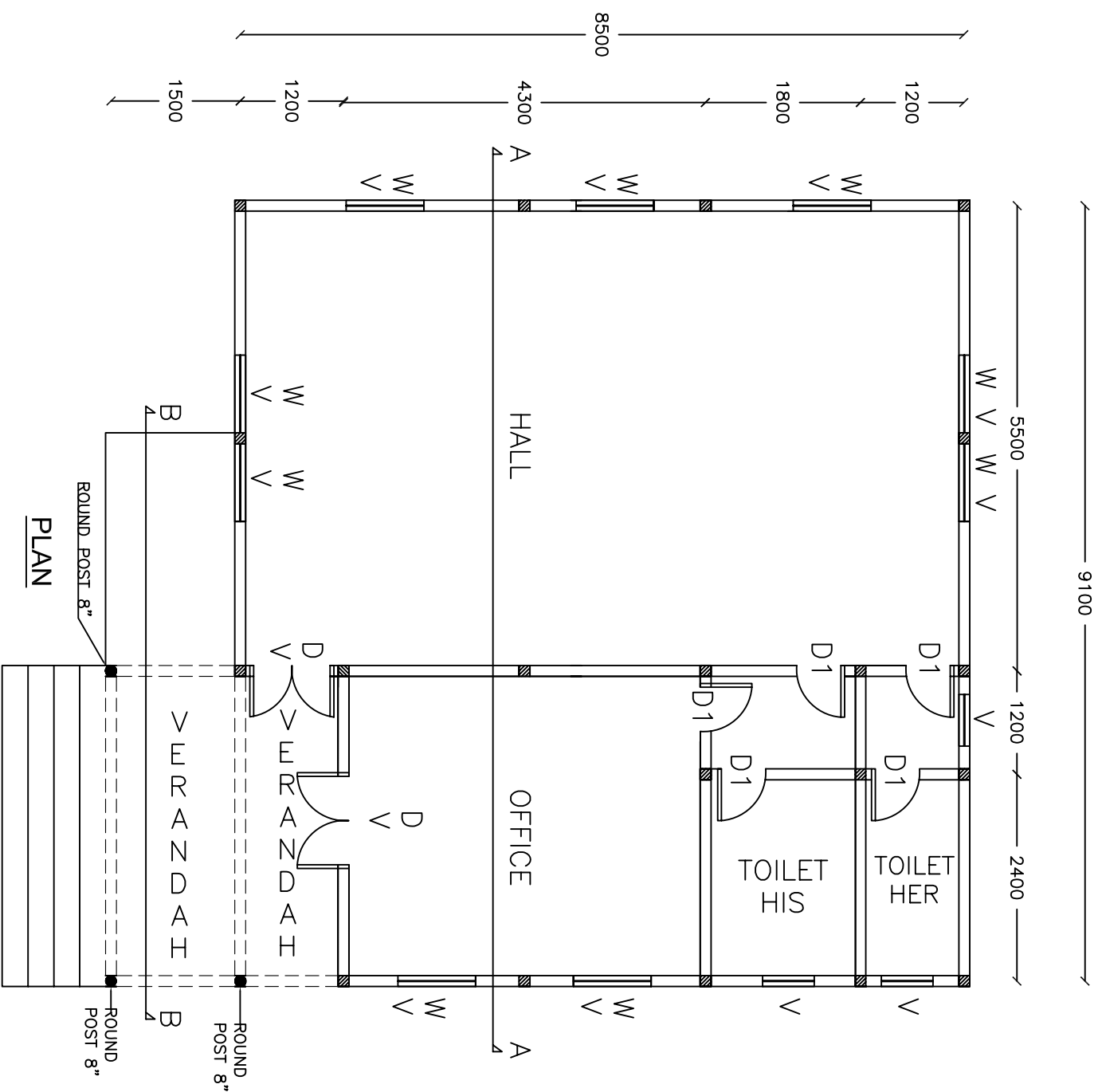
Add for internal electrification (5%) of CW = 35563.19

Add for sanitary installation LS = 15000.00

GT = 799174.91

**SAY, 800000.00**

**Rupees Eight Lakh only**



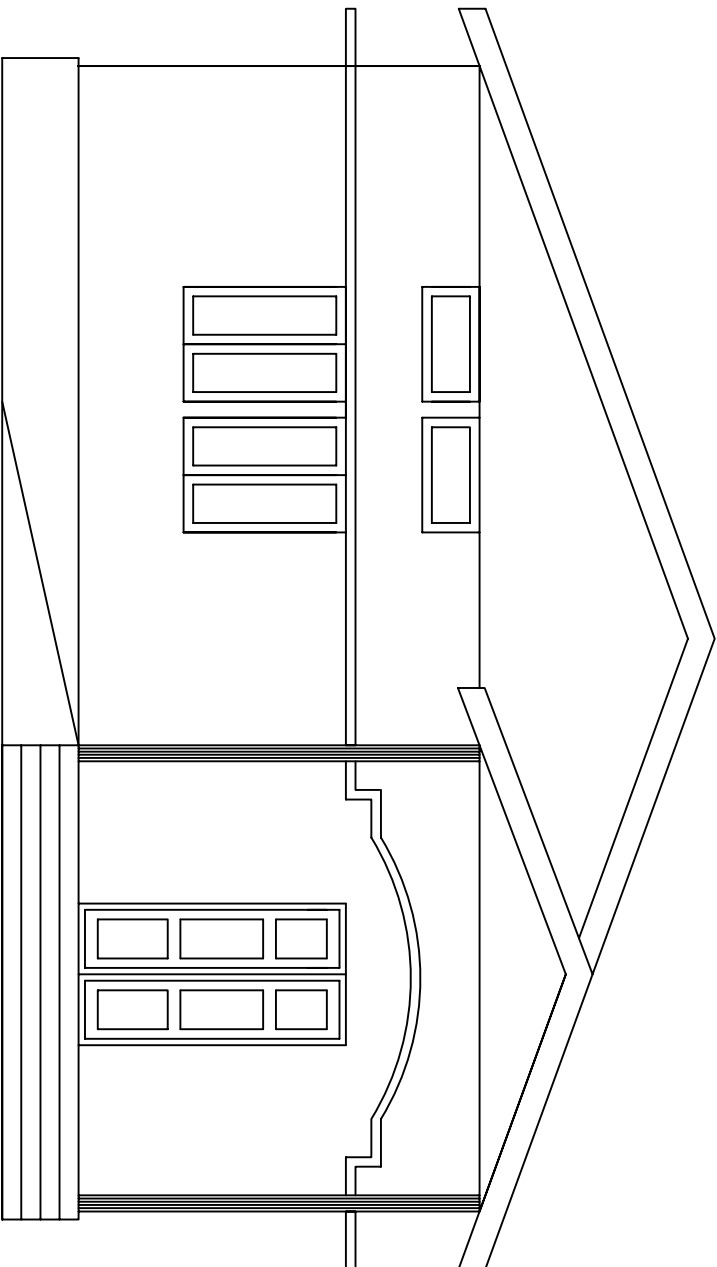
- General Note:**
1. All dimensions are center to center and in mm unless otherwise specified.
  2. Drawings are to be read, not scaled.
  3. Relevant IS Code is to be followed wherever required.

- Doors**
- D - 1.00mx2.10m
  - D1 - 0.75mx2.10m
- Windows (Aluminium Casement)**
- W - 1.00mx1.35m
- Ventilators (Aluminium Casement)**
- V - 1.00mx0.45m

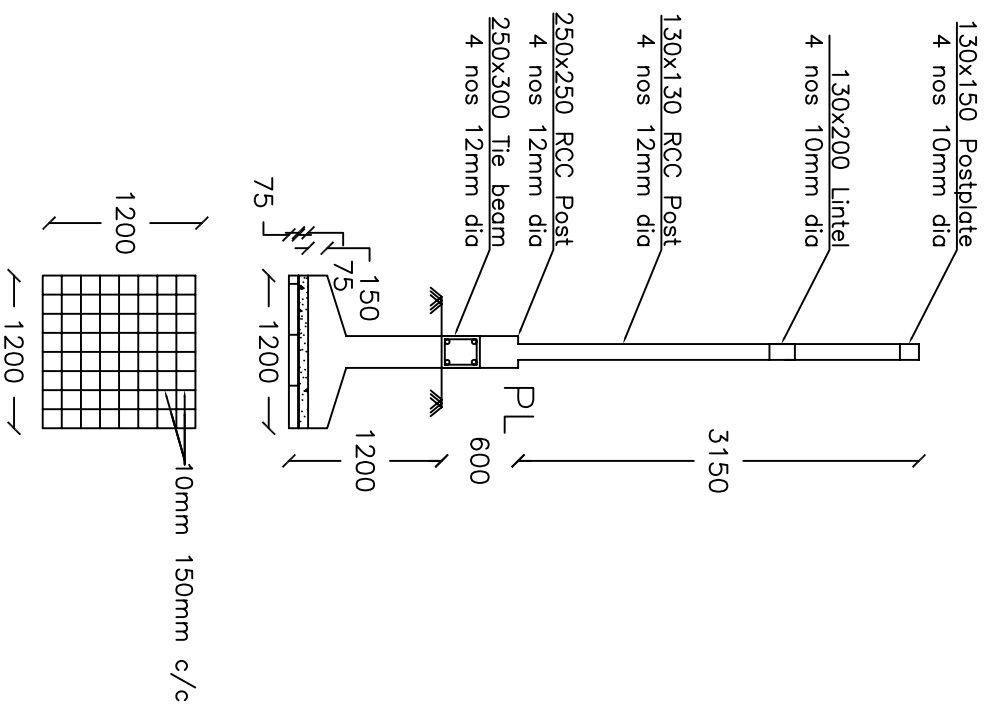
**Drawing Plate 1/3**

**Construction of Community Hall**

**Drawn By**



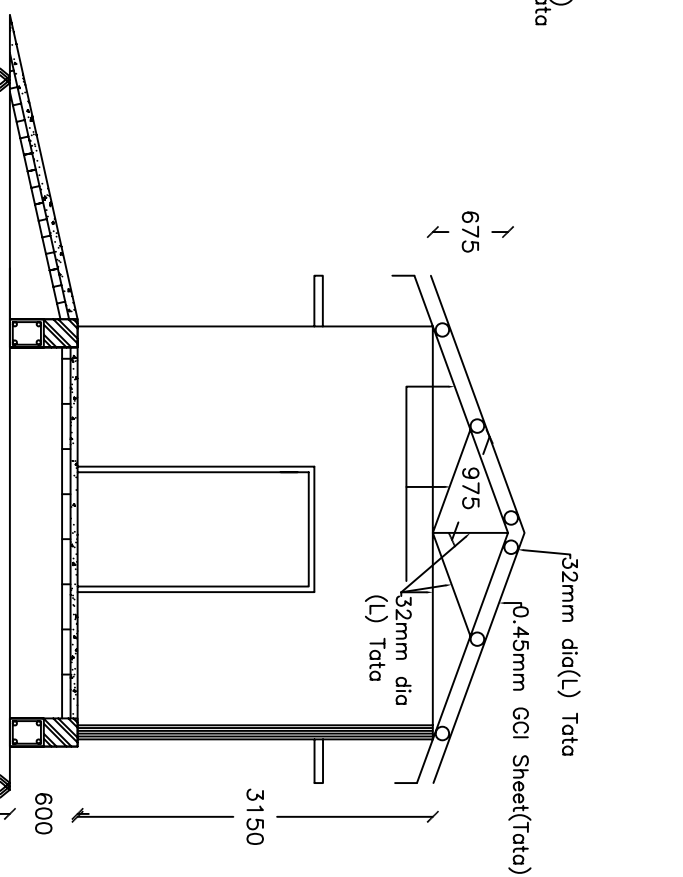
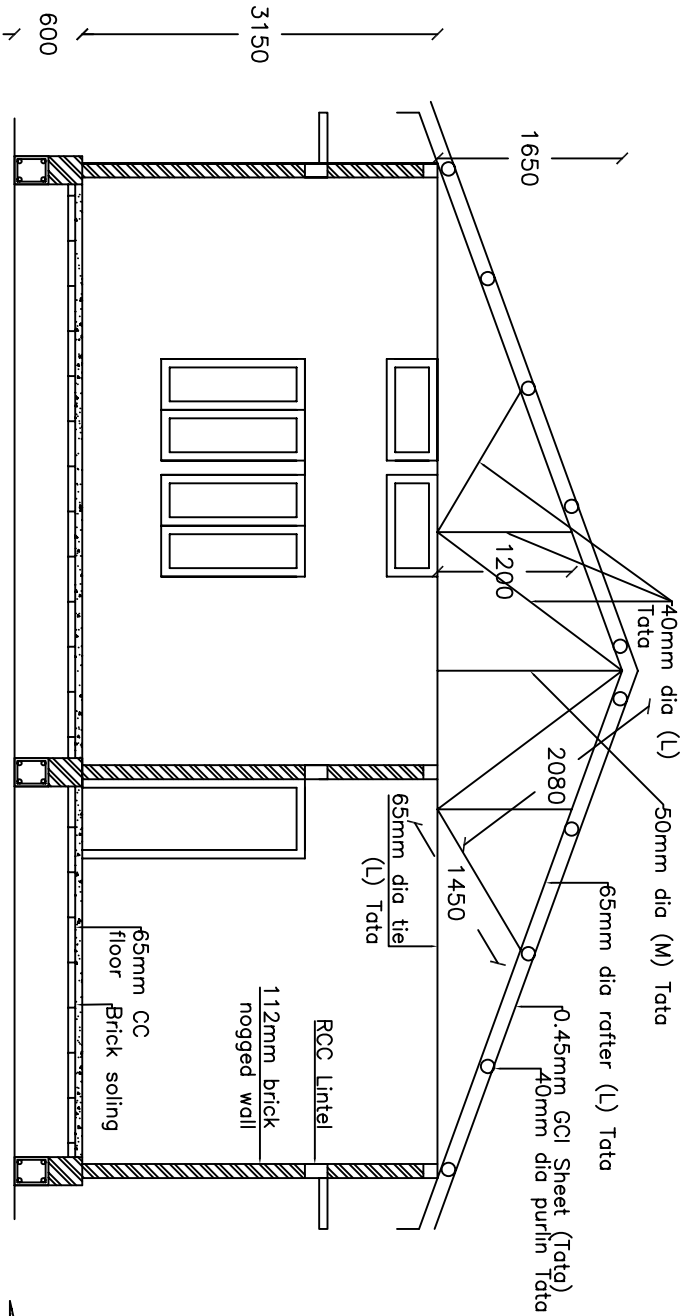
ELEVATION



COLUMN & FOOTING

Drawing Plate 2/3

**Construction of Community Hall**



**Drawing Plate 3/3**  
**Construction of Community Hall**

HAND TUBE WELL



**Estimate for installation of HTW with HP No. 6 & C.C Platform & Drain  
(As per APHD S.O.R./2008-09 & APWD(Water Supply & Sanitary) S.O.R./2010-11)**

**ANNEXURE – A  
LABOUR CHARGE**

Sl No.	Item of work	Unit	Qty	Rate, Rs.	Amount, Rs.
1	2	3	4	5	6
1/2.1.1	Labour charge for making bore hole of 40 mm dia G.I. pipe up to required depth below ground level and collecting sample of soil at every 3.0 m depth or wherever there is a change of strata in sample boxes with the distinguishing marks including arranging and carriage of necessary boring materials / tools etc. and withdrawing the pipe for lowering well assembly etc. all complete as directed	m	23.00	53.90	1,239.70
2/2.2.1	Labour charge for sinking, lowering, fitting, fixing in position 40 mm dia G.I. pipe with 40 mm dia strainer placed in potable water bearing layer with 40 mm dia cone at the bottom of the tube well, washing the bore well etc. and supplying necessary jointing materials cutting and threading the pipe complete including carriage of materials and cleaning and priming the tube well all complete as directed.	m	18.00	12.50	225.00
3/2.5.1	Labour charge for fitting, fixing force and lift/shallow well hand pump with necessary clamps, nuts, bolts etc firmly on the top of the pedestal including cutting, threading the pipe as necessary with local carriage of materials and commissioning the pump all complete as directed.	Each	1	48.40	48.40
4/2.11.1	Construction of plate form of conventional tube well with cement concrete works in proportion 1:2:4 of 1.50m dia (outside to outside) in two layers with a base layer of concrete of proportion 1:4:8 as per approved drawing No. C.E.(PHE)- 03/05 including necessary earth work and refilling after completion of work all complete as directed.	Each	1	1,929.80	1,929.80
5/2.11.5	Construction of drain with cement concrete works in proportion 1:2:4 in slope 1:50 with a base layer of concrete of proportion 1:4:8 as per respective approved drawings including necessary earth work and refilling after completion of work all complete as directed.	m	1.0	282.00	282.00

Rs. 3,724.90

**ANNEXURE – B  
COST OF MATERIALS**

Sl No.	Item	Unit	Qty	Rate	Amount
1	Maya hand Pump Hand Pump No. 6 for 40mm dia tube well with all accessories (as per PWD rate)	Each	1	Rs. 1,794.99	Rs. 1,794.99
2	40 mm dia GI Pipe (as per PHE rate)	m	18.0	Rs. 195.30	Rs. 3,515.40
3	40 mm dia BJ Strainer (as per PHE rate)	Each	1	Rs. 911.10	Rs. 911.10
4	40 mm dia C.I. Cone	Each	1	Rs. 20.00	Rs. 20.00

**Total =** Rs. 6,241.49

**ABSTRACT OF COST FOR 1(ONE) NO. OF HTW**

(a) Labour Charge (Annexure-A) ----- Rs. 3,724.90

(b) Cost of materials (Annexure-B) ----- Rs. 6,241.49

Total = Rs. 9,966.39

**SAY, Rs. 10,000.00**

**Rupees Ten Thousand only**

SEPTIC TANK

## Detailed Estimate for the Septic Tank 20 Users

(Schedule of Rates for PWD Building (Civil works) 2010-11)

1	1.1	Earth work in excavation for foundation trenches of wall, retaining wall, column etc. including refilling the quantity as necessary after completion of the work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified	Rs.64.67	<b>Rs.415.18</b>
2	4.1.1	Providing soiling in foundation and under floor with stone / best quality picked jhama brick, sand packed and laid to level and in panel after preparation of sub gradeas directed including all cost of labour and materials and if necessary dewatering complete a) Brick flat soling 1x 3.65 x 1.60 = 5.84 m2	Rs.286.37	<b>Rs.1,672.40</b>
3	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick work etc. as directed and specified including dewatering if necessary, and curing complete (shutterin where necessary shall be measured and paid separately) a) In prop. 1:3:6 1x 3.65 x 1.60x 0.10 = 0.58 m3	Rs.3,733.00	<b>Rs.2,165.14</b>
4	2.2.1	Providing and laying plain/ reinforced cement concrete work in prop. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate, 20mm down) including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work. a) In Substructure upto plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining wall, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level 1x 2.70x 0.90x 0.065 = 0.16 m3 1x 1.00x 0.15x 0.15 = 0.02 m3 T = 0.18 m3	Rs.4,734.15	<b>Rs.852.15</b>
5	4.1.4	Brick work in cement mortar with 1st class brick including racking ut joint and dewatering if necessary, curing complete as directed in sub-structure utpo plinth level b) In prop. 1:4 2x 3.45x 0.25x 1.35 = 2.33 m3 2x 0.90x 0.25x 1.35 = 0.61 m3 1x 0.90x 0.125x 1.05 = 0.12 m3 1x 0.90x 0.125x 1.05 = 0.12 m3 = 3.17 m3	Rs.4,401.57	<b>Rs.13,952.98</b>
6	6.2.2	15mm thick cement plater in single coat on rough side of single or half brick wall for interior plastering upto 1st Floor level including arises, internal rounded angles not exceeding 80mm girth, including curing complete as directed. b) In Cement mortar 1:4 01.04 2x 1x 3.65x 0.30 = 2.19 m2 2x 1x 1.40x 0.30 = 0.84 m2 = 3.03 m2	Rs.95.10	<b>Rs.288.15</b>
7	25.12	Providing precast RCC slab in prop. 1:2:4 reinforced with 10mm bars @ 150mm cement both ways tying with 20 gauge annealed wire with necessary shuttering including fixing b) 75mm thick slab 1 x 1x 3.45x 1.40 = 4.83 m2	Rs.1,085.06	<b>Rs.5,240.84</b>

- 8 5.1.10 Cement plaster skirting with cement mortar 1:3 finished with a floating coat of neat cement including rounding of junction with floor

a) 15mm thick

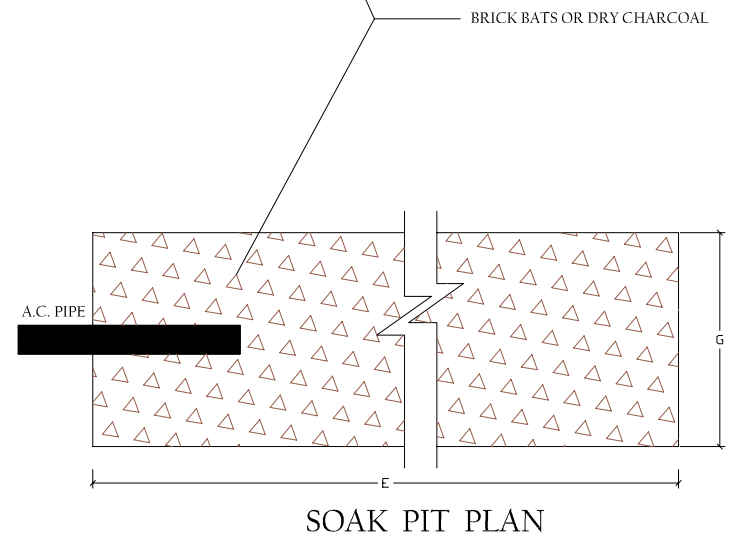
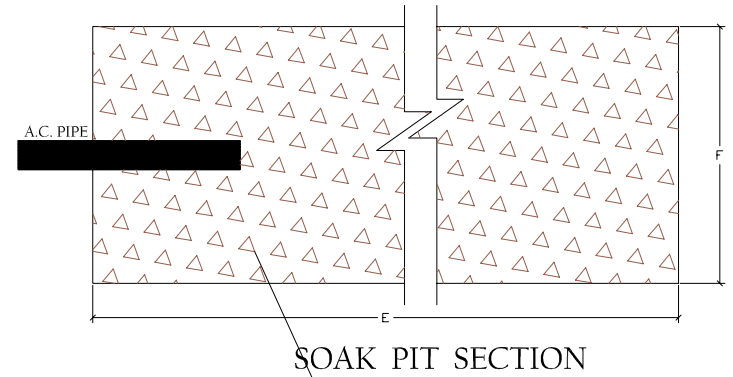
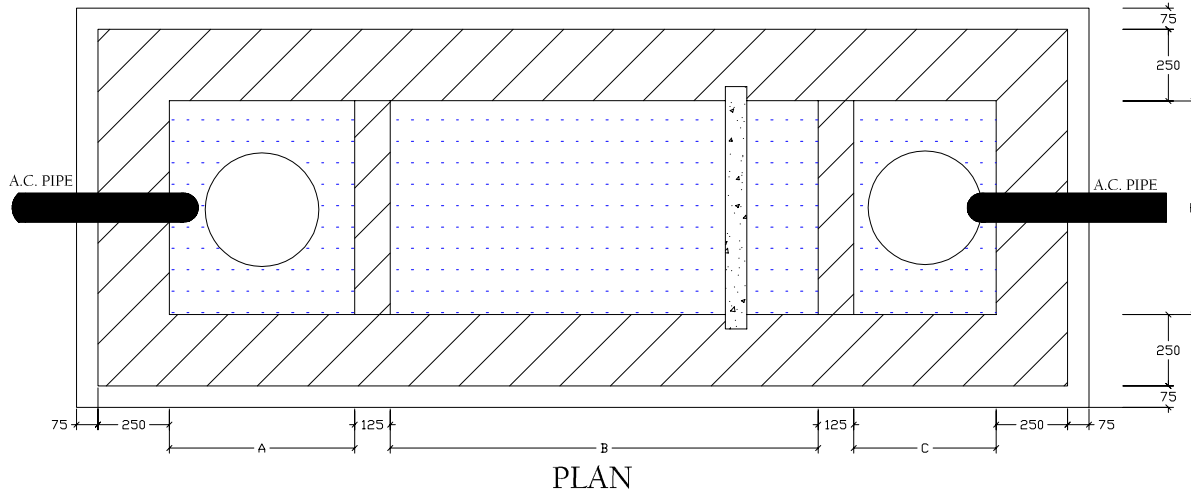
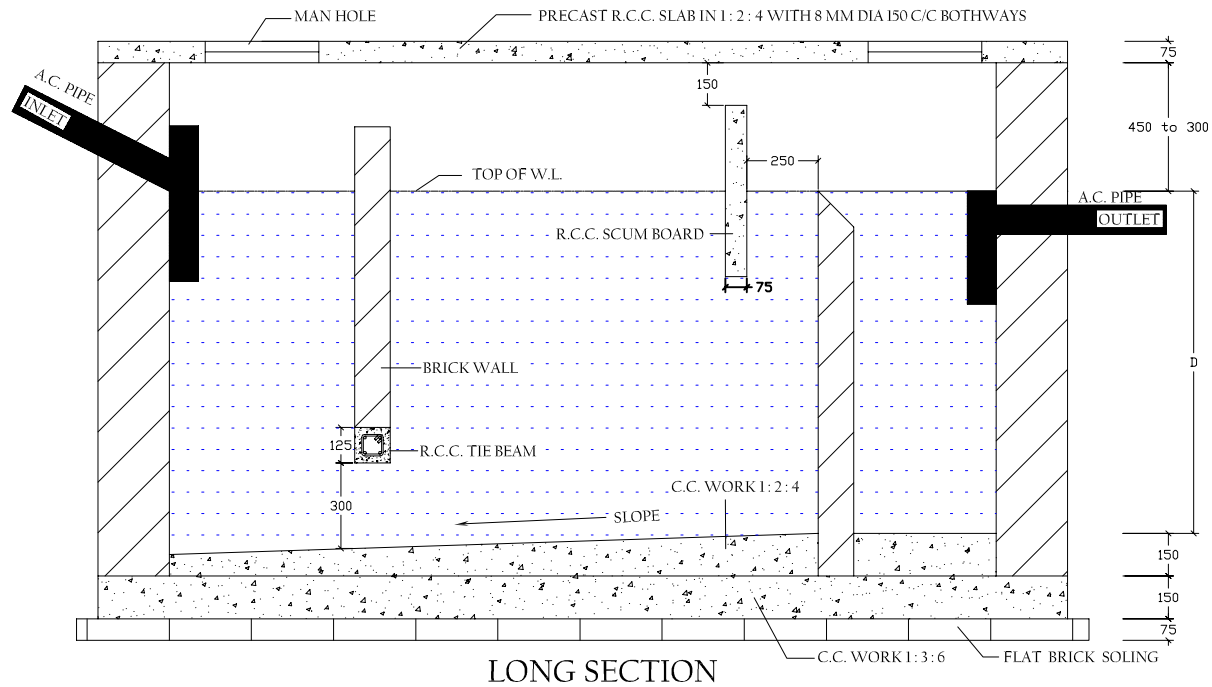
2 x	1x	2.70x	1.35	= 7.29 m2
3 x	2x	0.90x	1.20	= 6.48 m2
1 x	1x	2.70x	0.90	<u>= 2.43 m2</u>
				16.20 m2

Rs.170.47 **Rs.2,761.61**

Total Cost = Rs.27,348.45

**( Rupees Twenty even Thousand Three Hundred Forty Eight & Paise forty five only )**

# SEPTIC TANK WITH SOAK PIT



DRAWN BY  
*Dhrubajyoti Sarmah*  
 Jr. Engineer  
 Pachim KALIabor Development Block  
 Missa : Nagaon : Assam

\* ALL DIMENSIONS ARE IN MM