

PROPOSED PRADHAN MANTRI AWAAS YOJANA (PMAY-G) RURAL HOUSE MODELS

MODEL NO. 9 – SIMPLE RCC HOUSE

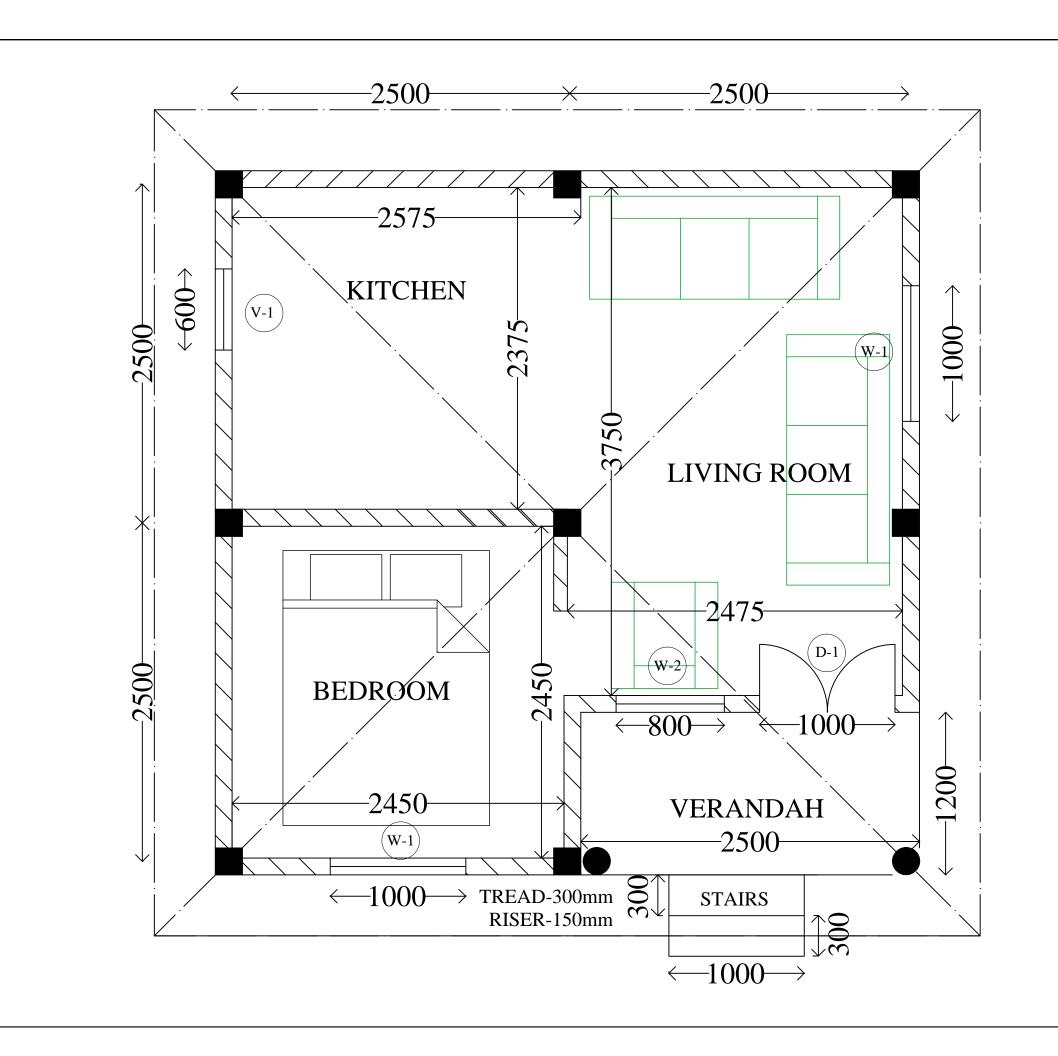
S.No.	GENERAL SPECIFICATIONS:-	DESCRIPTIONS
1.	Foundation	Isolated footings as per designed.
2.	Plinth Walls	Stone Masonry plinth wall.
3.	Columns	200mm x 200mm RCC Columns.
4.	Superstructure	RCC frame Structure as per designed.
5.	Wallings	125mm thick brick wall at a height of 3 metres frm P.L.
6.	Doors	Local wood/ Timber framed full panelled doors.
7.	Windows	Local wood/ Timber frame with glass panes.
8.	Ventilators	Local wooden frame ventilators with glass panes.
9.	Flooring	Plain cement flooring over RCC bed on a back filled plinth stone masonry walls.
10.	Roof Structure	Hipped/ Gable Roof with local wooden/ bamboo roofing members (Rafters, ties and purlins) with an angle of slope of 30 degrees.
11.	Roof Cover	CGI Sheets used as roof cover and are fastened using J-bolts.
12.	Finishing	External and interior painted with acrylic washable distemper of approved shade for columns and lintels.

	Description	Area (Sq.m)	Amount (In Rupees)
1.	Ground Floor	25	Rs.2,56,000.00
		Total	Rs.2,56,000.00

(Rupees Two Lakhs And Fifty Six Thousand Only)

PREPARED BY:

ASSISTANT ENGINEER (PMAY-G) DIRECTORATE of C&RD MEGHALAYA, SHILLONG.



All Dimensions Are in mm									
Doors	Doors WXH								
D-1	1000X2100	0							
Window	WXH	Sill							
W-1	1000X1500	1000							
W-2	800X1500	1000							
Ventilatio	on WXH	Sill							
V-1	600X1200	1 000							

PROPOSED PMAY-G RURAL HOUSE (RCC HOUSE- RCC COLUMNS WITH CGI SHEET COVER)

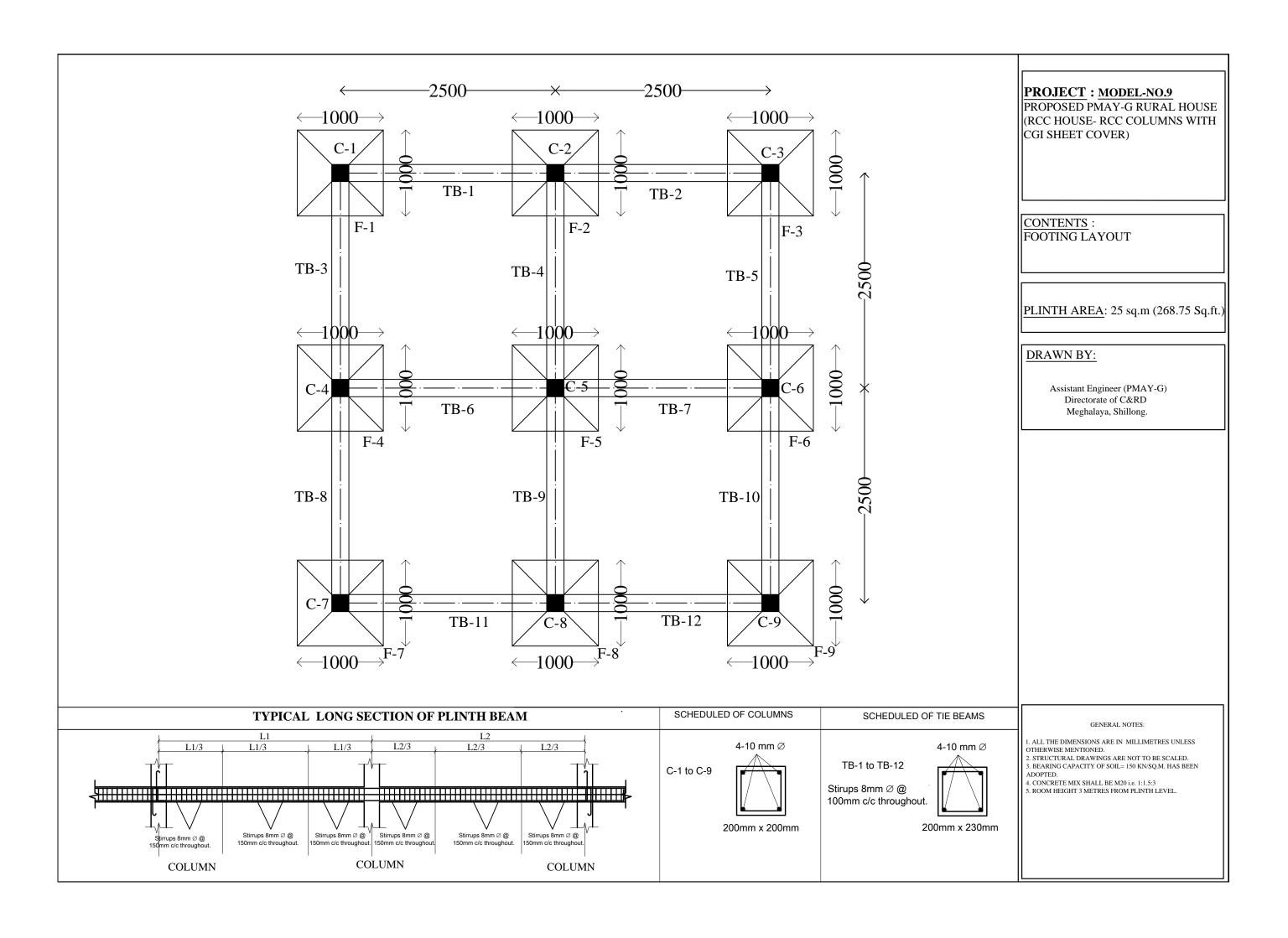
CONTENTS: PLAN LAYOUT

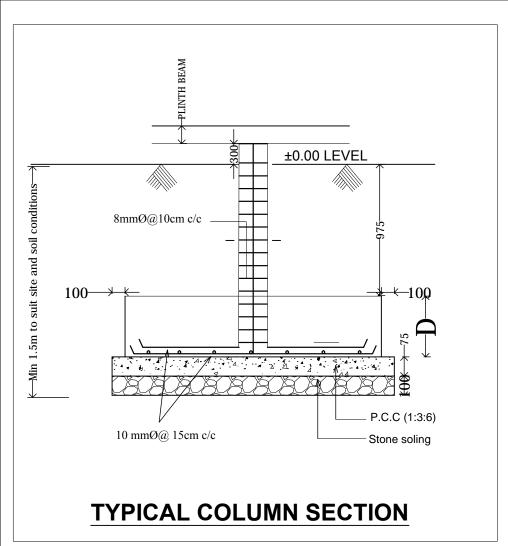
PLINTH AREA: 25 sq.m (268.75 Sq.ft.)

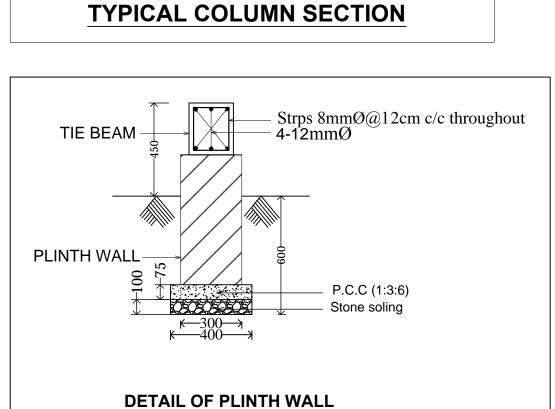
DRAWN BY:

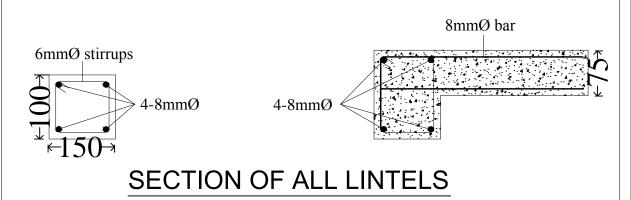
Assistant Engineer (PMAY-G)
Directorate of C&RD Meghalaya, Shillong.

- . ALL THE DIMENSIONS ARE IN MILLIMETRES UNLESS
- T. ALE THE DIMERSIONS ARE IN MILLIMETRIS UNLESS OTHERWISE MENTIONED. 2. STRUCTURAL DRAWINGS ARE NOT TO BE SCALED. 3. BEARING CAPACITY OF SOIL= 150 KN/SQ.M. HAS BEEN
- ADOPTED.
 4. CONCRETE MIX SHALL BE M20 i.e. 1:1.5:3
 5. ROOM HEIGHT 3 METRES FROM PLINTH LEVEL.









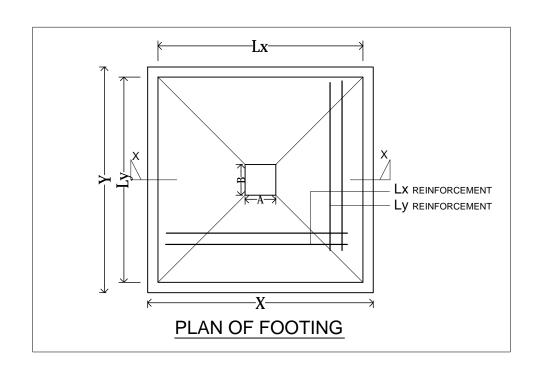


TABLE	TABLE SHOWING DETAILS OF COLUMN FOOTINGS											
FOOTING NO.		D	X	Y	Reinforcement (Jali)							
	(mm x mm)	(mm)	(mm)	(mm)								
F-1 upto F-9	200 x 200	300	1000	1000	10 mmØ @ 12 cm c/c							

PROPOSED PMAY-G RURAL HOUSE (RCC HOUSE- RCC COLUMNS WITH CGI SHEET COVER)

CONTENTS:

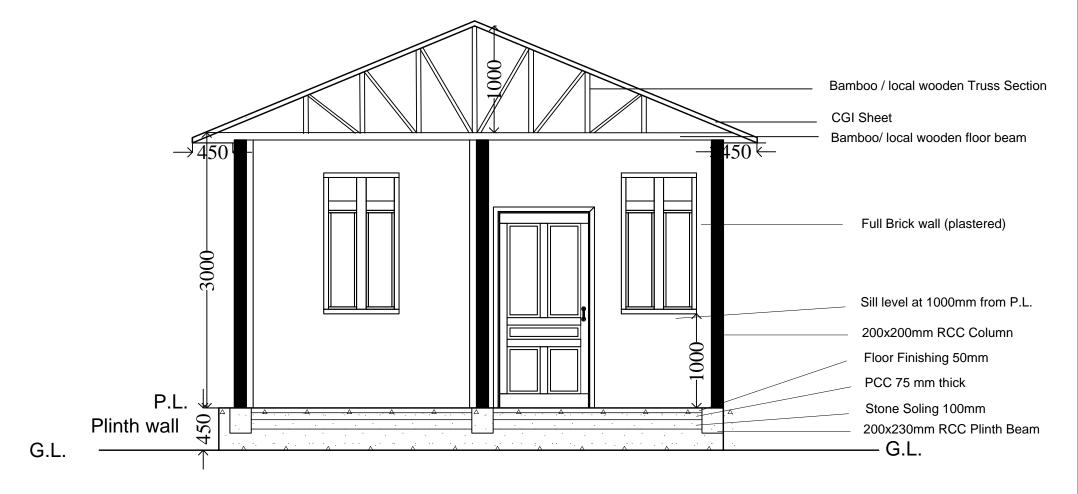
DETAILS OF FOOTING, TYPICAL COLUMN SECTION, PLINTH WALL & LINTELS

PLINTH AREA: 25 sq.m (268.75 Sq.ft.)

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Assistant Engineer (PMAY-G) Directorate of C&RD Meghalaya, Shillong.

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All Dimensions Are in mm									
Doors	WXH	Sill							
D-1	1000X2100	0							
Window	WXH	Sill							
W-1	1000X1500	1000							
W-2	800X1500	1000							
Ventilatio	n WXH	Sill							
V-1	600X1200	1 000							

PROPOSED PMAY-G RURAL HOUSE (RCC HOUSE- RCC COLUMNS WITH CGI SHEET COVER)

CONTENTS: SECTION ELEVATION

PLINTH AREA: 25 sq.m (268.75 Sq.ft.)

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Assistant Engineer (PMAY-G) Directorate of C&RD Meghalaya, Shillong.

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- OTHERWISE MENTIONED.

 2. STRUCTURAL DRAWINGS ARE NOT TO BE SCALED.

 3. BEARING CAPACITY OF SOIL= 150 KN/SQ.M. HAS BEEN
- ADOPTED.
 4. CONCRETE MIX SHALL BE M20 i.e. 1:1.5:3
 5. ROOM HEIGHT 3 METRES FROM PLINTH LEVEL.





SCHEDULED OF DOORS & WINDOWS										
All Din	All Dimensions Are in mm									
Doors	Doors WXH S									
D-1	1000X2100	0								
Window	WXH	Sill								
W-1	1000X1500	1000								
W-2	800X1500	1000								
Ventilation	on WXH	Sill								
V-1	600X1200	1000								

PROPOSED PMAY-G RURAL HOUSE (RCC HOUSE- RCC COLUMNS WITH CGI SHEET COVER)

3D VIEW



LEFT VIEW



FRONT VIEW

RIGHT VIEW

<u>CONTENTS</u>: FRONT, LEFT, RIGHT & 3D VIEWS

PLINTH AREA: 25 sq.m (268.75 Sq.ft.)

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- ADOPTED.

 4. CONCRETE MIX SHALL BE M20 i.e. 1:1.5:3

 5. ROOM HEIGHT 3 METRES FROM PLINTH LEVEL.

Detailed Estimate Cost of Proposed PMAY-G Rural House Model No.9

(Simple RCC House) Rate As Per Govt. of Meghalaya (P.W.D) Schedule Of Rates For Building Works 2015-2016 (Khasi Hills Rate)

Item.no	Description of items		No		$oldsymbol{L}$	В	H	Quantity	Area Content
1/1.1	Earthwork in excavation in foundation trenches including dressing of sides and ramming of bottom including stacking of serviceable stones and removal of excavated earth which lead upto 50m complete								
	a) In hard soil.								
	Footing	9	1	1	1.00	1.00	1.20	10.80	
	Plinth wall	8	1	1	1.50	0.30	0.60	2.16	
			_	-		0.00	Total =	12.96	
						<u>@</u>	Rs. 231.00	Per Cum	Rs. 2,993.76
2/1.4	Earthwork in filling incluspecified	iding ne	ecessary	carria	ge,waterir	ıg,rammin	ig etc. complete as d	irected and	
(b)					ded	uct soling	,pcc,rubble stone =	9.76	
							Total =	6.80	
						@	Rs. 210.00	Per Cum	Rs. 1,428.00
(b)									
(b)	In prop 1:4:8								
(b)	In prop 1:4:8 Footing	9	1	1	1.00	1.00	0.08	0.68	
(b)		9 8	1	1	1.00	1.00	0.08	0.68	
(b)	Footing	-							
(b)	Footing	-					0.08	0.36	Rs. 5,915.52
(b)	Footing	-				0.40	0.08 <i>Total</i> =	0.36	Rs. 5,915.52
(b) 4/2.2	Footing	8 soor base	1 in prop	1 1:3:61	1.50	0.40 @ ernate bay	0.08 Total = Rs. 5,688.00 s as specified with c	0.36 1.04 Per Cum	Rs. 5,915.52
	Footing Plinth wall Plain cement concrete flo	8 8 Poor base to 32m	1 in prop	1 1:3:61	1.50	0.40 @ ernate bay	0.08 Total = Rs. 5,688.00 s as specified with c	0.36 1.04 Per Cum	Rs. 5,915.52
4/2.2	Footing Plinth wall Plain cement concrete floaggregates of size 13mm	8 8 Poor base to 32m	1 in prop	1 1:3:61	1.50	0.40 @ ernate bay	0.08 Total = Rs. 5,688.00 s as specified with c	0.36 1.04 Per Cum	Rs. 5,915.52
4/2.2	Footing Plinth wall Plain cement concrete floaggregates of size 13mm 50 mm thick In prop 1:3:	8 oor base to 32mi	in prop	1 1:3:61 ding de	1.50	0.40 @ ernate bay if necessar	0.08 Total = Rs. 5,688.00 s as specified with c	0.36 1.04 Per Cum oarse mplete.	Rs. 5,915.52
4/2.2	Footing Plinth wall Plain cement concrete floaggregates of size 13mm 50 mm thick In prop 1:3:	8 oor base to 32mi	in prop	1 1:3:61 ding de	1.50	0.40 @ ernate bay if necessar	0.08 Total = Rs. 5,688.00 s as specified with cry,and curing etc con-	0.36 1.04 Per Cum oarse mplete.	Rs. 5,915.52
4/2.2	Footing Plinth wall Plain cement concrete floaggregates of size 13mm 50 mm thick In prop 1:3:	8 oor base to 32mi	in prop	1 1:3:61 ding de	1.50	0.40 @ ernate bay if necessar	0.08 Total = Rs. 5,688.00 s as specified with cry,and curing etc control Total =	0.36 1.04 Per Cum oarse mplete. 25.00 25.00	
4/2.2	Footing Plinth wall Plain cement concrete floaggregates of size 13mm 50 mm thick In prop 1:3:	8 oor base to 32m: 6 1 accrete in d & 20m pplete b	in propm inclu	1 1 2 1:3:61 ding de	1.50 laid in alterwatering 5.00 ment concled stone ormwork a	0.40 @ ernate bay if necessar 5.00 @ erete work aggregate and reinfo	0.08 Total = Rs. 5,688.00 s as specified with cry, and curing etc cor. Total = Rs. 354.00 s using concrete mixincluding dewatering reement for reinforce.	0.36 1.04 Per Cum oarse mplete. 25.00 25.00 Per Sqm	
4/2.2 (b)	Footing Plinth wall Plain cement concrete floaggregates of size 13mm 50 mm thick In prop 1:3: Flooring Providing and laying comachine with coarse same necessary, and curing comachine company to the coarse same necessary, and curing coarse same necessary, and curing coarse same necessary.	8 oor base to 32m 6 1 acrete in d & 20m pplete be and recructure a walls, i	in propm inclu reinform do out excluinforce including retainin	1 1 2 1:3:61 ding de	1.50 laid in alterwatering 5.00 ment concled stone ormwork a ill be meang, colum walls of se	0.40 @ ernate bay if necessar 5.00 @ erete work: aggregate and reinfousured and reinfousured and reptic tank,	o.08 Total = Rs. 5,688.00 s as specified with cry, and curing etc cory, and curing etc cor	0.36 1.04 Per Cum oarse mplete. 25.00 25.00 Per Sqm etture g if eed cement en,pile ne likes and	

Item.no	Description of items		No		L	В	Н	Quantity	Area Content
	Column from top of footing upto top of PL	9	1	1	0.20	0.20	1.65	0.59	
	Plinth Beam	8	1	1	1.50	0.20	0.23	0.55	
							Total =	2.94	
						a	Rs. 7,514.00	Per Cum	Rs. 22,091.16
6/2.5.3	in columns,pillars,posts,st band,beam,girder,bressun using admixture,plasticise	ner,can							
(a)	M15 or prop 1:2:4								
	Column from top of PL upto top of 1st floor	6	1	1	0.20	0.20	3.00	0.72	
	lintel	1	1	1	11.50	0.15	0.10	0.17	
							Total =	0.89	
						@	Rs. 7,692.00	Per Cum	Rs. 6,845.88
(a) (i)	From primary sources like TMT corrosion resistant	е ТАТ	A/SAI	L/ESS.	AR/JIND	AL/SHY	AM/RINL		
(1)	steel.								
	Footing jelly	9	10	2	1.00	-	0.62	111.60	
	Column from footing upto top of PL	9	4	1	1.65	-	0.62	36.83	
	Stirrups	9	13	1	0.64	-	0.39	29.20	
	Plinth beam	12	4	1	2.50	-	0.62	74.40	
	Stirrups	12	20	1	0.86	-	0.39	80.50	
	Column from top of PL upto top of 1st floor	9	4	1	3.00	-	0.62	66.96	
	Stirrups	9	24	1	0.64	-	0.39	53.91	
	Lintel	1	4	1	11.50	-	0.39	17.94	
	Stirrups	1	92	1	0.24	-	0.22	4.86	
							Total =	476.20	
							Say =	4.76	
						@	Rs. 9,191.00	Per Qtl	Rs. 43,767.54
8/2.10	Providing formwork of or the same for concrete men and propping etcfor heig concrete member not exce	nbers s th of p	o as to ropping	give a	rough fini entering o	sh includi fsupportin	ng centering,shutter g floor to the soffit	ing,strutting	

	Description of items		No		L	В	Н	Quantity	Area Content
(a)	Foundation,footings,bas es of columns,pile cap,raft and mass concrete works etc.								
	Footing	9	2	1	1.00	-	0.20	3.60	
							Total =	3.60	
						æ	Rs. 339.00	Per Sqm	Rs. 1,220.40
2.10(b)	Plinth Beam	12	2	1	2.50	_	0.23	13.80	
2.10(0)	I min beam	12			2.50		Total =	13.80	
						(a)	Rs. 421.00	Per Sqm	Rs. 5,809.80
									<u> </u>
2.10(c)	Column from top of footing upto top of PL	9	2	1	0.20	-	1.65	5.94	
	Column from top of PL upto top of 1st floor	9	2	1	0.20	-	3.00	10.80	
							Total =	16.74	
						(a)	Rs. 573.00	Per Sqm	Rs. 9,592.02
9/4.1	Providing brick soling in brick, sand packed and laid all labour and materials at	d to lev	el and	in pane	l after pre	paring the			
(c)	Stone soling of thickness 100mm								
	Footing	9	1	1	1.00	1.00	-	9.00	
	Plinth wall	8	1	1	1.50	0.40	-	4.80	
	Flooring	1	1	1	5.00	5.00	-	25.00	
							Total =	38.80	
						@	Rs. 378.00	Per Sqm	Rs. 14,666.40
14/4.11.	Stone masonry work in re	etaining	g wall,w	ving wa	ıll,abutme	nt,foundat	tion,steps,plinth etc.		
14/4.11. (b)(ii)	Stone masonry work in re Plinth wall	etaining 8	g wall,w	ring wa	2.30	ent,foundat	tion,steps,plinth etc	4.97	
14/4.11. (b)(ii)	-								
	Plinth wall	8	1	1	2.30	0.45	0.60	4.97	
	Plinth wall	8	1	1	2.30	0.45	0.60	4.97 0.08	Rs. 21,937.20
	Plinth wall Steps Brick nogged wall with 1s complete as directed in su steel of column to be emb (a) Half Brick (~112mm)	8 1 st class aperstruedded	1 2 brick in acture a in ceme	1 1 cemer	2.30 0.90 at mortar sinth up to	0.45 0.30 @ including to 1st floor 1	0.60 0.15 Total = Rs. 4,344.00 racking out joints ar level (protruding M.	4.97 0.08 5.05 Per cum ad curing S rod/Tor	Rs. 21,937.20
(b)(ii)	Plinth wall Steps Brick nogged wall with 1s complete as directed in su steel of column to be emb (a) Half Brick (~112mm) brick nogged wall	8 1 st class aperstrueedded at thick 1	brick in acture a in cemes st class	1 1 cemer	2.30 0.90 at mortar sinth up to	0.45 0.30 @ including to 1st floor 1	0.60 0.15 Total = Rs. 4,344.00 racking out joints ar level (protruding M.	4.97 0.08 5.05 Per cum ad curing S rod/Tor	Rs. 21,937.20
(b)(ii)	Plinth wall Steps Brick nogged wall with 1s complete as directed in su steel of column to be emb (a) Half Brick (~112mm)	8 1 st class aperstrueedded at thick 1	brick in acture a in cemes st class	1 1 cemer	2.30 0.90 at mortar sinth up to	0.45 0.30 @ including to 1st floor 1	0.60 0.15 Total = Rs. 4,344.00 racking out joints ar level (protruding M.	4.97 0.08 5.05 Per cum ad curing S rod/Tor	Rs. 21,937.20

Item.no	Description of items		No		L	В	H	Quantity	Area Content
	D1	2	1	1	1.00	-	2.10	-4.20	
	W1	3	1	1	1.00	-	1.50	-4.50	
	V1	1	1	1	0.60	-	1.20	-0.72	
							Total =	54.78	
						æ	Rs. 825.00	Per sqm	Rs. 45,193.50
11 /2 2	25mm thick cement cond	mata tam							
11/3.2		1	1		5.00	5.00		25.00	
	Flooring	1	1	1	3.00	3.00	- Total =	25.00	
									D . 9 050 00
						@	Rs. 322.00	Per Sqm	Rs. 8,050.00
10 /5 0	15								
12/5.2	15mm thick cement plast Wall with deduction of	er etc							
	doors, windows, ventilators	1	2	1	1.00	54.78	-	109.56	
	Column	9	2	1	0.20	3.00	-	10.80	
	Lintel	1	2	1	11.50	0.10	-	2.30	
							Total =	122.66	
						(a)	Rs. 215.00	Per Sqm	Rs. 26,371.90
13/15.18	Distempering with dry di Wall with deduction of doors, windows, ventilators	stempe.	r etc	1	1.00	54.78	-	109.56	
3/15.18	Wall with deduction of doors, windows,			1 1	1.00	54.78	-	109.56	
13/15.18	Wall with deduction of doors, windows, ventilators	1	2						
13/15.18	Wall with deduction of doors, windows, ventilators Column	1 9	2	1	0.20	3.00	-	10.80	
13/15.18	Wall with deduction of doors, windows, ventilators Column	1 9	2	1	0.20	3.00	-	10.80	Rs. 15,455.16
13/15.18	Wall with deduction of doors, windows, ventilators Column	1 9	2	1	0.20	3.00	- - Total =	10.80 2.30 122.66	Rs. 15,455.16
15/8.2	Wall with deduction of doors, windows, ventilators Column	9 1	2 2 2	1 1	0.20	3.00 0.10 @	- Total = Rs. 126.00	10.80 2.30 122.66 Per Sqm	Rs. 15,455.16
	Wall with deduction of doors, windows, ventilators Column Lintel	9 1	2 2 2	1 1	0.20	3.00 0.10 @	- Total = Rs. 126.00	10.80 2.30 122.66 Per Sqm	Rs. 15,455.16
15/8.2	Wall with deduction of doors, windows, ventilators Column Lintel Providing wood work in	1 9 1 1 frame(c	2 2 2 2 howka	1 1 ts) of d	0.20 11.50	3.00 0.10 @	- Total = Rs. 126.00	10.80 2.30 122.66 Per Sqm	Rs. 15,455.16
15/8.2	Wall with deduction of doors, windows, ventilators Column Lintel Providing wood work in D1	1 9 1 frame(c	2 2 2 howka	1 1 1 ts) of d	0.20 11.50 oors,wind 5.10	3.00 0.10 @ ows,cleres	- Total = Rs. 126.00 story windows etc 0.08	10.80 2.30 122.66 Per Sqm	Rs. 15,455.16
15/8.2	Wall with deduction of doors, windows, ventilators Column Lintel Providing wood work in D1 W1	1 9 1 frame(c 1 3	2 2 2 howka 1 1	1 1 1 tts) of d	0.20 11.50 000rs,wind 5.10 5.00	3.00 0.10 @ ows,cleres 0.13 0.13	- Total = Rs. 126.00 story windows etc 0.08 0.08	10.80 2.30 122.66 Per Sqm 0.05 0.14	Rs. 15,455.16
15/8.2	Wall with deduction of doors, windows, ventilators Column Lintel Providing wood work in D1 W1	1 9 1 frame(c 1 3	2 2 2 howka 1 1	1 1 1 tts) of d	0.20 11.50 000rs,wind 5.10 5.00	3.00 0.10 @ ows,cleres 0.13 0.13	- Total = Rs. 126.00 Story windows etc 0.08 0.08 0.08	10.80 2.30 122.66 Per Sqm 0.05 0.14 0.03	Rs. 15,455.16 Rs. 12,359.38
15/8.2 (d)	Wall with deduction of doors, windows, ventilators Column Lintel Providing wood work in D1 W1 V1	1 9 1 1 sframe(c) 1 3 1	2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.20 11.50 000rs,wind 5.10 5.00 3.60	3.00 0.10 @ ows,cleres 0.13 0.13 0.13	Total = Rs. 126.00 Story windows etc 0.08 0.08 0.08 Total =	10.80 2.30 122.66 Per Sqm 0.05 0.14 0.03 0.22	
15/8.2	Wall with deduction of doors, windows, ventilators Column Lintel Providing wood work in D1 W1	1 9 1 1 sframe(c) 1 3 1	2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.20 11.50 000rs,wind 5.10 5.00 3.60	3.00 0.10 @ ows,cleres 0.13 0.13 0.13	Total = Rs. 126.00 Story windows etc 0.08 0.08 0.08 Total =	10.80 2.30 122.66 Per Sqm 0.05 0.14 0.03 0.22	

Item.no	Description of items		No		L	В	Н	Quantity	Area Content
							Total =	2.10	
						@	Rs. 3,420.00	Per Sqm	Rs. 7,182.00
17/13.1	Providing and fixing clea	r sheet	glass et	c					
(a)	W1	3	1	1	1.00	1.50	-	4.50	
	V1	1	1	1	0.60	1.20	-	0.72	
							Total =	5.22	
						æ	Rs. 1,221.00	Per Sqm	Rs. 6,373.62
18*	providing bomboo post a	and puri	in inclu	ıding la	bour for f	Etting etc			
10		T -		_				52.00	
	Bamboo Purlins	10	1	1	5.20	1.00	-	52.00	
	Truss Section	13	1	1	1.00	1.00	-	13.00	
							Total =	65.00	
						@	Rs. 167.00	Per nos.	Rs. 10,855.00
19/7.3	providing corrugated gal	vanised	iron sh	eet etc					
(a)	0.45mm Thick	1	1	1	5.45	5.45	-	29.70	
							Total =	29.70	
						æ	Rs. 817.00	Per Sqm	Rs. 24,264.90
								Total =	Rs. 3,01,223.14
						I	Deduct 15% contra	ctor profit =	Rs. 2,56,039.67
								Say =	Rs. 2,56,000.00
		(Ru	pees T	wo Lal	chs And F	Fifty Six T	housand Only)		

PREPARED BY:

ASSISTANT ENGINEER (PMAY-G)
DIRECTORATE OF C&RD
MEGHALAYA, SHILLONG.