

PMAY-G MODEL NO.8

**ASSAM TYPE HOUSE - RAISED FLOOR
WITH HALF BRICK WALL
& HALF BAMBOO MAT WALL**



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

MODEL NO. 8 - ASSAM TYPE HOUSE - RAISED FLOOR WITH HALF BRICK WALL & HALF BAMBOO MAT WALL

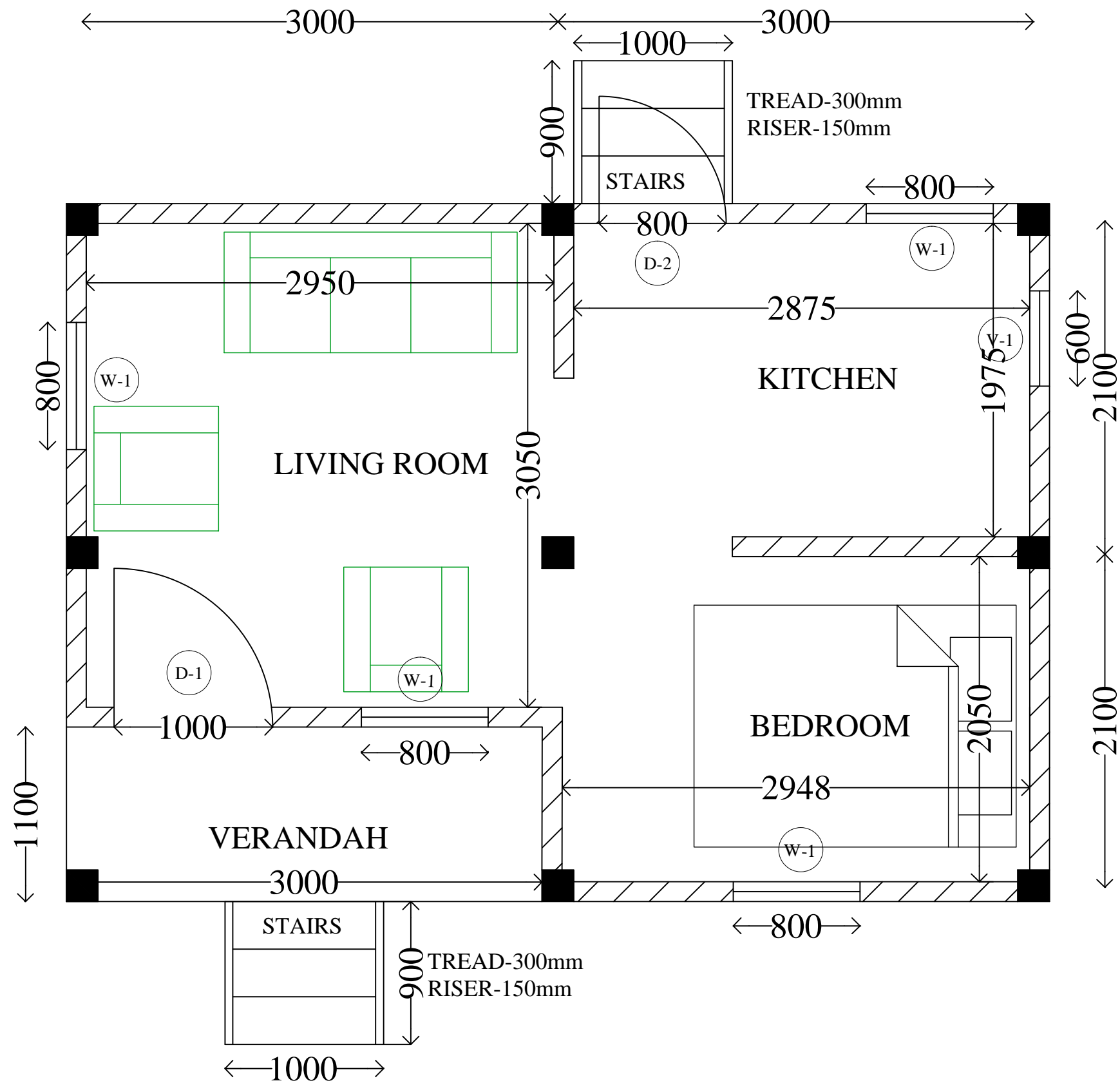
S.No.	GENERAL SPECIFICATIONS:-	DESCRIPTIONS
1.	Foundation	Isolated Footings as per designed.
2.	Plinth Walls/ level	No plinth walls. Structure raised at a height of 1 metres from G.L.
3.	Columns	200mm x 200mm RCC Columns as per designed.
4.	Superstructure	RCC Frame Structure as per designed.
5.	Wallings	125mm thick Brick wall at a height of 1 metres frm R.L. & upper portions of bamboo mat wall 1.9 metres.
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	Local wooden flooring over RCC plinth beams.
10.	Roof Structure	Hipped/ Gable Roof with Bamboo/ wooden 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.

	Description	Area (Sq.m)	Amount (In Rupees)
1.	Ground Floor	25.2	Rs.2,08,200.00
		Total	Rs.2,08,200.00

(Rupees Two Lakhs Eight Thousand And Two Hundred Only)

PREPARED BY:

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



SCHEDULED OF DOORS & WINDOWS

All Dimensions Are in mm

Doors	WXH	Sill
D-1	1000X2100	0
D-2	800X2100	0
Window	WXH	Sill
W-1	800X1500	1000
Ventilation	WXH	Sill
V-1	600X1200	1000

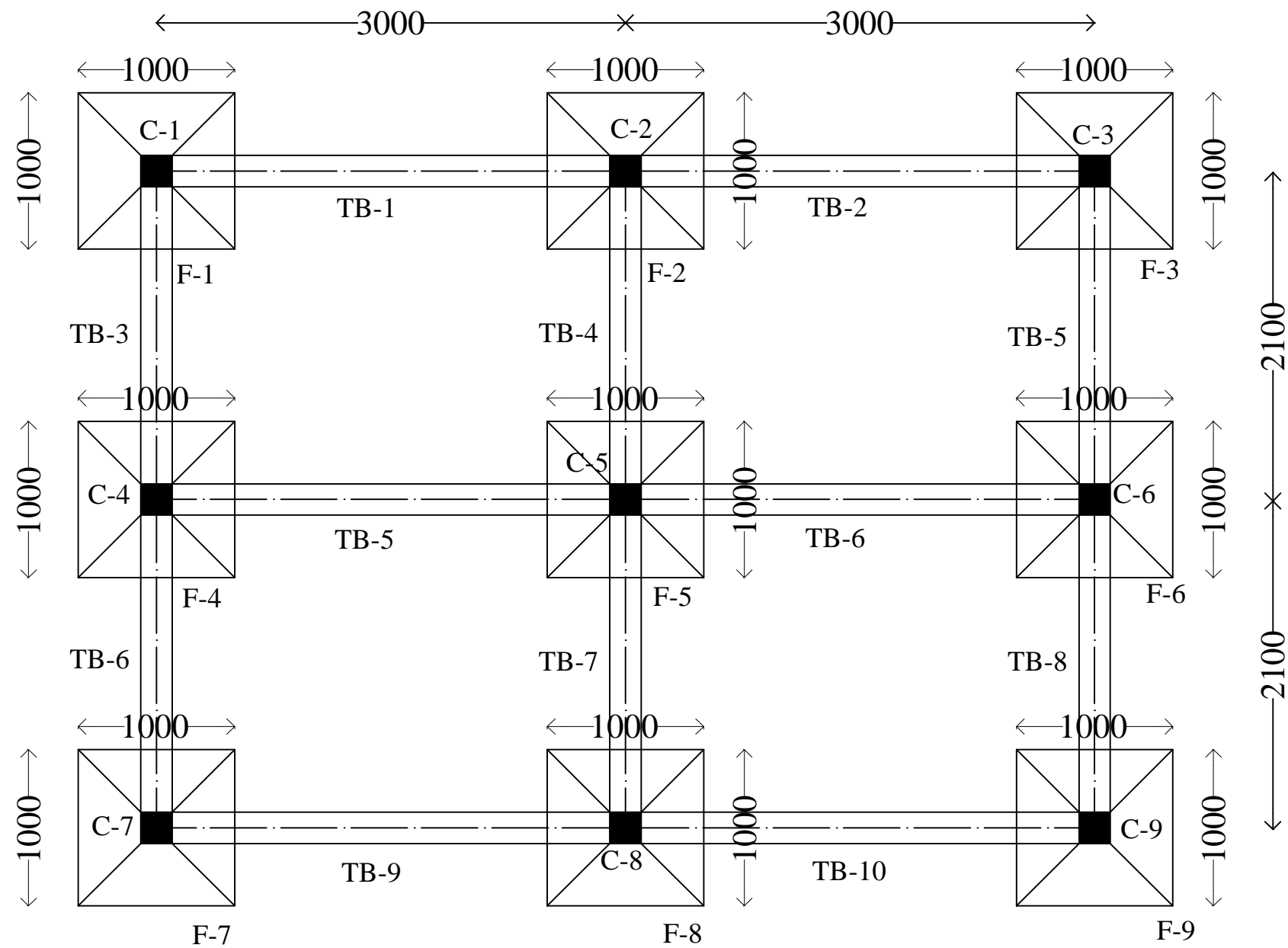
PROJECT : MODEL-NO.8
 PROPOSED PMAY-G RURAL HOUSE
 (ASSAM TYPE HOUSE - RCC COLUMNS, RAISED FLOOR (LOCAL WOODEN FLOORS) WITH HALF BRICK WALL & HALF BAMBOO MAT WALLING WITH CROSS HIPPED ROOF CGI SHEET COVER)

CONTENTS :
 PLAN LAYOUT

PLINTH AREA: 25.2 sq.m (270.9 Sq.ft.)

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

- GENERAL NOTES:**
1. ALL THE DIMENSIONS ARE IN MILLIMETRES 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.

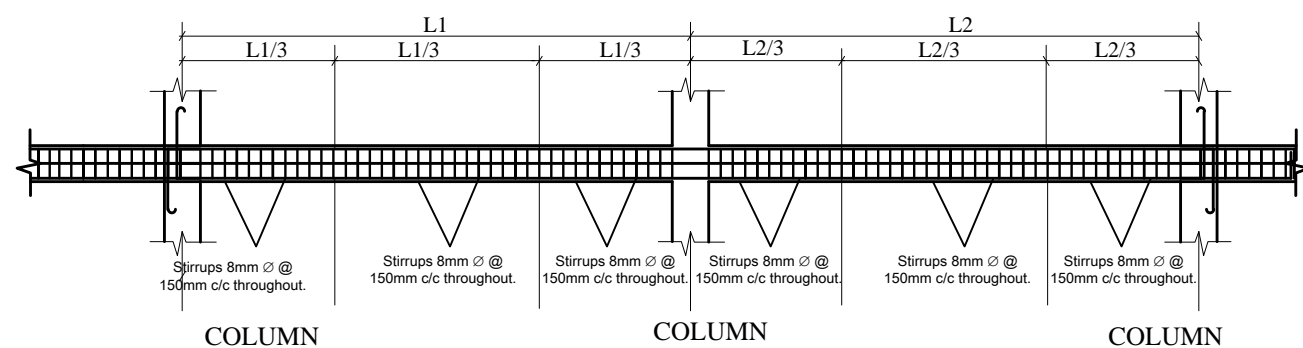


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 (ASSAM TYPE HOUSE - RCC
 COLUMNS, RAISED FLOOR OF
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CONTENTS :
 FOOTING LAYOUT

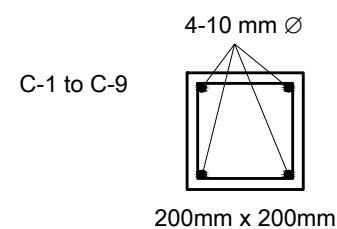
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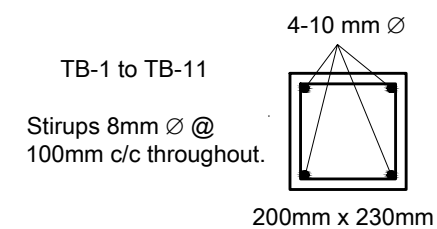


TYPICAL LONG SECTION OF PLINTH BEAM

SCHEDULED OF COLUMNS



SCHEDULED OF TIE BEAMS



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SCHEDULED OF DOORS & WINDOWS

All Dimensions Are in mm

Doors	WXH	Sill
D-1	1000X2100	0
D-2	800X2100	0
Window	WXH	Sill
W-1	800X1500	1000
Ventilation	WXH	Sill
V-1	600X1200	1000

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CONTENTS :
 SECTION ELEVATION

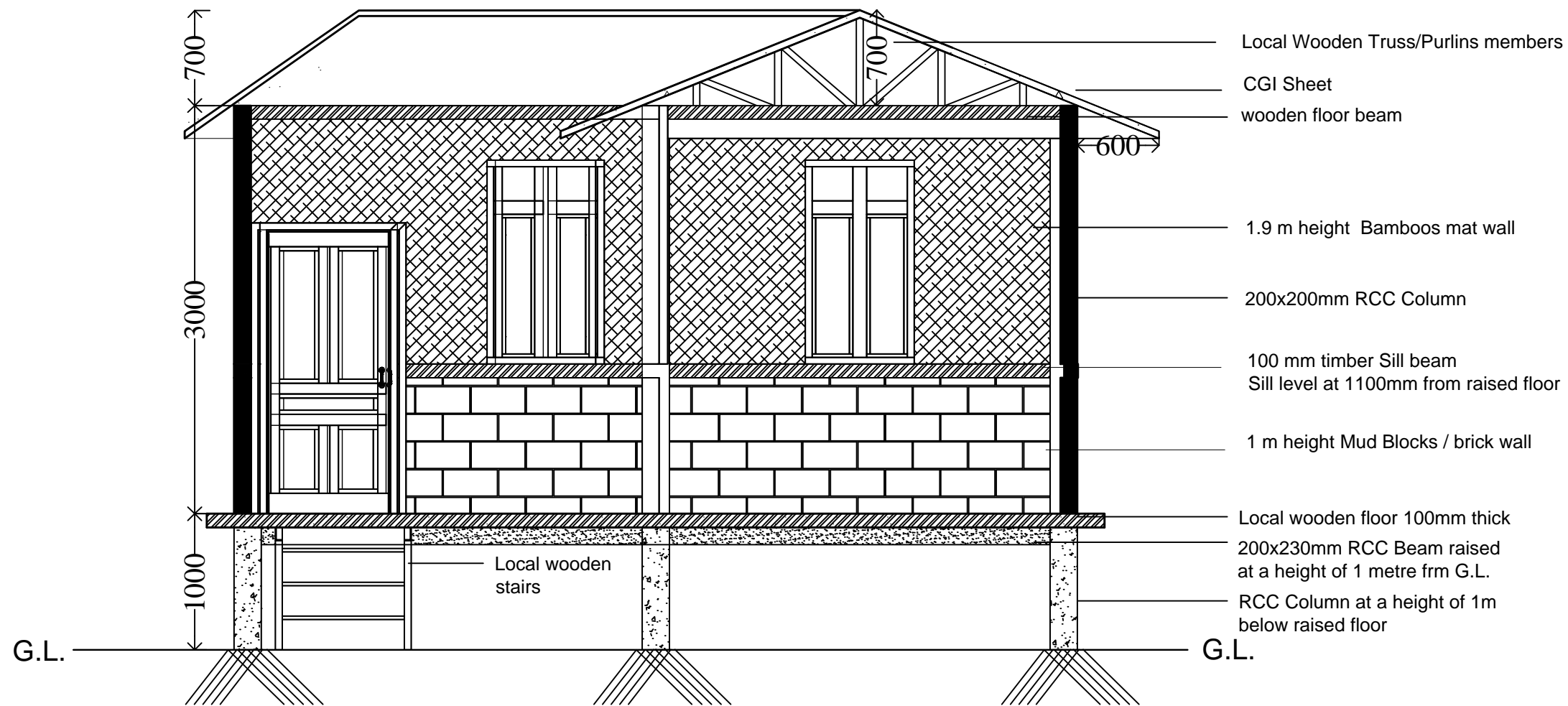
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FRONT VIEW



REAR VIEW



LEFT VIEW



RIGHT VIEW

SCHEDULED OF DOORS & WINDOWS

All Dimensions Are in mm

Doors	WXH	Sill
D-1	1000X2100	0
D-2	800X2100	0
Window	WXH	Sill
W-1	800X1500	1000
Ventilation	WXH	Sill
V-1	600X1200	1000

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CONTENTS :
 FRONT, BACK, LEFT & RIGHT VIEWS

PLINTH AREA: 25.2 sq.m (270.9 Sq.ft.)

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**Detailed Cost Estimate of Proposed PMAY-G Rural House Model No.8
(Assam Type RCC Raised Structure with Half Brick Wall & Half Bamboo Mat Wall)
Rate As Per Govt. of Meghalaya (P.W.D) Schedule Of Rates For Building
Works 2015-2016 (Khasi Hills Rate)**

<i>Item.no</i>	<i>Description of items</i>	<i>No</i>			<i>L</i>	<i>B</i>	<i>H</i>	<i>Quantity</i>	<i>Area Content</i>
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 ordinary soil.								
	Footing	9	1	1	1.00	1.00	1.00	9.00	
							Total =	9.00	
							@ Rs. 231.00	Per Cum	
								Rs. 2,079.00	
2/2.1	Plain cement concrete works with coarse aggregates of sizes 13mm to 32mm in foundation bed for footing steps,walls,brick worksetc.as directed and specified including dewatering if necessary,and curing complete(shuttering where necessary shall be measured and paid seperately)								
(b)	In prop 1:4:8								
	Footing	9	1	1	1.00	1.00	0.08	0.68	
							Total =	0.68	
							@ Rs. 5,688.00	Per Cum	
								Rs. 3,867.84	
3/2.5	Providing and laying concrete in reinforced cement concrete works using concrete mixture machine with coarse sand & 20mm down graded stone aggregate including dewatering if necessary,and curing complete but excluding formwork and reinforcement for reinforced cement concrete work(form work and reinforcement will be measured and paid seperately)								
3/2.5.1	in foundation and sub-structure including footing,columns with base,tie and plinth beam,pile cap,raft slab,base slab,rcc walls,retaining walls,walls of septic tank,inspection pit and the likes and other works not less than 100mm thick up to plinth level.(witout using admixture,plasticiser)								
(a)	Footing	9	1	1	1.00	1.00	0.20	1.80	
	Column from top of footing upto top of RL	9	1	1	0.20	0.20	2.28	0.82	
	Raised Beam	6	1	1	3.00	0.20	0.23	0.83	
		6	1	1	2.10	0.20	0.23	0.58	
							Total =	4.03	
							@ Rs. 7,514.00	Per Cum	
								Rs. 30,281.42	
3/2.5.3	in columns,pillars,posts,struts,suspended floor,roof,landing,shelf and support,balcony,lintel,sill band,beam,girder,bressumer,cantiliver,staircase etc.above plinth level upto 1st floor level(without using admixture,plasticiser)								
(a)	M15 or prop 1:2:4								
	Column from top of RL upto top of 1st floor	8	1	1	0.20	0.20	3.00	0.96	
							Total =	0.96	
							@ Rs. 7,692.00	Per Cum	
								Rs. 7,384.32	

<i>Item.no</i>	<i>Description of items</i>	<i>No</i>			<i>L</i>	<i>B</i>	<i>H</i>	<i>Quantity</i>	<i>Area Content</i>
4/2.8	Supplying,fitting and fixing in position reinforcement bars upto 1st floor level,conforming to relevent i.s code for rcc work/R.B walling including straightening,cleaning,cutting and bending to 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.(rates inclusive of all wastage,lappage,hooks,chairs,anchorage etc.and no measurements for the same is required)								
(a)	From primary sources like TATA/SAIL/ESSAR/JINDAL/SHYAM/RINL								
(i)	TMT corrosion resistant steel.								
	Footing jelly	9	10	2	1.00	-	0.62	111.60	
	Column from footing upto RL	9	4	1	2.50	-	0.62	55.80	
	Stirrups	9	20	1	0.64	-	0.39	44.93	
	Raised beam	6	4	1	3.00	-	0.62	44.64	
	Stirrups	6	24	1	0.64	-	0.39	35.94	
		6	4	1	2.10	-	0.62	31.25	
	Stirrups	6	17	1	0.64	-	0.39	25.46	
	Column from top of RL upto top of 1st floor	8	4	1	3.00	-	0.62	59.52	
	Stirrups	8	24	1	0.64	-	0.39	47.92	
							Total =	457.06	
							Say =	4.57	
						@	Rs. 9,191.00	Per Qtl	Rs. 42,008.38
5/2.10	Providing formwork of ordinary timber planking of thickness not less than 25mm and removal of the same for concrete members so as to give a rough finish including centering,shuttering,strutting and propping etc..for height of propping and centering of supporting floor to the soffit of the concrete member not exceeding 4.0m as specified for the following items:								
(a)	Foundation,footings,bases of columns,pile cap,raft and mass concrete works etc.								
	Footing	9	2	2	1.00	-	0.20	7.20	
							Total =	7.20	
						@	Rs. 339.00	Per Sqm	Rs. 2,440.80
2.10(b)	Raised Beam	6	2	1	3.00	-	0.23	8.28	
		6	2	1	2.10	-	0.23	5.80	
							Total =	14.08	
						@	Rs. 421.00	Per Sqm	Rs. 5,927.68
2.10(c)	Column from top of footing upto top of RL	9	2	2	0.20	-	2.50	18.00	
	Column from top of RL upto top of 1st floor	8	2	2	0.20	-	3.00	19.20	
							Total =	37.20	

Item.no	Description of items	No			L	B	H	Quantity	Area Content
						@	Rs. 573.00	Per Sqm	Rs. 21,315.60
6/4.1	Providing brick soling in foundation and under floor with stone/best quality picked jhama brick,sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering,complete..								
(c)	Stone soling of thickness 100mm								
	Footing	9	1	1	1.00	1.00	-	9.00	
							Total =	9.00	
						@	Rs. 378.00	Per Sqm	Rs. 3,402.00
7*	Brick nogged wall with 1st class brick in cement mortar including racking out joints and curing complete as directed in superstructure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embedded in cement mortar and will be measured and paid separately)								
	(a) Half Brick (~112mm) thick 1st class brick nogged wall								
	(iv) In proportion 1:6 (1 cement : 6 sand)								
	Wall	4	1	1	2.80	-	1	11.20	
		3	1	1	1.90	-	1	5.70	
		2	1	1	1.00	-	1	2.00	
	Deduct door								
	D1	1	1	1	1.00	-	1.00	-1.00	
	D2	1	1	1	0.80	-	1.00	-0.80	
							Total =	17.10	
						@	Rs. 825.00	Per sqm	Rs. 14,107.50
8*	Providing Bamboo Mat Sheet etc...								
		4	1	1	2.80	-	1.9	21.28	
		3	1	1	1.90	-	1.9	10.83	
		2	1	1	1.00	-	1.9	3.80	
	Deduct Window								
	W1	4	1	1	0.80	-	1.50	-4.80	
	V1	1	1	1	0.60	-	1.20	-0.72	
							Total =	30.39	
						@	Rs. 150.00	Per sqm	Rs. 4,558.50
9/8.2	Providing wood work in frame(chowkats) of doors, windows, clerestory windows etc...								
(d)	D1	1	1	1	5.20	0.13	0.08	0.05	
	D2	1	1	1	5.00	0.13	0.08	0.05	

<i>Item.no</i>	<i>Description of items</i>	<i>No</i>			<i>L</i>	<i>B</i>	<i>H</i>	<i>Quantity</i>	<i>Area Content</i>
	W1	4	1	1	4.60	0.13	0.08	0.17	
	V1	1	1	1	3.60	0.13	0.08	0.03	
							<i>Total =</i>	<i>0.30</i>	
						@	Rs. 56,179.00	<i>Per cum</i>	Rs. 16,853.70
10/3.14	Wooden planking in flooring including fixing to wooden frame with iron screws complete (base of wooden to be measured and paid seperately)								
(f)	25mm thick White pine wood plank								
	Floor	1	1	1	6.20	4.40	-	27.28	
							<i>Total =</i>	<i>27.28</i>	
						@	Rs. 1,291.00	<i>Per cum</i>	Rs. 35,218.48
11/8.19	Providing,fitting and fixing full panelled doors/windows etc...								
(d)35mm thick	Ground floor								
	D1	1	1	1	1.00	2.10	-	2.10	
	D2	1	1	1	0.80	2.10	-	1.68	
							<i>Total =</i>	<i>3.78</i>	
						@	Rs. 3,420.00	<i>Per Sqm</i>	Rs. 12,927.60
12/13.1	Providing and fixing clear sheet glass etc...								
(b)	W1	4	1	1	0.80	1.50	-	4.80	
	V1	1	1	1	0.20	1.20	-	0.24	
							<i>Total =</i>	<i>5.04</i>	
						@	Rs. 1,307.00	<i>Per Sqm</i>	Rs. 6,587.28
13*	providing bomboo post and purlin including labour for fitting etc...								
	Truss	25	1	1	1.00	1.00	-	25.00	
	Purlins	8	1	1	4.80	1.00	-	38.40	
							<i>Total =</i>	<i>63.40</i>	
						@	Rs. 167.00	<i>Per nos.</i>	Rs. 10,587.80
14/7.3	providing corrugated galvanised iron sheet etc...								
(a)		1	1	1	6.60	4.70	-	31.02	
							<i>Total =</i>	<i>31.02</i>	
						@	Rs. 817.00	<i>Per Sqm</i>	Rs. 25,343.34

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								Total =	Rs. 2,44,891.24
								Deduct 15% contractor profit =	Rs. 2,08,157.55
								Say =	Rs. 2,08,200.00
(Rupees Two Lakhs Eight Thousand And Two Hundred Only)									

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