

DETAILED ESTIMATE

PROPOSED CONSTRUCTION OF R.C.C. MARKET UNDER FOURTH ASSAM FINANCE
COMMISSION UNDER JORHAT ZILLA PARISHAD

GROUND FLOOR

Sl no.	ITEM:						Total Qty	Unit	Rate	Amount
	No	L	B	H	Qty					
1/1.1	Earth work in excavation in foundation trenches of walls, columns, steps etc. including refilling the quantity after completion of work—in ordinary soil									
	post	18	1.20	1.2	1.5	38.88	38.88	CM	64.67	2514.37
2/4.1.1	Providing soling in foundation and under floor at all levels with jhama bricks—brick flat soling.									
	footing	18	1.20	1.20		25.92				
	T/Beam,S	12	4.35	0.25		13.05				
	T/Beam,L	3	16.15	0.25		12.1125				
	Steps	2	17.65	1.05		37.065				
	Floor	1	16.15	8.5		137.275				
	TOTAL					225.423	225.43	Sqm	286.37	64556.39
3/2.1.1	PCC works in prop. 1:4:8 with coarse agg. of size 13 mm to 32mm foundation bed of footing,steps,wallsetc.									
	Footing	18	1.20	1.2	0.1	2.592				
	Steps	2	17.65	1.05	0.1	3.707				
	T/Beam(S)	12	4.35	0.25	0.05	0.6525				
	T/Beam(L)	3	16.15	0.25	0.05	0.60563				
	TOTAL					7.55663	7.56	CM	3398.10	25679.44
4/18.1.1	Supplying, fitting, fixing in position reinf. bars including cutting bending to proper shape and length and binding with 20G black wire --torsteel.									
		No	L	Wt	Bars	Kg				
	Jali,10mm	18	1.20	0.62	16	214.272				
	Post16mm	18	6.15	1.58	8	1399.25				
	T/Beam(L),16mm	3	17.70	1.58	6	503.388				
	T/Beam(S),16mm	6	9.30	1.58	6	528.984				
	Lintel10mm	2	17.60	0.62	5	109.12				
		2	9.20	0.62	5	57.04				
	Lintel stair	2	4.75	0.62	4	23.56				
	Beam16mm	3	19.00	1.58	6	540.36				
	Beam16mm	6	10.90	1.58	6	619.992				
	Stair beam	2	3.60	1.58	6	68.256				
	Chajja	2	57.60	0.62	6	428.544				
	Chajja	2	0.60	0.62	576	428.544				

	Slab, 10mm & 8mm	by thumb rule @ 11kg/Sqm.				2167.00				
	6mm dia									
	Post	16	0.85	0.22	33	98.736				
	T/Beam, 5" gap	796	1.05	0.22		183.876				
	Beam, 5" gap	954	1.05	0.22		220.374				
	Lintel, 5" gap	430	0.45	0.22		42.57				
	Lintel stair	68	0.45	0.22		6.732				
	Total					7640.6				
	Adding 10% for wastage, Lapping etc. = 8405 kg, say 84.1 Qtl						84.10	Qtl	4746.44	399175.60
5/3.1.	Providing form work of ordinary timber shuttering to give a rough finish in sub structure--25mm th.									
1.1	(A) sub structure									
	Footing	18	1.20	0.15	4	12.96				
	Post	18	1.65	0.25	4	29.7				
	T/Beam(L)	3	17.40	0.3	2	31.32				
	T/Beam(S)	6	9.00	0.3	2	32.4				
	Total					106.38	95.67	Sqm	140.84	13474.16
3.1.1.	(b) Above PL									
5	Post	18	3.00	0.25	4	54				
	Lintel	1	52.80	0.45		23.76				
	Lintel(stair	2	4.50	0.15	2	2.7				
	Beam(L)	3	18.70	0.85		47.685				
	Beam(S)	6	10.30	0.85		52.53				
	Slab	1	10.30	18.7		192.61				
	Stair	30	1.50	0.15		6.75				
		1	3.00	4.5		13.5				
	Chajja	2	52.80	0.45		47.52				
	Total					441.055	441.10	Sqm	243.80	107540.18
6/2.2.	Providing and laying RCC works in Prop. 1:2:4 including curing etc. complete as directed.									
1(a)	(a) Upto PL									
	Footing	18	1.20	1.2	0.15	3.888				
	Base	18	$1/2(1.1 \times 1.1 + 0.4 \times 0.4) \times 0.3$		3.7					
	Post	18	1.25	0.3	0.3	2.025				
	T/beam(L)	3	17.40	0.25	0.3	3.915				
	T/beam(S)	6	9.00	0.25	0.3	4.05				
	Total					17.578	17.60	Cum.	4735.15	83338.64
2.2.1	(b) Above PL									
	Post	18	3.00	0.25	0.25	3.375				
	Beam(S)	6	10.45	0.25	0.3	4.7025				
	Beam(L)	3	18.85	0.25	0.3	4.24125				
	Slab	1	18.70	10.3	0.1	19.261				
	Stair	1/2x2	1.50	0.15	0.3	0.675				
	Stair beam	2	3.00	0.3	0.25	0.675				

	Lintel	1	52.80	0.15	0.15	1.188					
	Lintel stair	2	4.50	0.15	0.15	0.2025					
	Drop Chajja	2	57.60	0.45	0.08	4.1472					
	Total					38.4675	38.47	Cm	4929.20	189626.32	
7/4.1 5(c)	Brick work in cement mortar in prop 1:5 with first class brick including racking out joints and curing complete upto plinth level										
	Wall	3	16.15	0.6	0.25	7.2675					
	Wall	6	8.50	0.6	0.25	7.65					
	Steps	1	3.30	1.2	0.5	1.98					
	total					16.8975	16.90	Cm	4423.20	74752.08	
8/1.3(c)	Sand filling in layers not more than 15cm thick including breaking clods, dressing, ramming etc. complete by truck carriage.										
	1	17.4	9.00	0.75		117.45	117.50	Cm	322.75	37923.13	
9/4.1. 7	112mm thick 1 st class brick nogged wall in cement mortar 1:4 including racking out joints and curing complete.										
	wall(stair)	2	4.25	3.3		28.05					
		1	2.70	3.3		8.91					
	Wall(above lintel)	2	8.50	1.1		18.7					
		2	16.15	1.1		35.53					
	total					91.19	91.20	Sqm	518.62	47298.14	
10/6. 2.2	15mm thick cement plaster in single coat on brick/ concrete wall finished even and smooth including curing complete in 1:4										
	wall	2	91.20			182.4					
	Slab	1	18.85	10.45		196.983					
	Post	18	3.30	0.25	4	59.4					
	Chajja	4	57.60	0.5		115.2					
	Plinth	1	26.90	0.65		17.485					
	Lintel	1	52.80	0.45		23.76					
	Staircase	2	3.30	4.5		29.7					
	Steps	1	3.30	1.5		4.95	629.88	Sqm	111.25	70073.87	
11/5. 1.4	65 mm thick PCC flooring in prop. 1:2:4 finished with a floating coat of neat cement finish including										
	floor	1	17.65	9.25		163.26	163.30	sqm	449.48	73400.08	
12/19. 2	Providing plinth protection with bricks flat laid in cement mortar 1:4 and finished with 15mm th. Cement plaster in prop. 1:2 with a floating coat of										
	Area	2	19.05	0.75		28.575					
		2	9.25	0.75		13.875					
	Total					42.45	42.50	sqm	458.06	19467.55	

13/1.4	Raising low site around the building with appvd soil obtained from outside by truck carriage etc.										
	qty(Sides)	2	30.5	1.80	0.55	60.39					
		2	18.5	1.80	0.55	36.63					
	Approach	1	30.5	2.50	0.35	26.6875					
	Total					123.708	123.80	cm	205.52	25443.38	
14/13 .3.2	Providing two coats of acrylic water based wall putty concrete/ cement plaster/ brick walls and ceilings both internal and external after removing all loosely material as specified and directed by the department.										
	Area					630	630.00	sqm	41.70	26271.00	
15/13 .2.3	Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surface free from mortar dropping and other foreign matter and including preparing the suaface even and sand paper smooth.						630.00				
								sqm	32.63	20556.90	
16/13 .4.1	Wall painting (two coats) with acrylic emulsion paint- approved brand and manufacture on new surface to give an even shade after thoroughly brushing the surfaces.						630.00				
								Sqm	58.42	36804.60	
17/18 .5.3	Providing fitting fixing MS door with all locking arrangement etc. all complete including Painting over ROM Primer etc.1.5x2.4m in the Staircase						3.60				
								sqm	2392.10	8611.56	
TOTAL CIVIL COST OF GROUND FLOOR									Rs.	1326507.40	

FIRST FLOOR

Sl no.	ITEM:						Total Qty	Unit	Rate	Amount
	No	L	B	H	Qty					
1/18. 1.1	Supplying, fitting, fixing in position reinf. bars including cutting bending to proper shape and length and binding with 20G black wire --torsteel.									
	No	L	Wt	Bars	Kg					
	Post12mm	18	5.25	0.89	6	504.63				
	Lintel10mm	2	17.60	0.62	4	87.296				
		2	9.20	0.62	4	45.632				
	lintel stair	2	4.70	0.62	4	23.312				
	Post plate,10mm	2	17.60	0.62	4	87.296				
		2	9.20	0.62	4	45.632				

	Chajja	2	53.00	0.62	6	394.32				
	Chajja	2	0.60	0.62	422	313.968				
	6mm dia									
	Post	16	0.85	0.22	23	68.816				
	Post plate,5" gap	430	0.45	0.22		42.57				
	Lintel,5" gap	430	0.45	0.22		42.57				
	Lintel stair	60	0.45	0.22		5.94				
	Total					1661.98				
	Adding 10% for wastage, Lapping etc.= 1828 kg, say 18.3 Qtl						18.30	Qtl	4779.54	87465.58
2/3.1.1.5	Providing form work of ordinary timber shuttering to give a rough finish in first floor--25mm th.									
	Post	18	3.00	0.25	4	54				
	Lintel	1	52.80	0.45		23.76				
	Lintel stair	2	4.50	0.15	2	2.7				
	postplate	1	52.80	0.45		23.76				
	Chajja	2	57.60	0.5		57.6				
	Total					161.82	161.80	Sqm.	263.75	42674.75
3/2.2.1	Providing and laying RCC works in Prop. 1:2:4 including curing etc. complete as directed.									
	Post	18	3.30	0.25	0.25	3.7125				
	postplate	1	52.80	0.15	0.15	1.188				
	Lintel	1	52.80	0.15	0.15	1.188				
	Lintel stair	2	4.50	0.15	0.15	0.2025				
	Drop Chajja	2	57.60	0.45	0.08	4.1472				
	Total	12				10.4382	10.50	Cm	5195.22	54549.81
4/4.1.7	112mm thick 1 st class brick nogged wall in cement mortar 1:4 including racking out joints and curing complete.									
	Wall(L)	2	16.25	3.3		107.25				
	Wall(S)	2	8.50	3.3		56.1				
	Stair	2	4.25	3.3		28.05				
	Gable	2	9.00	1.8	0.5	16.2				
	total					207.6				
	Deduct,W	12	3.00	1.2		43.2				
	V	12	3.00	0.45		16.2				
	Total deducn					59.4				
	Total					148.2	148.2	Sqm.	541.89	80308.10
5/6.2.2	15mm thick cement plaster in single coat on brick/concrete wall finished even and smooth including curing complete in 1:4									
	Wall	2	148.20			296.4				
	Chajja	2	57.60	0.5	2	115.2				
	Post	18	3.30	0.25	4	59.4				0.00
	Total					471	471.00	Sqm.	116.05	54659.55

6/5.1. 2	40 mm thick PCC topping in prop. 1:2:4 finished with a floating coat of neat cement finish including curing.										0.00
	Area	1	18.85	10.45		196.983	197.00	Sqm.	345.32	68028.04	
7/13. 3.2	Providing two coats of acrylic water based wall putty concrete/ cement plaster/ brick walls and ceilings										
	Area					471	471.00	Sqm	41.70	19640.70	
8/8.1. 32	Providing Pre Painted Galvanized Iron Sheet roofing (Dyna roof) at all levels including fitting and fixing										
	area	2	18.85	6.00		226.2	226.2	Sqm.	811.15	183482.13	
9/8.1. 37	Providing Pre Painted Galvanized Iron Sheet (D/roof) at all levels including fitting and fixing with self drilling, self tapping screws complete in 0.60mm										
	length					18.85	18.85	R.m	484.89	9140.18	
10/18 .3.1	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 as directed.										
	Post plate	2	17.50			35.00					
	raftar	12	6.00			72.00					
	king post	6	1.80			10.80					
	tie	6	9.00			54.00					
	purlin	10	18.85			188.50					
	member	2x6	(1.5+1.2+0.9+0.6)			50.40					
	Runner	2	17.50			35.00					
	Total=445.7 rmx3.61Kg/RM=1609 kg,adding 10% for wastage, baseplate etc=1770 kg						17.7	Qtls.	5875.00		103987.50
11	Providing, fitting, fixing timber frame wrought, sawn etc. for Ceiling frame etc. complete										
	(L)	9	17.5	0.05	0.08	0.63					
	(S)	16	9.00	0.05	0.08	0.576					
	Bressumer	2	9.00	0.08	0.1	0.144					
		2	17.50	0.08	0.1	0.28					
	Total					1.63	1.63	CM	29812.40	48594.21	
12	Providing, fitting, fixing AC building Board with necessary spikes, nails etc. with wooden beading etc. complete										0.00
	Area	1	17.50	9.00		157.5	157.5	Sqm	269.44	42436.80	
13	Fitting, Fixing MS grill as per design fixed to wooden frame etc Complete										
	W	12	3.00	1.2	17	734.4					
	V	12	3.00	0.45	17	275.4					
	Total					1009.8	1010	Kg	63.27	63902.70	
14	Providing, Fitting, fixing wooden frame wrought, framed, and fixed in position with PCC etc. complete										
	(V)Vertcl	2x12	0.50	0.08	0.1	0.096					
	Horzntl	2x12	3.00	0.08	0.1	0.576					

	(W)Vertcl	2x12	1.20	0.08	0.1	0.2304					
	Horzntl	2x12	3.00	0.08	0.1	0.576					
	total					1.4784	1.48	cm	46853.38	69343.00	
15/13 .2.3	Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surface free from mortar dropping and other foreign matter and including preparing the suaface even and sand paper smooth.						471.00	Sqm	32.63		15368.73
16/13 .4.1	Wall painting (two coats) with acrylic emulsion paint- approved brand and manufacture on new surface to give an even shade after thoroughly brushing the surfaces.						471.00				
							Sqm	58.42		27515.82	
17/13 .7.2	Applying primary coat over new steel and other metal surface over 100m in width or grith after preparing the surface by cleaning oil, grease, dirt etc.										0.00
	Area	2	3.00	1.2	12	86.4				0.00	
		2	3.00	0.5	12	36	122.4	Sqm.	29.88	3657.31	
18/13 .7.4	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.										0.00
	Area					122.4	122.4	Sqm.	45.80	5605.92	
19/9. 4.1	Providing barge board of size 200x20mm with first class timber including fitting, fixing necessary wood screws etc.										0.00
			61.00				61	RM	224.81	13713.41	
TOTAL CIVIL COST OF FIRST FLOOR						Rs.				994074.24	

Abstract (A)				
1. CIVIL COST OF GROUND FLOOR				1326507.40
2. CIVIL COST OF FIRST FLOOR				994074.24
Total civil cost of the building				2320581.64
Deduct 10% contractor's profit				232058.16
Net amount				2088523.48

Cost difference for increased rate (B)					
(B)		Qty	unit	Rate	Amount
1. Concrete = 66.57 x 6.14bgs= 409 bag		409.00	bag	65.00	26585.00
2. Plaster = 1101Sqmx1.31/10 sqm=144 Bag		144.00	bag	65.00	9360.00
3. Floor = 163.3 Sqm x 1.60/10 sqm = 27 Bag		27.00	bag	65.00	1755.00
4 PCC = 7.6 cm x 4.25 bag/cm = 32 Bag		32	bag	65.00	2080.00
5. Brick work = 16.9 cm x 2.0/ cm = 34 Bag		34.00	bag	65.00	2210.00
6. 112 mm brick wall = 239.4 x 2.13/10 sqm = 51 Bag		51.00	bag	65.00	3315.00
7. TMT Bar = 102.4 qtl		102.40	qtl	1400.00	143360.00
TOTAL		Rs.			188665.00

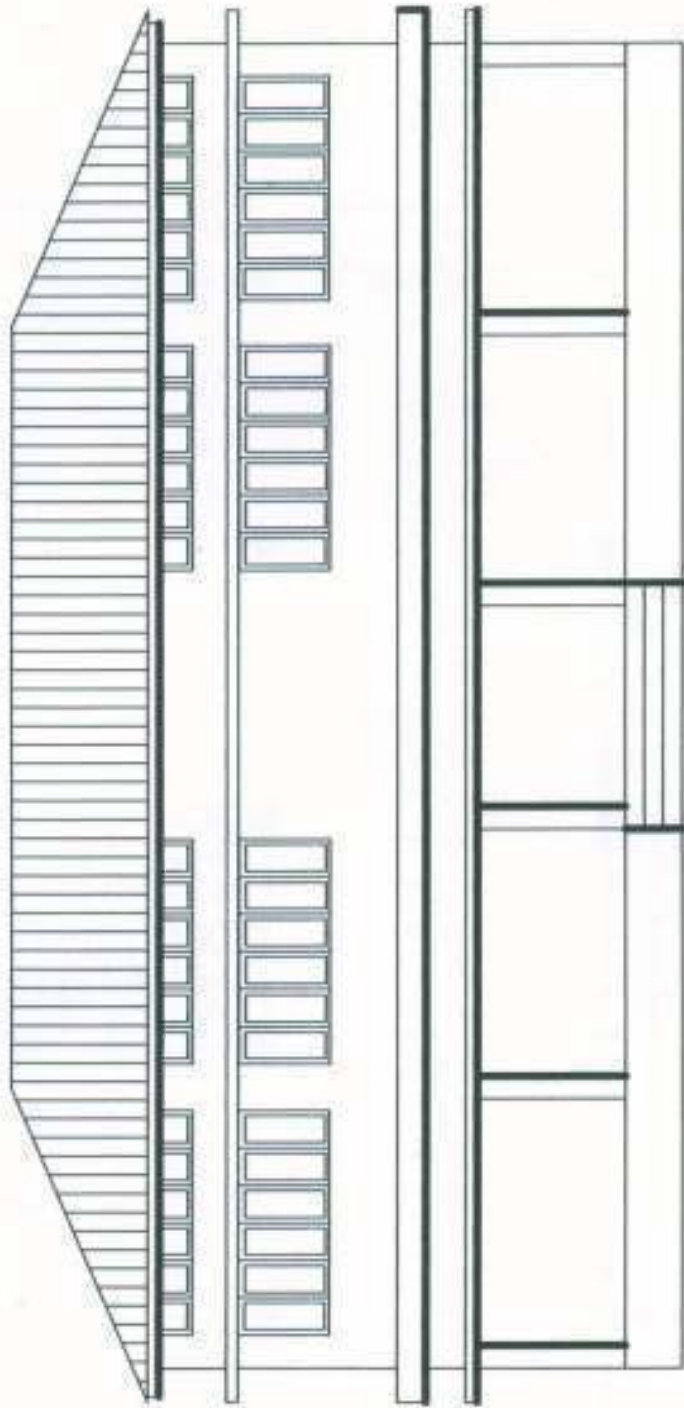
TOTAL CIVIL COST OF THE BUILDING (A) + (B)					2277188.48
SERVICES					
Toilet with septic tank(analysis enclosed)					152000.00
Sanitary fittings					16000.00
Contingency 2%					45543.77
Site cleaning 1% of cost of GF					13265.07
TOTAL COST OF THE BUILDING					Rs. 2503997.32

SAY. Rs. 25,00,000.00 (Rupees Twenty five Lakh)only.

PREPARED BY.

**ER. B. BORDOLOI.
BE, PGDRD, FIV, MIE.**

PROPOSED MARKET UNDER FORT ASSAM FINANCE COMMISSIO.



ELEVATION

PREPARED BY.....



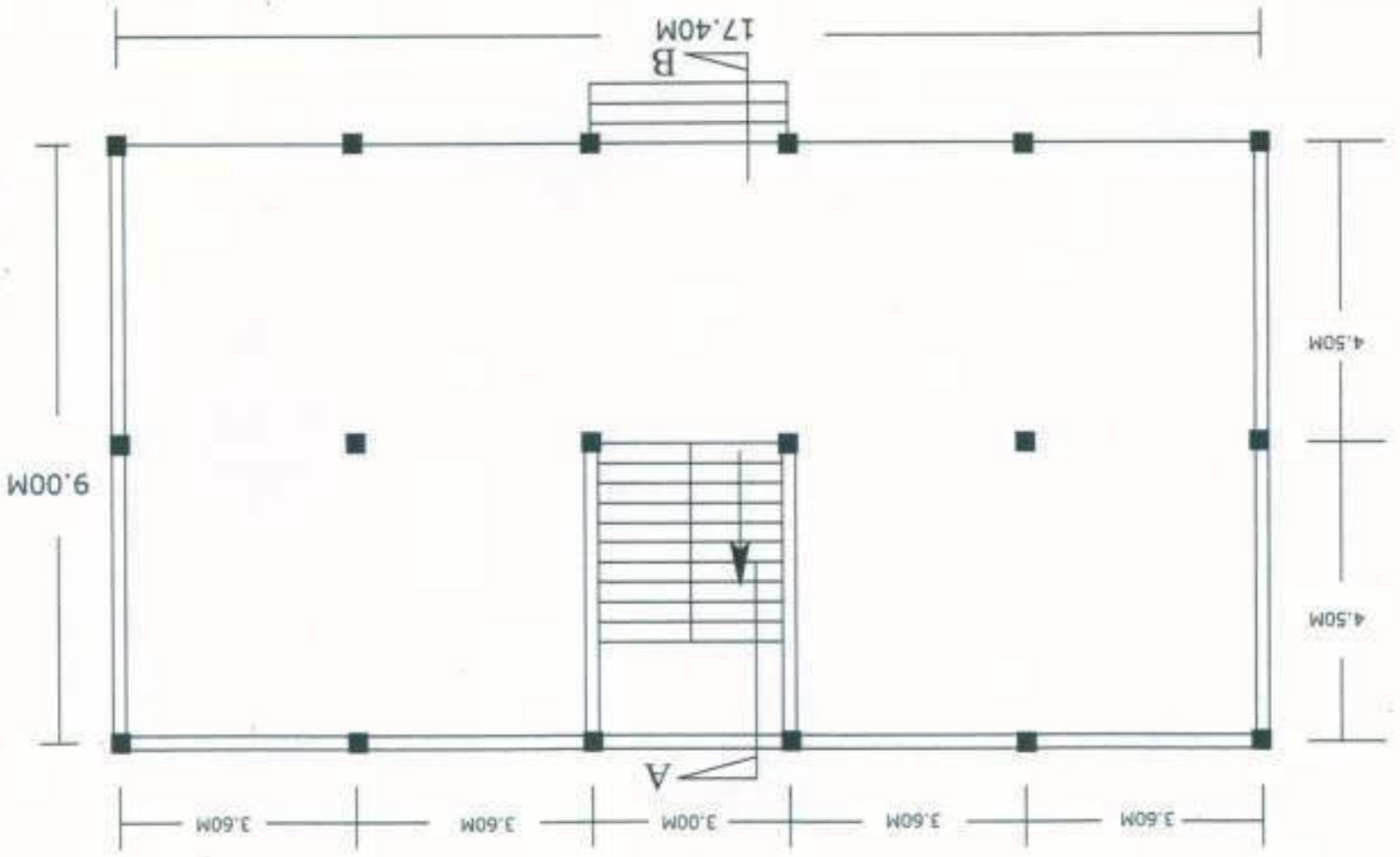
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B. Bordoloi
MIE, PGDDB
ER, B. Bordoloi
Professional Engineer
BE, CIV, MIE, PGDDB

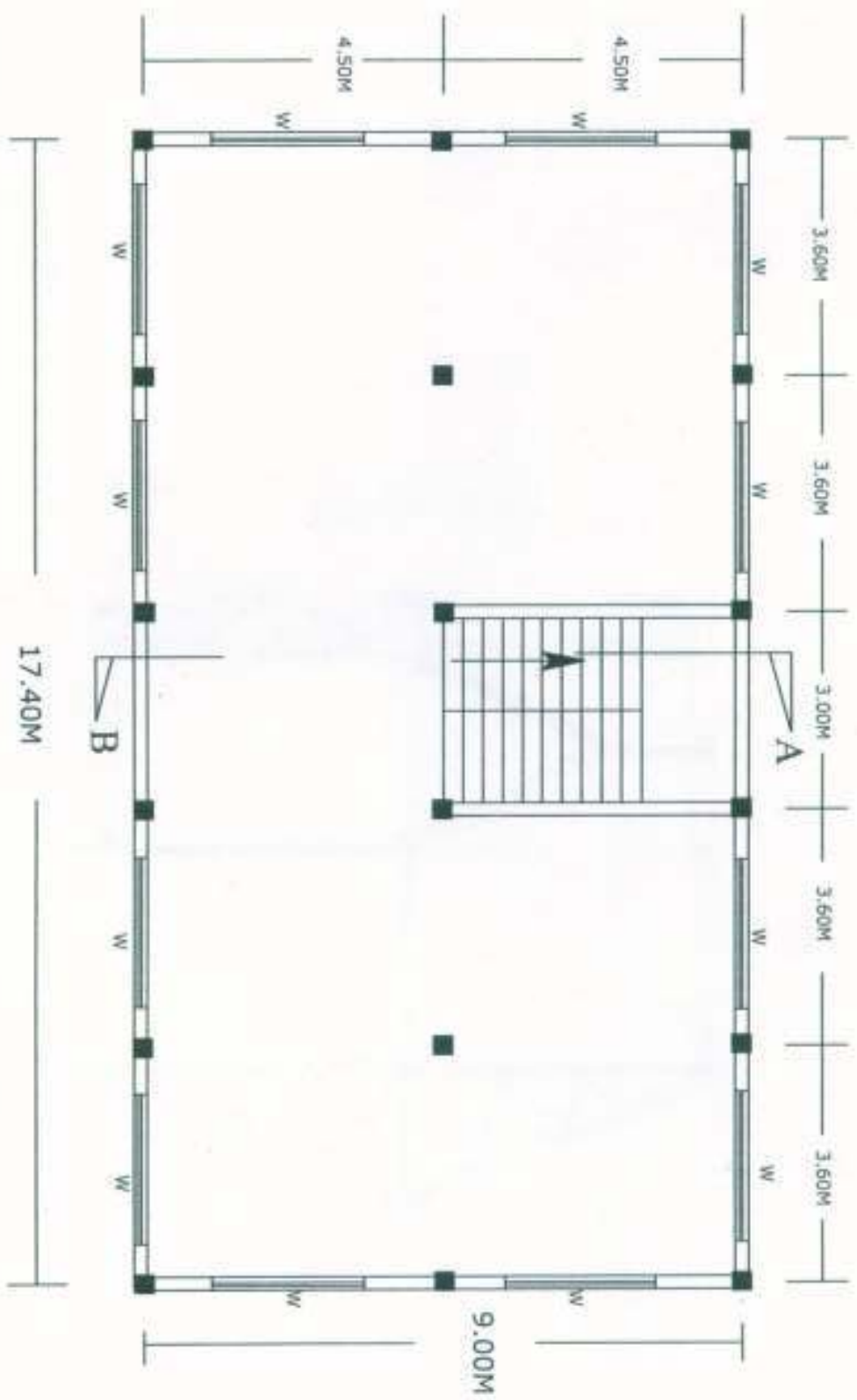
PREPARED BY.....

GR. FLOOR PLAN

DETAILS OF W/V
W=3.00 M X 1.20M
V=3.00M X 0.45M
AREA FLOOR=156.60 SQM



PROPOSED MARKET UNDER FOURT ASSAM FINANCE COMMISSIO.

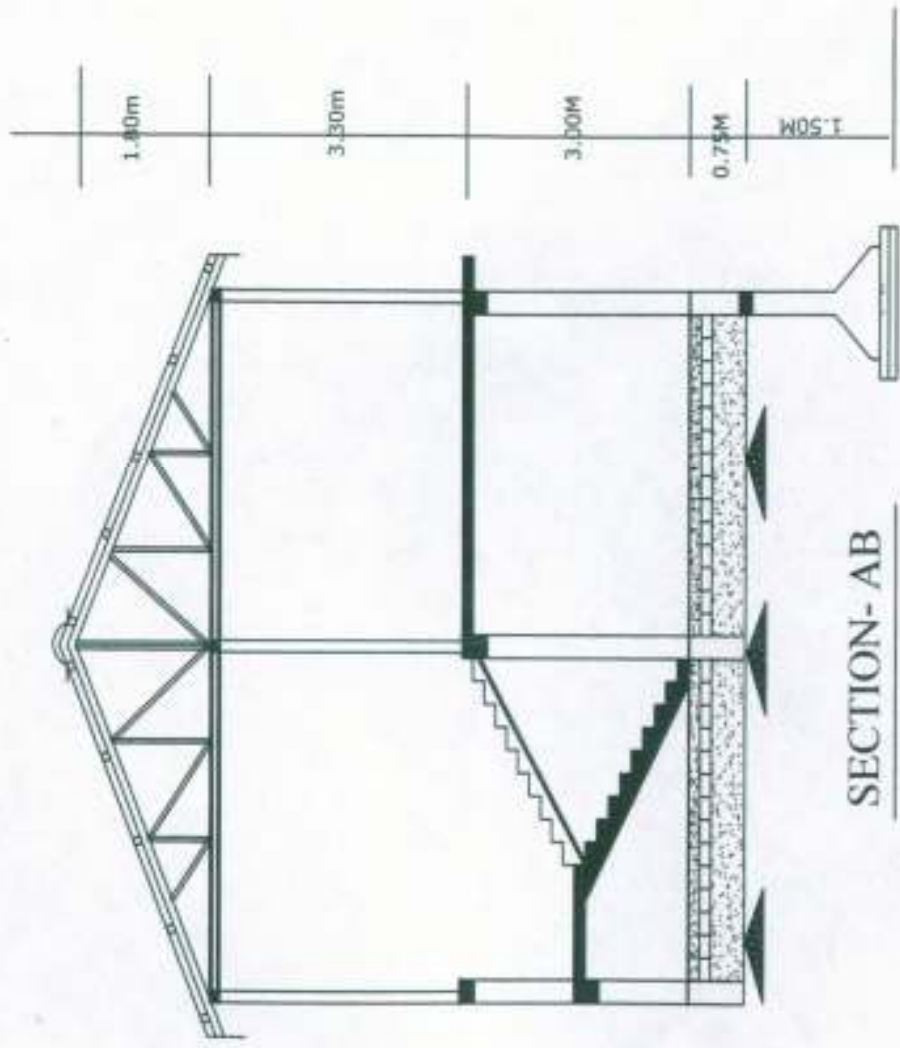


FIRST FLOOR PLAN

DETAIL'S OF W/V.
W=3.00 M X 1.20M
V=3.00M X 0.45M
AREA F.FLOOR=156.60 SQM

PREPARED BY

ER.B.BORDOLUI
BE.FIV.MIE, PGDRD.



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