	OF THE ZILLA PARISHAD, MORIGAON
Name of work: Const	ruction of Market Complex
Name of Programme:	13th Finance Commission Basic Grant, 2012-13
Estimated Amount:	Rs. 25,00,000.00
Name of ZP:	Zilla Parishad, Morigaon
	MORIGAON :: ASSAM

Name of Work : Model Estimate for construction of market complex under different places of

Morigaon District

Head : Thirteenth Finance Commission Basic Grant, 2012-13

Estimated Amount : Rs. 25,00,000.00 (Rupees twenty five lakhs) only.

REPORT

This estimate amounting to Rs. 25,00,000.00 (Rupees twenty five lakhs) only has been framed to show the probable cost construction of market shed under different places of Morigaon District under Thirteenth Finance Commission Basic Grant for the year 2012-13

This detailed estimate has been prepared as per the instruction of the Director, Finance (Economic Affairs) Department, Dispur, Guwahati vide W.T. Message No. FEA (SFC) 165/2010/Pt./82, dated 16/10/2012.

The provision for stalls like scientific Sloghter house (mutton), scientific Sloghter house (chicken), fish stall, vegetable stall, grocery stall, stationary stall, tea stall, cloth stall, Offset Press, Book stall, parlour electrical goods etc. has been made for the unemplyed persons in the market complex.

The following provisions has been made in this estimate: -

- 1. Earth work in excavation
- 2. PCC Work
- 3. RCC Work
- 4. Wood Work in ceiling
- 5. Brick Work
- 6. Plastering, flooring
- 7. Colouring
- 8. Rolling shutter
- 9. Tabular roof trush
- 10. Toilet set
- 11. Electrification

The rates considered in this estimate as per A.P.W.D. schedule of rates for Civil Works (Bldg.) for 2010-11 and analysis rates on the prevailing market price as on when necessary and 10% less for Contractor's Profit.

All works will be carried out as per the A.P.W.D. specification and relevant I.S. code in practice which are current in the state.

Joint Director (Tech.)
Office of the Commissioner,
Panchayat & Rural Development, Assam
Juripar, Panjabari, Guwahati

Junior Engineer Zilla Parishad, Morigaon

MODEL ESTIMATE FOR CONSTRUCTION OF MARKET COMPLEX UNDER GENERAL BASIC GRANT OF 13TH FINANCE COMMISSION BASIC GRANT FOR THE YEAR 2012-13 (1ST INSTALMENT)

1 1.1 Earth work in excavation for foundation trances of wall, retaining wall, column etc. including refilling the quantity as necessary after completion of the work, breaking clocks in return filling, dressing, watering and remming etc. and removal of surplus earth with all lead and lifts as directed and specified. (A) Up to a depth of 2.00m below the existing ground level a) in ordinary soil Post: 40 × 0.90 × 0.90 × 1.00 = 32.40 m³ Step: 1 × 42.00 × 1.00 × 0.20 = 8.40 m³ A0.80 m³ Rs. 64.67 Rs. 2,638.54 1.4 Raising low site or toe side around the building with approved soil obtained from out side by truckcarriage including breaking clocks, dressing etc. complete includingh paying land compensation. Municipal gate fees, if any monopoly duty etc. (Profile measurement tobe taken and 12.5 % deduction for shrinkage to be made from total quantity) etc. complete as directed and specified including forest royshity within a distance of 8.00km (Forest royalty shall be rembursed on production of necessary certificate from the forest Authority duty countersigned from DFO concerned Cher than Gweshali 1 x 30.00 x 18.00 x 0.30 = 162.00 m³ Rs. 205.52 Rs. 33,294.24 2.1.1 Providing soling in foundation and under floor at all level in cluding all cost of labour and materials complete a) Brick flat soiling Post: 40 x 1 x 1.00 x 1.00 = 40.00 m² Rs. 286.37 Rs. 94.273.00 4 2.1.1 Providing and laying PCC work in foundation b) in prop. 1.48 Post: 40 x 1.00 x 1.00 x 0.075 = 3.10 m³ Rs. 286.37 Rs. 94.273.00 5 18.1.1 Supplying fitting and floing reinforcement bars conforming to 15 for RCC work including straightening, cutting and bending to proper shape and length upto 1st floor level. b) ISI approved super ductile TMT bars 1) TATA/SAIL 12mm dia Post: 30 x 4 x 5.50 x 0.89 = 587.40 kg. 10 x 4 x 9.90 x 0.89 = 317.55 kg. 8mm dia Jalli 40 x 12 x 1.00 x 0.89 = 644.36 kg. P/Plate 1 x 4 x 9.90 x 0.89 = 317.55 kg. 8x 1.18,993.64 Rs. 1.18,993.66		Item No.		Description of work						Amount (Rs.)
a) In ordinary soil Post: 40 x 0.90 x 0.90 x 1.00 = 32.40 m³	1	1.1	including refilling the clods in return filling	e quantity ag, dressing,	as necessar watering a	y after com nd remming	pletion of the	e work, breaking		
Post:			, , ,	2.00m belo	w the existir	ng ground le	vel			
Step:			•	40 x	0 90 x	0 90 x	1 00 =	32.40 m ³		
1.4 Raising low site or toe side around the building with approved soil obtained from out side by truckcarriage including breaking clods, dressing etc. complete includingh paying land compensation, Municipal gate fees, if any monopoly duty etc. (Profile measurement tobe taken and 12.5 % deduction for shrinkage to be made from total quantity) etc. complete as directed and specified including forest royalty within a distance of 8.00km (Forest royalty shall be rembursed on production of necessary certificate from the forest Authority duly countersigned from DFO concerned Other than Gawahati										
2			Glop.		12.00 X	1.00 X	0.20	•••	Rs. 64.67	Rs. 2.638.54
4.1.1 Providing soling in foundation and under floor at all level in cluding all cost of labour and materials complete a) Brick flat soiling Post: 40 x 1 x 1.00 x 1.00 = 40.00 m² Step: 1 x 1 x 42.00 x 12.00 = 247.20 m² A = 329.20 m² Rs. 286.37 Rs. 94,273.00 4 2.1.1 Providing and laying PCC work in foundation b) In prop. 1.4.8 Post: 40 x 1.00 x 1.00 x 0.075 = 3.00 m³ Step: 1 x 42.00 x 1.00 x 0.075 = 3.15 m³ 6.15 m³ Rs. 3,398.10 Rs. 20,898.32 5 18.1.1 Supplying fitting and fixing reinforcement bars conforming to IS for RCC work including straightening, cutting and bending to proper shape and length upto 1st floor level. b) ISI approved super ductile TMT bars i) TATA/SAIL 12mm dia Post: 30 x 4 x 5.50 x 0.89 = 587.40 kg. 10 x 4 x 4.50 x 0.89 = 160.20 kg. T/Beam 1 x 4 x 99.00 x 0.89 = 352.44 kg. Lintel 1 x 4 x 181.00 x 0.89 = 644.36 kg. P/Plate 1 x 4 x 89.20 x 0.89 = 317.55 kg. 8mm dia Jalli 40 x 12 x 1.00 x 0.39 = 187.20 kg. 2249.15 kg.	2	1.4	side by truckcarriag paying land comper measurement tobe quantity) etc. comp distance of 8.00km	ge including nsation, Mu taken and 1 lete as dire (Forest roy	breaking on the breaking of the control of the cont	clods, dress fees, if any ction for shr pecified incl e rembursec	ing etc. com	plete includingh duty etc. (Profile made from total royalty within a on of necessary		
labour and materials complete a) Brick flat soiling Post: 40 x 1 x 1.00 x 1.00 = 40.00 m² Step: 1 x 1 x 1 x 20.60 x 12.00 = 247.20 m² Under floor: 1 x 1 x 10.00 x 1.00 = 247.20 m² Variable Vari			Other than Guwahati	1 x	30.00 x	18.00 x	0.30 =	162.00 m ³	Rs. 205.52	Rs. 33,294.24
Post: 40 x	3	4.1.1			and under flo	oor at all lev	el in cluding	all cost of		
Step:			a) Brick flat soiling							
Under floor: 1 x 1 x 20.60 x 12.00 = 247.20 m²			Post:	40 x	1 x			•••		
A = 329.20 m ² Rs. 286.37 Rs. 94,273.00 4 2.1.1 Providing and laying PCC work in foundation b) In prop. 1:4:8 Post: 40 x 1.00 x 1.00 x 0.075 = 3.00 m ³ Step: 1 x 42.00 x 1.00 x 0.075 = 3.15 m ³ Step: 1 x 42.00 x 1.00 x 0.075 = 3.15 m ³ Rs. 3,398.10 Rs. 20,898.32 5 18.1.1 Supplying fitting and fixing reinforcement bars conforming to IS for RCC work including straightening, cutting and bending to proper shape and length upto 1st floor level. b) ISI approved super ductile TMT bars i) TATA/SAIL 12mm dia Post: 30 x 4 x 5.50 x 0.89 = 587.40 kg. 10 x 4 x 4.50 x 0.89 = 160.20 kg. T/Beam 1 x 4 x 99.00 x 0.89 = 352.44 kg. Lintel 1 x 4 x 181.00 x 0.89 = 644.36 kg. P/Plate 1 x 4 x 89.20 x 0.89 = 317.55 kg. 8mm dia Jalli 40 x 12 x 1.00 x 0.39 = 187.20 kg.			•		1 x					
2.1.1 Providing and laying PCC work in foundation b) In prop. 1:4:8			Under floor:	1 x	1 x	20.60 x	12.00 =	247.20 m ²		
b) In prop. 1:4:8 Post: 40 x 1.00 x 1.00 x 0.075 = 3.00 m³ Step: 1 x 42.00 x 1.00 x 0.075 = 3.15 m³ Rs. 3,398.10 Rs. 20,898.32 18.1.1 Supplying fitting and fixing reinforcement bars conforming to IS for RCC work including straightening, cutting and bending to proper shape and length upto 1st floor level. b) ISI approved super ductile TMT bars i) TATA/SAIL 12mm dia Post: 30 x 4 x 5.50 x 0.89 = 587.40 kg. 10 x 4 x 4.50 x 0.89 = 160.20 kg. T/Beam 1 x 4 x 99.00 x 0.89 = 352.44 kg. Lintel 1 x 4 x 181.00 x 0.89 = 644.36 kg. P/Plate 1 x 4 x 89.20 x 0.89 = 317.55 kg. 8mm dia Jalli 40 x 12 x 1.00 x 0.39 = 187.20 kg.		0.4.4		500			A =	329.20 m ²	Rs. 286.37	Rs. 94,273.00
Post:	4	2.1.1		PCC work	in foundatio	n				
Step: 1 x 42.00 x 1.00 x 0.075 = 3.15 m³ 6.15 m³ Rs. 3,398.10 Rs. 20,898.32			,	40 v	1 00 v	1 00 v	0.075 =	3 003		
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i) TATA/SAIL Post: 30 x 4 x 5.50 x 0.89 = 587.40 kg. 10 x 4 x 4.50 x 0.89 = 160.20 kg. T/Beam 1 x 4 x 99.00 x 0.89 = 352.44 kg. Lintel 1 x 4 x 181.00 x 0.89 = 644.36 kg. P/Plate 1 x 4 x 89.20 x 0.89 = 317.55 kg. 8mm dia Jalli 40 x 12 x 1.00 x 0.39 = 187.20 kg. 2249.15 kg.	5	18.1.1	including straighten	•			•	RCC work	1.0. 0,000.10	10. 20,000.02
Post: 30 x 4 x 5.50 x 0.89 = 587.40 kg. 10 x 4 x 4.50 x 0.89 = 160.20 kg. T/Beam 1 x 4 x 99.00 x 0.89 = 352.44 kg. Lintel 1 x 4 x 181.00 x 0.89 = 644.36 kg. P/Plate 1 x 4 x 89.20 x 0.89 = 317.55 kg. 8mm dia Jalli 40 x 12 x 1.00 x 0.39 = 187.20 kg. 2249.15 kg.			,							
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T/Beam 1 x 4 x 99.00 x $0.89 = 352.44 \text{ kg}$. Lintel 1 x 4 x 181.00 x $0.89 = 644.36 \text{ kg}$. P/Plate 1 x 4 x 89.20 x $0.89 = 317.55 \text{ kg}$. 8mm dia Jalli 40 x 12 x 1.00 x $0.39 = 187.20 \text{ kg}$. 2249.15 kg.			ΓU 5 ι.					•		
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Jalli 40 x 12 x 1.00 x 0.39 = 187.20 kg. 2249.15 kg.			P/Plate					•		
2249.15 kg.				40 x	12 x	1.00 x	0.39 =	187.20 ka.		
·							3.55			
\cdot							=	· ·	Rs. 5,290.41	Rs. 1,18,989.36

It	Item No.			Descriptio	n of work			Rate	Amount (Rs.)
		6mm dia							
		Post	30 x	43 x	1.10 x	0.22 =	312.18 kg.		
			10 x	33 x	1.10 x	0.22 =	79.86 kg.		
		T/Beam	1 x	1301 x	1.20 x	0.22 =	343.46 kg.		
		Lintel	1 x	1206 x	0.80 x	0.22 =	212.26 kg.		
		P/Plate	1 x	595 x	0.90 x	0.22 =	117.81 kg.		
							1065.57 kg.		
						=	10.66 Qtl.	Rs. 5,241.78	Rs. 55,854.84
6	3.1.1	Providing from wo In sub structure u	•	timber plan	king so as to	give a rougl	h finish.		
	3.1.1.1	Foundation footinii) Using 25mm th	•	olumn, tie ar	nd the like up	to plinth lev	el		
		Post	40 x	4 x	0.80 x	0.15 =	19.20 m ²		
			40 x	4 x	0.52 x	0.15 =	12.48 m ²		
			40 x	4 x	0.25 x	1.90 =	76.00 m ²		
					0.20 X		107.68 m ²	Rs. 140.84	Rs. 15,165.65
	3112	Sides of tiebeam,	nlanth beam	grade bean	n etc. at or be	low plinth le	•••	110.110.01	1101 10,100.00
	02	ii) Using 25mm th	-	grado souri	. 0.0. 0. 0. 0.	non piinan io			
		Tie Beam	1 x	2 x	199.00 x	0.25 =	99.50 m ²	Rs. 191.27	Rs. 19,031.37
	3.1.1.3	Column pillars, po	ost and struts.						,
		a) Square, rectar vertical face		nal in plan	or any shap	e like Tee/L	. etc.having plan		
		ii) Using 25mm th	ick plank						
		, 0	30 x	4 x	0.25 x	3.20 =	96.00 m ²	Rs. 213.73	Rs. 20,518.08
	3.1.1.4	Sides and soffits and horizontal ties	•	am haunch	ing cantileve	r girder, bre	essumers, lintels		
		a) for depth not ex	xceeding 1.0n	ı					
		Lintel	1 x	2 x	181.00 x	0.15 =	54.30 m ²		
		P/Plate	1 x	2 x	89.20 x	0.20 =	35.68 m ²		
		1 /1 late		2 X	03.20 X	0.20 -	89.98 m ²	Rs. 163.01	Rs. 14,667.64
7	2.2.1	Providing and 1:2:4:(1cement:2 dewatering if necreinforcement for	coarse sand essary, and c	:4 graded suring comp	stone aggreg lete but excl	gate, 20mm	works in prop down) including	100.01	13. 14,007.04
		a) In substructure Foundation, footi retaining wall, wa	ng, columns alls of septic t	with basetic ank, inspec					
		less than 100mm				0.4-	<u> </u>		
		Column	40 x	0.80 x	0.80 x	0.15 =	3.84 m^3		
			40 x	0.52 x	0.52 x	0.15 =	1.62 m ³		
			40 x	0.25 x	1.90 x	0.15 =	2.85 m^3		
			1 x	199.00 x	0.25 x	0.25 =	12.44 m ³		
							20.75 m ³	Rs. 4,734.15	Rs. 98,233

It	tem No.			Description	of work			Rate	Amount (Rs.)
		b) In super structur ii) Columns, pillars balcony, lintel, sill preparing the top s	, posts, strut band, beam	s, suspende , girder, bre	d floor, roof, ssumer4, ca	landing, she	• •		
		Post	30 x 10 x	3.60 x 2.40 x	0.25 x 0.25 x	0.25 = 0.25 =	6.75 m ³ 1.50 m ³		
		Lintel P/Plate	1 x 1 x	181.00 x 89.20 x	0.13 x 0.15 x	0.15 = 0.20 =	3.53 _m ³ 2.68 _m ³		
8	4.1.4	Brick work in cemen necessary, curing co					14.46 m ³ and dewatering if	Rs. 4,929.24	Rs. 71,254.63
		d) In prop 1:6	1 x	65.20 x			14.67 m ³		
			1 x	133.80 x	0.250 x 0.125 x	0.90 = 0.90 =	14.67 m ³ 15.05 m ³		
		Step:	1 x	42.00 x	0.900 x	0.20 =	7.56 m ³		
			1 x 1 x	42.00 x 42.00 x	0.600 x 0.300 x	0.15 = 0.15 =	3.78 _m ³ 1.89 _m ³		
							42.95 m ³	Rs. 4,401.57	Rs. 1,89,058.44
9	2.1.3	Providing and laying 1:1.5:3 with graded approved damp manufacturer inclu	d stone aggre proof admi	egate of 10m xure in properties in properties and properties of the properties of 10m properties of 10	m down nom	ninal size inc	luding providing	Rs. 150.00	Rs. 3,880.50
10	1.3	Earth/Sand filling i carriage, watering payment of land comay be necessary.	, ramming, ompansation,	etc. comple	te as direct	ed and spe	cified including		
		C) With riversand of Under floor:	or silt by truck	carriage inc 1.00 x	cluding loadir 20.60 x	ng and unli/o 12.00 =	ading 247.20 m³	Rs. 322.75	Rs. 79,783.80
11	4.1.7	112mm thick 1st of joints and curing collevel (Protruding Modern the measured and programmer)	omplete as d IS rod/torstee	lirected in sull of column	uper structure	e above plin	th upto 1st floor		
		a) In prop 1:5							
		Walls	1 x 1 x	3 x 2 x	17.00 x 12.00 x	3.60 = 3.60 =	183.60 m ² 86.40 m ²		
		Top Wall	1 x	1 x	82.00 x	1.20 =	98.40 m ²		
		Gabble	2 x	0.5 x	17.00 x	3.00 =	51.00 m ²		
							419.40 m ²	Rs. 499.76	Rs. 2,09,599.34
12	11.1.1	Providing fitting an sections without he 3.15mm lugs 100r cleat, bolting device specified and direct separately).	orizontal glaz mm long em ce, locking a	ring bars, joi beded in Co irrangement	ntsmitred an C blocks had , spring cato	d welded fitt ndles, frictio th as require	ted with 6mm X n stays, joining ed complete as		
		a) Side hung and to i) 6mm clear glass	op hung wind	lows and ver	ntilators				
		V:	1 x	18 x	1.00 x	0.50 =	9.00 m^2	Rs. 4,640.30	Rs. 41,762.70

	Item No.				Rate	Amount (Rs.)			
13	17.3.1	Providing fitting hoist MS black tubes cor including providing M primer as directed.	nforming to	IS code	as per app	proved design	gn and drawing	1	
		17.00M 80.30mm OD	@ Wt. 7.9	2kg/m					
		Tie Beam	1 x	5 x	17.00 x	7.92 =	673.20 kg.		
		60.30mm OD @ Wt.	5.10kg/m				•		
		Rafter	2 x	5 x	10.50 x	5.10 =	535.50 kg.		
			2 x	8 x	2.00 x	5.10 =	163.20 kg.		
		48.30mm OD @ Wt.	4.33kg/m				-		
		Purlin	2 x	6 x	13.00 x	4.33 =	675.48 kg.		
		V/Purlin	2 x	3 x	13.00 x	4.33 =	337.74 kg.		
		Vertical	2 x	1 x	3.00 x	4.33 =	25.98 kg.		
			2 x	1 x	2.10 x	4.33 =	18.19 kg.		
			2 x	1 x	1.80 x	4.33 =	15.59 kg.		
			2 x	1 x	1.50 x	4.33 =	12.99 kg.		
			2 x	1 x	1.20 x	4.33 =	10.39 kg.		
			2 x	1 x	0.85 x	4.33 =	7.36 kg.		
		Slant $2 \times 1 \times 3.50 \times 4.33 = 30.31 \text{ kg}.$							
			2 x	1 x	2.66 x	4.33 =	23.04 kg.		
			2 x	1 x	2.10 x	4.33 =	18.19 kg.		
			2 x	1 x	1.68 x	4.33 =	14.55 kg.		
			2 x	1 x	1.38 x	4.33 =	11.95 kg.		
			2 x	1 x	0.95 x	4.33 =	8.23 kg.		
							2581.88 kg.		
						=	25.82 Qtl.	Rs. 5,875.00	Rs. 1,51,685.17
14	8.1.2	Providing GCI sheet L hooks, bolts and nu excluding cost of roof	ıts with bitu	men washe					
		Main bldg.		2 x	13.00 x	10.50 =	273.00 m ²		
		Verandah:		2 x	13.00 x	2.10 =	54.60 m ²		
			_				327.60 m ²	Rs. 359.88	Rs. 1,17,896.69
15	8.1.4	Providing Galvd. Iron necessary Galvd. Scr b) 0.50mm thick	• •			•		1.0. 000.00	10.1,11,000.00
		i) 150mm lapping					14.00 RM	Rs. 112.23	Rs. 1,571.22
16	9.3.1	Providing wood work hoisted and fixed in puts complete including flats, angle, cleats, both	oosition witl ng kiricide (h splkes, na oilling two c	ails, MS flats oats to unex	s, angle/ clea posed surfac	tswith bolts and ce of timber (MS		
		b) Hollock/Bansum/S	undi						
		, 16 x	4 x	3.60 x	0.05 x	0.075 =	0.86m^3		
		16 x	4 x	3.00 x	0.05 x	0.075 =	0.72 m ³		
		1 x	3 x	12.50 x	0.05 x	0.075 =	0.14 m ³		
		1 x	13 x	2.60 x	0.05 x	0.075 =	0.13 m ³		
				v			1.85 m ³	Rs. 29,812.40	Rs. 55,193.93
							1.00 [[]	110. 20,012.40	130.00,100.00

	Item No.		Г		Rate	Amount (Rs.)			
17	7.2.1	Providing fitting and screws including 1 beadings including be measured and page 1.	st class loca paintings to ti	l wood 5 mber bead	0mm x 12	mm (Hollock	/Bonsum/Sundi)		
		a) 4.00mm thick							
				1 x	17.00 x	12.00 =	204.00 m ²	Rs. 269.44	Rs. 54,965.76
18	9.4.1	Providing barge boatimber including fittir							
							66.00 RM	Rs. 224.81	Rs. 14,837.46
19	5.1.5	65mm thick C.C. flowearing coarse of coarse of coarse of near the state of the stat	ement and pla	stering in		•			
				1 x	12.00 x	20.60 =	247.20 m^2	Rs. 435.43	Rs. 1,07,638.30
20	6.2.2	15mm thick cement interrior plastering uexceeding 80mm gir	ipto 1st floor	level inclu	ding arises,	internal rou			
		c) In cement mortar	1:6						
		,	2 x	2 x	12.00 x	3.60 =	172.80 m ²		
			2 x	3 x	14.40 x	3.60 =	311.04 m ²		
			2 x	82 x	1.20 x	3.60 =	708.48 m ²		
		Step	1 x	1 x	42.00 x	1.00 =	42.00 m^2		
			1 x	2 x	42.00 x	0.30 =	25.20 m^2		
		Upto plinth	1 x	1 x	53.20 x	0.90 =	47.88 m^2		
							1307.40 m ²	Rs. 95.10	Rs. 1,24,333.74
21	13.2.2	(f) Distempering wit and of required shad priming coat of whi droppings and othe sand papered smoo	de on new wal te primer afte r foreign mat	ll surface t r throughl	to give an ev y brushing	ven shade ov the surface f	rer and including free from morter		
							1307.40 m ²	Rs. 62.42	Rs. 81,607.91
22	13.6.3	Applying priming coand including preparatorign matter, sand	aring the surf	face by th			•		
		b) With ready mixed	paint, wood p	orimer (Wh	nite)				
		Rolling Shutter		8 x	3.60 x	2.50 =	72.00 m^2		
				8 x	3.00 x	2.50 =	60.00 m^2		
				4 x	2.50 x	2.50 =	25.00 m ²		
		Berge board		1 x	67.00 x	0.25 =	16.75 m^2		
		Ceiling	1 x	1 x	17.00 x	12.00 =	204.00 m^2		
							377.75 m ²	Rs. 30.91	Rs. 11,676.25

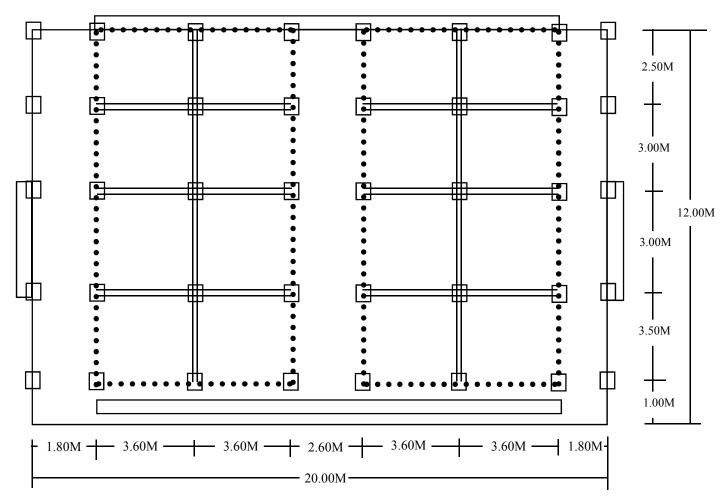
Item	No.		De	scription	of work			Rate	Amount (Rs.)
23	18.4.2	Providing roller	shutter including ne	cessary h	ooks, nuts e	etc. complete	ed as directed		
				8 x	3.60 x	2.50 =	72.00 m ²		
				8 x	3.00 x	2.50 =	60.00 m^2		
				4 x	2.50 x	2.50 =	25.00 m^2		
							157.00 m ²	Rs. 2,563.10	Rs. 4,02,406.70
								Total	Rs. 22,12,716.70
			Dec	duction 10	% for contra	actor's profit			Rs. 2,21,271.67
									Rs. 19,91,445.03
			Add	I 10% inte	ernal and ex	ternal electri	fication		Rs. 2,21,271.67
									Rs. 22,12,716.70
			Add	l continge	ncy and site	preparation		L/S	Rs. 29,284.00
									Rs. 22,42,000.70
			Pro	viding toil	et block (es	timate enclos	sed)		Rs. 2,58,000.00
								Net	Rs. 25,00,000.70
								Say	Rs. 25,00,000.00

Joint Director (Tech.)
Office of the Commissioner,
Panchayat & Rural Development, Assam
Juripar, Panjabari, Guwahati

Junior Engineer Zilla Parishad, Morigaon

PLAN

FOR CONSTRUCTION OF MARKET COMPLEX UNDER GENERAL BASIC GRANT OF 13TH FINANCE COMMISSION FOR THE YEAR 2012-13 (1ST INSTALMENT)

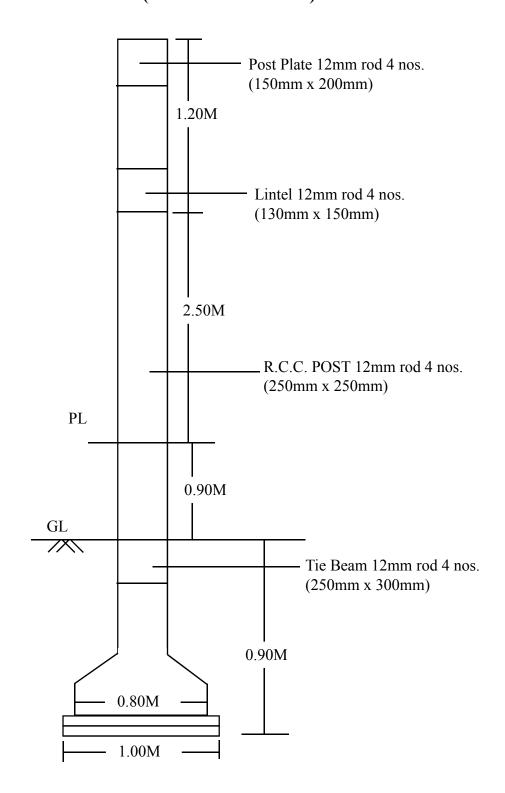


PLAN NOT TO SCALE

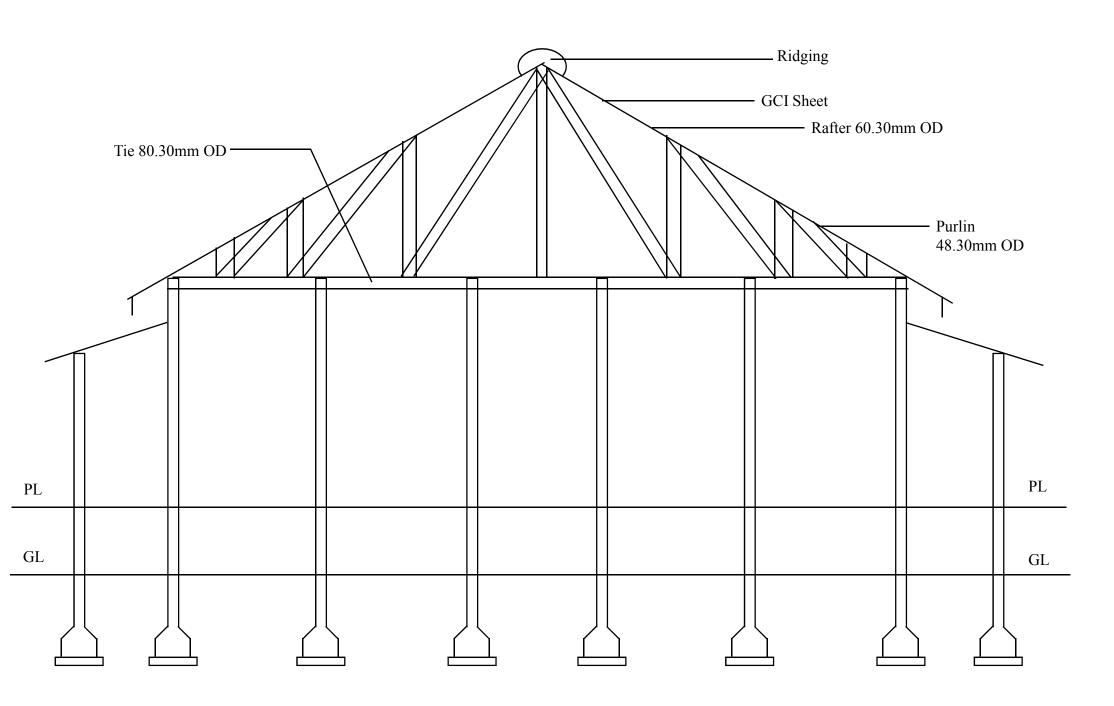
Joint Director (Tech.)
Office of the Commissioner,
Panchayat & Rural Development, Assam,
Juripar, Panjabari, Guwahati

Junior Engineer, Zilla Parishad, Morigaon

CONSTRUCTION OF MARKET COMPLEX UNDER GENERAL BASIC GRANT OF 13TH FINANCE COMMISSION FOR THE YEAR 2012-13 (1ST INSTALMENT)



DETAILS OF COLUMN FOOTING NOT TO SCALE



SECTION AT AA NOT TO SCALE

Name of work: Detailed estimate for the construction of Toilet Block

(1)1.1 Earth work in excavation for foundation trenches of walls, retaining walls, footings of columns, steps and septic tank etc. including refiling (return filling) the quantity as necessary after completing of work, breaking clods in return filling dressing, watering and ramming etc and removal of surplus earth with all lead & lift as directed and specified in following classification of soils including bailing out water where necessary as directed and specified.

Column	6 x	1.20 x	1.20 x	1.50 =	$12.960 m^3$
Tie Beam	2 x	4.82 x	0.30 x	0.30 =	0.868 "
	3 x	2.65 x	0.30 x	0.30 =	0.716 "
Under Wall	2 x	2.60 x	0.30 x	0.30 =	0.468 "
	2 x	1.80 x	0.30 x	0.30 =	0.324 "
			-	Total =	15.336 m ³

- (A) Up to depth of 2.0 m below the existing G.L
- (a) In Ordinary Soil:

@ Rs 64.67 / Cum - Rs 992.00

(2)4.1.1. Providing brick work soiling 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. (a) Brick on flat soling

@ Rs 286.37 / Sqm

Rs

Rs

9,854.00

2,419.00

(3)2.1.1. Plain cement concrete works with coarse aggregate of sizes 13mm to 32 mm in foundation bed for footting, steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (Shuttering works where necessary shall be measured and paid separately.)

(a) In prop.1:3:6 (1 Cement: 3 Coarse sand: 6 Coarse agg. by volume (Using mixture machine)

Col. Footing 6 x 1.20 x 1.20 x 0.075 = 0.648
$$m^3$$
 Under Wall 2 x 2.60 x 0.30 x 0.075 = 0.117 2 x 1.80 x 0.30 x 0.075 = 0.081 a

@ Rs 3733.63 / Cum

(4)18.1.1. 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 bending to proper shapes and length as per details, supplying and binding with 20 G annealed black wire and placing in position with proper blocks, supports chairs, spacers etc. complete (upto 1st floor level).

 $16mm \Phi$ Col^n . $6 \times 4 \times 5.40 = 129.60 \text{ Rm}$

	PB Main	2 x	4 x 6.	38 =	51.04	,,		
		3 x	4 x 3.	98 =	47.76	,,		
	FB Main	2 x	4 x 6.	38 =	51.04	,,		
		3 x	4 x 3.	98 =	47.76	,,		
			Tot	al =	327.20	Rm	_	
12mm $oldsymbol{\Phi}$	FB Extra Top	2 x	2 x 1.	36 =	5.44	Rm		
	1		2 x 1.		6.48			
		3 x			8.52			
				al =	20.44		-	
10mm $oldsymbol{\Phi}$	Lintel	3 x	4 x 6.	.10 =	73.20	Rm		
		3 x			41.76			
		2 x			14.80			
				al =	129.76		-	
8mm $oldsymbol{\Phi}$	Stirrups							
	Col^n .	6 x	38 x 1.	26 -	287.28	Dm		
	PB	$\begin{array}{ccc} 0 & x \\ 2 & x \end{array}$			84.84			
	1 D		$\frac{12 \ x}{21 \ x} = \frac{1}{1}$		63.63			
	FB	$\frac{3}{2}x$			84.84			
	1 D	$\frac{2}{3}x$			63.63			
	Slab	1 x			138.72			
	Olup	1 x	54 x 6.		349.92			
		- "	-	al =	1072.86		-	
6 mm Φ	Lintel	3 x	32 x 0.	55 =	52.80	Rm		
o mini P	Linici	3x			31.35			
		$\frac{3}{2}x$	$10 \ x = 0.$		11.00			
		2 1		al =	95.15		-	
			100	oi i	22.13	Idii		
	16 mm (Ф:		=	516.98	Kg.		
	12 mm (D :		=	18.19	,,		
	10 mm (=	79.15	,,		
	8 mm 4) :		=	418.42	,,	_	
			Tot	al =	1032.74	Kg.		
				=	10.33	-		
	6 mm 4	5 :		=	20.93			
				=	0.21	Qntl.		
	(b)(ii) ISI app	proved - H	YSD bar	=	10.33	Qntl.		
	@ Rs 4746.44 / C	Qntl	-	-	-		Rs	49,031.00
	(c) ISI approv	ved - M.S. 1	Rod.	=	0.21	Qntl.		
	@ Rs 5241.78 / Q		-	_	-	C	Rs	1,101.00

(5)3.1.1 Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and proping etc hight of proping and centering below supporting floor to floor to ceiling not exceeding 4.0 m and removal of the same for in situ reinforced concrete and plain concrete work.

1. Foundation , footi Using 38mm thick pl	•	ıs , pile ca <u>l</u>	o , raft an	ıd mass	concr	ete works etc. (i)		
Column	6 x	4 x	1.20 x	0.25	=	$7.20 m^2$		
	6 x	4 x	0.25 x	1.70	=	10.20 "		
				Total	=	17.40 m ²		
	@ Rs 157.05 / Sc	Įm		-	-	-	Rs	2,733.00
2 Sides of tie beams , 38mm thick	plinth beams , grade	beams etc	at or bel	low plin	ith lev	el (i) Using		
PB	2 x	2 x	0.30 x	4.78	=	$5.74 \mathrm{m}^2$		
	3 x	2 x	0.30 x	2.63	=	4.73 "		
				Total	=	10.47 m ²		
	@ Rs 206.67 / So	qm		-	-		Rs	2,164.00
3. Columns , pillars ,	posts & strut (i) Usi	ing 38mm i	hick plan	ık				
Column	6 x	4 x	0.25 x	2.65	=	15.90 m ²		
				Total	=	15.90 m ²		
	@ Rs 233.94 / So	qm		-	-		Rs	3,720.00
4. Sides and soffits o	of beams ,beam haun	ching, can	tilever, gi	irders ,l	oressu	mers lintelsand		
Lintel	3 x	2 x	0.15 x	2.38	=	2.14m^2		
	3 x	2 x	0.15 x	4.78	=	4.30 "		
	2 x	2 x	0.15 x	1.80	=	1.08 "		
FB	2 x	2 x	0.35 x			6.69 "		
	3 x	2 x	0.35 x	2.63	=	5.52 "		
				Total	=	19.73m^2		
	@ Rs 179.52 / Sc	Įm		-	-		Rs	3,542.00
5. Flat surfaces such balconies and the lik			roofs ,lan	nding, co	antilev	ver slabs, chajjas ,		
Slab	(,	-	6.48 x	4.08	=	26.44 m ²		
				Total		26.44 m ²		
	@ Rs 259.52 / Se	qm		-	-	-	Rs	6,862.00
Providing & laying is sand: 4 coarse agg complete but excludit work. (form work and (a) In Sub-Structure Column Base Column	regate 20mm down ng cost of form work d reinforcement will up to plinth level 6 x 6 x 2 x) including and reinfolded be measured by the	g dewat preement red and po 1.20 x 0.25 x 0.30 x	fering ij for rein aid sepa 0.25 1.70 4.78	f necess inforced erately = = = =	2.160 m ³ 0.638 , 0.717 , 0.592 ,		
	@ D = 472.4.15 / 4			Total	=	4.107m^3	D -	10 442 15
	@ Rs 4734.15 / C	_um					Rs	19,443.15

 $\begin{tabular}{ll} \begin{tabular}{ll} (b) In Super Structure from plinth level up to 1st floor level. \end{tabular}$

(6) 2.2.1

 $6 \ x \ 0.25 \ x \ 0.25 \ x \ 3.00 = 1.125 \ m^3$ Column

(7) 4.1.4. Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed in sub-structure up to plinth level. Prop. 1:5

Wall
$$2 x 0.23 x 0.60 x 4.78 = 1.319 m^{3}$$

$$2 x 0.23 x 0.60 x 2.63 = 0.726 ,$$

$$2 x 0.12 x 1.05 x 5.28 = 1.331 ,$$

$$2 x 0.12 x 1.05 x 1.80 = 0.454 ,$$
Step
$$2 x 1.20 x 0.15 x 0.90 = 0.324 ,$$

$$2 x 1.20 x 0.15 x 0.60 = 0.216 ,$$

$$2 x 1.20 x 0.15 x 0.30 = 0.108 ,$$

$$Total = 4.478 m^{3}$$

@ Rs 4423.20 / Cum

Rs 19,807.09

(8) 4.1.7 112mm thick 1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor (protruding M.S. Rod / Tor Steel of collumn to be embedded in cement mortar and will be measured and paid for separately .(b) In Prop. 1:5

Wall

$$3 \times 2.65 \times 2.38 = 18.92 \text{ m}^2$$
 $1 \times 2.65 \times 4.78 = 12.67$,
 $2 \times 2.20 \times 4.78 = 21.03$,
 $2 \times 2.20 \times 1.80 = 7.92$,
 $2 \times 2.20 \times 1.80 = 60.54 \text{ m}^2$

Deduct

 $D = 4 \times 0.70 \times 2.10 = 5.88 \text{ m}^2$
 $Opening = 2 \times 1.10 \times 2.10 = 4.62$,
 $V = 4 \times 0.60 \times 0.45 = 1.08$,
 $Sub Total = 11.58 \text{ m}^2$
 $Total = 48.96 \text{ m}^2$

@ Rs 499.76 / Sqm

 $Rs 24,468.25$

(9) 6.2.1. 10mm thick cement plaster in single coat on fair side of brick / concrete wall for interior plastering upto 1st floor level including arrises, internal rounded angle not exceeding 80mm in girth and finished even and smooth including curing complete as directed. (c) In cement mortar 1:6

Wall
$$3 x 2.90 x 2.63 = 22.88 m^{2}$$

$$1 x 2.65 x 5.03 = 13.33 ,,$$

$$2 x 2.20 x 5.03 = 22.13 ,,$$

$$2 x 2.20 x 1.80 = 7.92 ,,$$

$$Sub Total = 66.26 m^{2}$$

Deduct D=
$$4 \times 0.70 \times 2.10 = 5.88 \text{ m}^2$$

Opening = $2 \times 1.10 \times 2.10 = 4.62$,
 $V = 4 \times 0.60 \times 0.45 = 1.08$,
Sub Total = 11.58 m^2
Total = 54.68 m^2
@ Rs $76.48 / \text{Sqm}$

(10) 15mm thick cement plaster in single coat on rough side of single or half brick wall for
 6.2.2. interior plastering upto 1st floor level including arrises, internal rounded angle not exceeding 80 mm in girth and finished even and smooth including curing complete as directed. (c) In cement mortar 1:6

(11) 12.4. Providing, fitting and fixing PVC Door shutters of Duroplast DPS 3720 make made from extruded PVC stiles and rails made from rigid PVC multicavity hollow chamber section of size 90mm x 37mm (Tolerance +_ 1mm). The corners of the stiles and rails shall be metred out and fixed to each other with the help of solid plastic L- shaped brackets or M.S. rectangular tubular galvanised two nos of size 200mm x 100mm and 100mm x 100mm at each corner by self tapping steel crews . PVC multicavity hollow section of size 105mm x 37mm shall be fixed in the middle by aluminium cleat and steel screws as lock rail . The section frame shall then be filled with PVC panels of approved colour of size 100mm x 20mm . The two numbers of bright steel rods of 6mm diameter shall be inserted horizontally through stiles and panels with two numbers of checknuts and washers all omplete as specified and directed at all levels . (Door fixtures and fittings to be measured and paid seperately).

D=
$$4 \times 0.70 \times 2.10 = 5.88 \text{ m}^2$$

@ Rs 1221.30 / Sqm - Rs 7,181.24

(12)1.3 Earth/Sand filling in plinth in layer not more than 150mm thick including necessary, carriage, watering, raming etc. complete as directed and specified. Including payment of land compensation, Forest Royalty, Sales Tax and other duties and taxes as may be necessary. (C) With river sand or silt (predominently non plastic) by truck carriage including loading and unloading.

- (13) 65mm thick cement concrete floor consisting of 50mm under layer of cement concrete 1:3:
- 5.1.4. 6 (Icement: 3 coarse sand: 6 coarse agg. Of size 25mm down) and 15mm thick wearing layer in cement concrete 1:1:2 (Icement: coarse sand: 2 coarse agg. Of size 10mm down laid in panels and finished with a floating coat of neat cement finish (using cement slurry for boad @ 2.75Kg Per sq.m of floor area) including curing etc. complete as directed.

$$2 \times 2.64 \times 2.88 = 15.21 \text{ m}^2$$
 @ Rs 449.48 / Sqm - - - Rs 6,836.59

(14) Pre construction anti-termite treatment with aqeous emulsion having concentration 1:19 with chloropirophose solution (tricel or equivalent) and water. This provides emulsion containing 1% chloropirophose solution (by weight) applying in the junction of wall, column with the floor before laying floor and after opration of item no.-26.1.3. above making a channel 30mmx30mm all over the wall and making rod holes @ 11 litre per square meter of vertical plinth wall surface the building so as to soak the soil with emulsion up to the ground level and refill the holes and channel with the original materials obtained in making channels. (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.

From Sl No. 21 =
$$15.21 \text{ m}^2$$

@ Rs $167.20 / \text{Sqm}$ - Rs $2,543.11$

- (15) 5.7.1.2 Providing Ceramic tiles of approved quality size, shape and thickness not less than 13.3.1. 8 mm of Johnson brand on floors, wall, skirtings, risers and treads of steps over cement mortar 15mm thick in prop 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix A Tile (Choksey/Sika/Pedelite/Rouf)/BalEndura, white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering will be measured and paid seperately). (The contractor will have to use the brand approved by the Department. Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls mean both interior and exterior walls).
 - a) Normal Range (Sizes 200 mm x 200 mm and above)

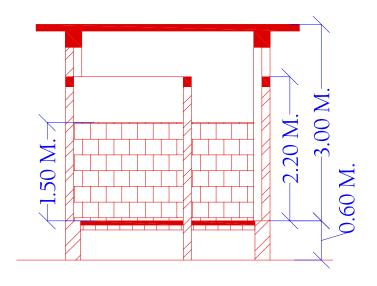
	Wall	3 x	1.50 x	2.63	=	11.84m^2		
		1 x	1.50 x	5.03	=	7.55 "		
		2 x	1.50 x	5.03	=	15.09 "		
		2 x	1.50 x	1.80	=	5.40 "		
			Sub	Total	=	39.88 m ²		
Deduct	D=	4 x	0.70 x	2.10	=	5.88 m ²		
	Opening =	2 x	1.10 <u>x</u>	2.10	=	4.62 "		
			Sub	Total	=	10.50 m ²		
			-	Total	=	29.38 m ²		
	@ Rs 526.37 / Sqm			-	-		Rs	15,464.75

(16) (a) Applying one coat of cement primer of approved brand and manufacture on new wall
 13.2.3. surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.

Deduct =
$$(54.68+58.00)-29.38$$
 = 83.30 m^2
 $Total = 83.30 \text{ m}^2$
@ Rs 32.63 / Sqm

(17) 13.2.3.	and of required sl	with water proofing cement p nade on new wall surface (t t and remains of loops powere	two coats) to		3			
		From Above		=	83.30	m^2		
		@ Rs 40.83 / Sqm	-	-	-		Rs	3,401.14
(18) 15.2.	smooth, free from	,	s and other def	ects and w	ith counte	er sunk		
	() 0	(ii) 250mm x 16mm		=	4	Nos		
		@ Rs 240.37 / nos		-	-		Rs	961.48
	(b) Tower bolts							
		(ii) 250mm x 12mm		=	8	Nos		
		@ Rs 119.59 / nos		-	-		Rs	956.72
	(c)Door handles							
		(ii) 150mm		=	8	Nos		
		@ Rs 75.37 / nos		-	-		Rs	602.96
(19).	Sanitary Fittings (I	L/S)					Rs	19,000.00
			-		Total	=	Rs	2,45,186.19
			Less 10%	Contracto	r' Profit	=	Rs.	24,518.62
			(Cost of Civ	il works	=	Rs.	2,20,667.57
		Internal Elec	ctrification (4 %	cost of civ	vil work)		Rs.	8,826.70
			Sanitation (8 %	cost of civ	vil work)		Rs.	17,653.41
		Wo	ater Supply (5 %	cost of civ			Rs.	11,033.38
					Total =		Rs.	2,58,181.06
						Say =	Rs.	2,58,000.00

PLAN AND SECTION OF TOILET BLOCK



SECTION THROUGH A-A

DETAILS

- 1. FOOTING OF ALL COLUMN = 1.20 X 1.20 M.
- 2. ALL COLUMN SIZE = 0.25 X 0.25 M.

REINF. = 4-16 Ø AND 8 Ø STIRRUPS

3. PLINTH BEAM SIZE = 0.25 X 0.30

REINF. = 4-16 Ø AND 8 Ø STIRRUPS

4. FLOOR BEAM SIZE = 0.25 X 0.35

REINF. = 4-16 Ø AND 8 Ø STIRRUPS

5. LINTEL SIZE = 0.15 X 0.15

REINF. = 4-10 Ø AND 6 Ø STIRRUPS

