GOVT OF ASSAM

DARRANG ZILLA PARISHAD

Name of scheme

Construction of Market shed and infrastructure development at Namkhola Weekly Market under Namkhola G.P., Kalaigaon A.P., Darrang Zilla Parishad.

Name of District : **Darrang.**

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

DARRANG : : ASSAM

Name of Work : Construction of Market Shed and infrastructure development at Namkhola weekly Market.

Name of District : Darrang

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

REPORT

The estimate amounting to Rs. 25,00,000.00 (Rupees twenty five lakhs) only has been prepared by Junior Engineer, Darrang Zilla Parishad to show the probable cost for "Const. of Market Shed and infrastructure development at Namkhola Weekly Market..." 2011-12.

The following provision are provided in this estimate

1. Construction of market Shad.
2. Earth filling.

In the estimate rates are accepted as per schedule of rate of PWD (Building) for all division under Assam PWD 2010-11.

All Work will be carried out as per general specification current in the state of Assam.

Prepared By

Junior Engineer

Darang Zilla Parishad

Darrang Zilla Parishad
Darrang, Mangaldai

Countersign By

APO (T)
Darrang Zilla Parishad
Darrang, Mangaldai

Name of Work : Construction of Market Shed and infrastructure development at Namkhola Weekly Market.

Name of District : Darrang

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

ABSTRACT

1. Construction of market Shad		= Rs. 18,07,436.37
2. Cost of Earth filling		= Rs. 9,42,775.68
	Total	= Rs. 27,50,212.05
Deduction 10% for Contractor profit		= Rs. 2,75,021.21
	Total	= Rs. 24,75,190.84
Adding 1% for Contingency		= Rs. 24,751.91
	Grand Total	= Rs. 24,99,942.75
	Say	= Rs. 25,00,000.00

(Rupees Twenty five lakhs) only

Prepared By

Junior Engineer
Darang Zilla Parishad

Countersign By

APO (T)
Darrang Zilla Parishad
Darrang, Mangaldai

PART - I

Name of Work : Construction of Market shed and infrastructure development of Namkhola weekly Market.

Name of District : Darrang

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

Item No. 1/ 1.1: Earth work in excavation for foundation of trenches, walls, footings of columns, steps and septic etc. including re-filling (return filling) the quantity as necessary after completing the works breaking clods in return filling dressing, watering. and ramming etc and removal of surplus earth with all lead & lift as directed specified in following classification of soils including bailing out water where necessary.

Column	= 31 x 1.00 x 1.00 x 1.30	=	40.30 m^3
	= 31 x 0.90 x 0.90 x 1.00	=	25.11 m^3
Under Wall	= 4 x 18.00 x 0.30 x 0.75	=	16.20 m^3
	= 2 x 13.00 x 0.30 x 0.75	=	5.85 m^3
	= 2 x 16.60 x 0.30 x 0.75	=	7.47 m^3
	= 2 x 16.60 x 0.30 x 0.75	=	7.47 m^3
	= 31 x 2.10 x 0.30 x 0.75	=	14.65 m^3
	= 4 x 3.30 x 0.30 x 0.75	=	2.97 m^3
		Total	= 120.02 m^3

(A) Upto Depth of 2.0 m belo0w the existing G.L.

(a) In Ordinary Soil :

@ Rs. 64.67/m^3 = Rs. 7,761.69

Item No. 2/ 4.1.1: Providing brick work soiling in founds and under floor with stone / best quality picked jhama brick, sand packed and laid to level and in panel after preparing the sub-grade as directed including all labour and materials and if necessary dewatering, complete.

Column	= 31 x 1.00 x 1.00	=	31.00 m^2
	= 31 x 0.90 x 0.90	=	25.11 m^2

Under Wall	= 4 x 18.00 x 0.30	=	21.60 m^2
	= 2 x 13.00 x 0.30	=	7.80 m^2
	= 2 x 16.60 x 0.30	=	9.96 m^2
	= 2 x 16.60 x 0.30	=	9.96 m^2
	= 31 x 2.10 x 0.30	=	19.53 m^2
	= 4 x 3.30 x 0.30	=	3.96 m^2
Floor	= 24 x 2.20 x 1.90	=	100.32 m^2
	= 2 x 1.90 x 1.90	=	7.22 m^2
	= 2 x 2.70 x 1.90	=	10.26 m^2
Ramp	= 4 x 1.50 x 0.90	=	100.32 m^2
Passage	= 1 x 20.00 x 1.50	=	30.00 m^2
	= 1 x 16.50 x 1.50	=	24.75 m^2
		Total	= 306.87 m^2
@ Rs. 286.37/m^2		= Rs.	87,878.36

Item No. 3/ 2.1.1: Plain cement concrete works with course aggregate of sizes 13 mm. to 32 mm in foundation bed for footing, step, walls bricks works etc as directed and specified including dewatering if necessary, and curing complete (Shuttering works where necessary shall be measured and paid separately) (1:3:6)

Col. Footing	= 31 x 1.00 x 1.00 x 0.075	=	2.325 m^3
	= 31 x 0.90 x 0.90 x 0.075	=	1.883 m^3
Under Wall	= 4 x 18.00 x 0.30 x 0.075	=	1.620 m^3
	= 2 x 13.00 x 0.30 x 0.075	=	5.855 m^3
	= 2 x 16.60 x 0.30 x 0.075	=	0.747 m^3
	= 2 x 16.60 x 0.30 x 0.075	=	0.747 m^3
	= 31 x 2.10 x 0.30 x 0.075	=	1.465 m^3
Ramp	= 4 x 3.30 x 0.30 x 0.075	=	0.297 m^3
	= 4 x 1.50 x 0.90 x 0.075	=	0.405 m^3
		Total	= 10.074 m^3
@ Rs. 3733.63/m^3		= Rs.	37,612.59

Item No. 4/ 18.1: Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/ R.B. walling

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including straingthing 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 lavel)

Column 12 mm Φ	= 31 x 4 x 5.10	=	632.40 Rm
	= 31 x 4 x 3.80	=	471.20 Rm
Post Plate 12 mm Φ	= 2 x 2 x 20.50	=	164.00 Rm
	= 2 x 2 x 15.10	=	120.80 Rm
		Total =	1388.40 Rm
		=	12.36 Qntl.
Column Jali10 mm Φ	= 31 x 2 x 7 x 1.00	=	434.00 Rm
	= 31 x 2 x 6 x 0.90	=	334.80 Rm
		Total =	768.80 Rm
		=	4.77 Qntl
Stirrups Column	= 31 x 8 x 0.85	=	210.80 Rm
6mm	= 31 x 25 x 0.84	=	651.00 Rm
	= 31 x 6 x 0.85	=	158.10 Rm
	= 31 x 14 x 0.84	=	364.56 Rm
Post Plate	= 2 x 133 x 0.70	=	186.20 Rm
	= 2 x 100 x 0.70	=	140.00 Rm
		Total =	1710.66 Rm
		=	3.76 Qntl.

(b) ISI approved super ductile TMT Bar

(i) TATA/ SAIL = 17.12 Qntl.

@ Rs. 5290.41/Qntl. = Rs. 90,589.38

(c) ISI approved – M.S. Rod = 3.76 Qntl.

@ Rs. 5241.78/ Qntl. = Rs. 19,727.19

Item No. 5/ 3.1.1: Providing form work 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 floor to ceiling not exceeding 4.0 m and removal of the same for in situ reinforced concrete and plain concrete work.

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1. Foundation, footing, bases of column, pile cap, raft and mass concrete work etc. (i) Using 25 mm thick plank

Column	= 31x 4 x 1.00 x 0.10	=	12.40 m^2
	= 31 x 4 x 0.23 x 1.50	=	42.78 m^2
	= 31 x 4 x 0.90 x 0.10	=	11.16 m^2
	= 31 x 4 x 0.23 x 1.20	=	34.22 m^2
		Total	= 100.56 m^2
@ Rs. 157.05/ m^2		= Rs.	15,792.95

2. Column, pillars, posts and struts (i) Using 25 mm thick plank

Column	= 31 x 4 x 0.20 x 3.30	=	81.84 m^2
	= 31 x 4 x 0.15 x 2.30	=	42.78 m^2
		Total =	81.84 m^2
@ Rs. 233.94/ m^2		= Rs.	19,145.65

3. Side and soffits of beams, beam haunching, cantilever, girders, bressumers lintelsand horizontal ties (i) Using 25 mm thick

Post plate	= 2 x 2 x 0.20 x 20.00	=	16.00 m^2
	= 2 x 2 x 0.20 x 15.00	=	12.00 m^2
		Total =	28.00 m^2
@ Rs. 179.52/ m^2		= Rs.	5026.65

Item No. 6/ 2.2.1: Providing and laying reinforcement cement concrete works in prop. 1 : 2 : 4 (1 cement :. 2 coarse sand : 4 coarse aggregate 20 mm down) 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)

(a) In Sub-Structure up to plinth level

Column Base=	31 x 1.00 x 1.00 x 0.10	= 3.100 m^3
Column	= 31 x 0.23 x 0.23 x 1.50	= 2.460 m^3
	= 31 x 0.90 x 0.90 x 0.10	= 2.511 m^3

Contd.....

= 31 x 0.23 x 0.23 x 1.20 = 1.968 m^3

Total = 5.560 m^3

@ Rs. 4734.15/ m^3 = Rs. 26,321.87

(b) In Super Structure from Plinth level up to 1st floor level

Column = 31 x 0.20 x 0.20 x 3.30 = 4.092 m^3

= 31 x 0.15 x 0.15 x 2.30 = 1.604 m^3

Post Plate = 2 x 0.15 x 0.20 x 20.00 = 1.200 m^3

= 2 x 0.15 x 0.20 x 15.00 = 0.900 m^3

Total = 7.796 m^3

@ Rs. 4875.71/ m^3 = Rs. 38,011.04

Item No. 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 = 4 x 18.00 x 0.23 x 1.50 = 24.840 m^3

= 2 x 13.00 x 0.23 x 1.50 = 8.970 m^3

= 2 x 16.60 x 0.23 x 1.50 = 11.454 m^3

= 2 x 16.60 x 0.23 x 1.50 = 11.454 m^3

= 31 x 2.10 x 0.23 x 1.50 = 22.460 m^3

Ramp = 4 x 0.90 x 0.23 x 1.20 = 1.987 m^3

= 4 x 1.50 x 0.23 x 0.90 = 1.242 m^3

Total = 82.407 m^3

@ Rs. 4423.20/m^3 = Rs. 3,64,502.64

Item No. 8/ 4.1.7: 112mm thick 1st class brick nagged 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 column to be embedded in cement mortar and will be measured and paid for separately

Wall = 2 x 18.00 x 1.50 = 54.00 m^2

= 2 x 13.00 x 1.50 = 39.00 m^2

= 29 x 2.10 x 1.50 = 91.35 m^2

Total = 184.35 m^2

@ Rs. 518.62/m^2 = Rs. 95,607.60

Item No. 9/ 6.2.1: 10mm thick cement plaster in single coat on fair side of brick I concrete wall for interior plastering upto 1st floor level including anises, 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	= 2 x 18.60 x 1.50	=	55.80 m^2
	= 2 x 14.40 x 1.50	=	43.20 m^2
	= 29 x 2.10 x 1.50	=	91.35 m^2
Column	= 31 x 0.80 x 1.60	=	39.68 m^2
	= 31 x 0.60 x 0.60	=	11.16 m^2
		Total	= 241.19 m^2

@ Rs. 76.48/ m^2 = Rs. 18,446.21

Item No. 10/ 6.2.2: 15mm thick cement plaster in single coat on rough side of single or half brick wall for interior plastering upto 1st floor level including anises, 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

Wall	= 2 x 18.60 x 1.50	=	55.80 m^2
	= 2 x 14.40 x 1.50	=	43.20 m^2
	= 29 x 2.10 x 1.50	=	91.35 m^2
		Total	= 190.35 m^2

@ Rs. 95.10/ m^2 = Rs. 18,102.29

Item No. 11/ 18.3.1: Providing fitting, hoisting and fixing of roof trusses including purling fabricated out of WS, 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 a^{p}proved proved enamel paints complete including

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fitting necessary cleats etc for fixing ceiling joists as per design and drawings as directed

Tie (76.1 OD)	= 1 x 16x 5.60 x 5.80	=	519.680 Kg
Rafter (76.1 OD)	= 2 x 16 x 3.60 x 5.80	=	668.160 Kg
Purlin (42.4 OD)	= 4 x 4 x 17.25 x 2.59	=	714.840 Kg
Tie inclined (33.7 OD)	= 2 x 16 x 0.80 x 2.01	=	51.456 Kg
	= 2 x 16 x 0.95 x 2.01	=	61.104 Kg
	= 2 x 16 x 1.16 x 2.01	=	74.611 Kg
Struts (33.7 OD)	= 2 x 16 x 0.35 x 2.01	=	22.512 Kg
	= 2 x 16 x 0.68 x 2.01	=	43.738 Kg
	= 2 x 16 x 0.95 x 2.01	=	61.104 Kg
	= 2 x 16 x 1.30 x 2.01	=	41.808 Kg
Gusset plate (10 mm)	= 2 x 16 x 3 x 0.08 (Area) x 78.50	=	602.880 Kg
	= 2 x 16 x 2 x 0.120 (Area) x 78.50	=	602.880 Kg
	= 2 x 8 x 1 x 0.123 (Area) x 78.50	=	154.488 Kg
	= 2 x 8 x 1 x 0.170 (Area) x 78.50	=	13.520 Kg
	= 2 x 16 x 1 x 0.070 (Area) x 78.50	=	175.840 Kg
Base plate (12 mm)	= 2 x 16 x 1 x 0.023 (Area) x 94.20	=	602.880 Kg
		Total	= 4042.533 Kg
			= 40.43 Qtnl.
@ Rs. 5875.00/ Qtnl.		= Rs.	2,37,498.80

Item No. 12/ 8.1.4: Providing galvd. iron ridging of TATA Shaktee/ SAIL including supplying and fixing necessary galvd. screws/ washers etc. complete as directed _ (C) 0.60 mm thick, 150mm laping

2 x17.25 = 34.50 Rm

@ Rs. 126.65/ Rm. = Rs. 4369.43

Item No. 13/ 8.1.2: Providing corrugated galvd. Iron sheet roofing of TATA Shaktee / Sail including fitting and fixing necessary galvd. J or L hooks, bolts and nuts 8mm dia with bitumen washer 25mm dia x 3mm thick and 1.6 mm thick limpet washer complete excluding

cost of roof truss , purling etc.(roof trusses and purling etc. to be measured and paid separately). (d) 0.63 mm thick

Qnty. = 2 x 3.60 x 19.40 = 139.68 m^2

= 2 x 3.60 x 16.10 = 115.92 m^2

Total = 255.60 m^2

@ Rs. 425.09/ m^2 = Rs. 1,08,653.00

Item No. 14/ 7.2.1: Providing, fitting and fixing A.C. building board in ceiling with necessary 7.21, nails, wood screws including 1st class local wood 50 mm x 12 mm (hollock / bonsum / sundi) beading including painting two coats to timber beads complete as directed (ceiling joist to be measured and paid separately). (6mm thick)

Qnty. = 6 x 5.60 x 20.00 = 672.00 m^2

= 2 x 5.60 x 14.50 = 162.40 m^2

Total = 834.40 m^2

@ Rs. 292.15/ m^2 = Rs. 2,43,769.00

Item No. 15/ 7.2.1: Earth/Sand filling in plinth in layer not more than 150mm thick including necessary, carriage, watering, raring 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 (predominantly nor plastic) by truck carnage including

Floor	= 24 x 2.20 x 1.90 x 0.50	= 100.32 m^3
	= 2 x 1.90 x 1.90 x 0.50	= 7.22 m^3
	= 2 x 2.70 x 1.90 x 0.50	= 10.26 m^3
Ramp	= 4 x 1.50 x 0.90 x 0.50	= 5.40 m^3
Passage	= 1 x 20.00 x 1.50 x 0.50	= 30.00 m^3
	= 1 x 16.50 x 1.50 x 0.50	= 24.75 m^3
	Total	= 177.95 m^3

@ Rs. 322.75/m^3 = Rs. 57,433.00

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Item No. 16/ 5.1.4: 65mm thick cement concrete floor consisting of 50mm under layer of 5.1.4. cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 coarse aggregate of size 25mm down) and 15mm thick wearing layer in cement concrete 1 : 1 : 2 (1 cement : coarse sand : 2 coarse aggregate of size 10 mm 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.

Floor	= 24 x 2.20 x 1.90	= 100.32 m^2	
	= 2 x 1.90 x 1.90	= 7.22 m^2	
	= 2 x 2.70 x 1.90	= 10.26 m^2	
Ramp	= 4 x 1.50 x 0.90	= 5.40 m^2	
Passage	= 1 x 20.00 x 1.50	= 30.00 m^2	
	= 1 x 16.50 x 1.50	= 24.75 m^2	
		Total = 177.95 m^2	
@ Rs. 449.48/m^2		= Rs.	79,984.97

Item No. 17/ 7.2.1: a) Colour washing with lime on wall surface (two coats) over and including a priming coat of white washing to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matter.

(Building -A+B) From Sl No.- 9 & 10	= 431.54 m^2	
@ Rs 21.40/ m^2	= Rs.	9,234.96
Total	= Rs.	15,85,470.50

Add for Services =

1. For internal electrification @ 9% of Civil Cost	= Rs.	1,42,692.35
2. For normal preparation of site Cc- 1 % of Civil Cost	= Rs.	15,854.71
3. For external electrification with substation and L.T/ H.T. line @ 4% of CMI Cost	= Rs.	63,418.82
Total	= Rs.	18,07,436.37

(Rupees eighteen lakhs seven thousand four hundred thirty six paisa thirty seven) only

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PART - II

Name of Work :

Name of District : Darrang

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

Item No. 1/ 1.4: Raising low site around the building with approved soil obtained from outside by truck carriage including breaking *clod, dressing etc. complete* including paying necessary land compensation Municipal gate fees, if any monopoly duty etc (profile measurement to be 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 8.00 km. (forest royalty shall be reimbursed on production of necessary certificate from the forest authority duly countersigned by D.F.O. concerned).

i) Other than Guwahati municipality area

1 x 110.0 x 70.00 x 0.48	= 3696.00 m^3		
Deduct 12.5% shrinkage	= 462.00 m^3		
	Total = 3234.00 m^3		
@ Rs 205.52/ m^3		= Rs.	6,64,651.68
(B) Loading, unloading of approved soil			
Qnty. = 3234.00 m^3			
@ Rs 86.00/ m^3		= Rs.	2,78,124.00
	(PART-II) Total	= Rs.	9,42,775.68
Adding Part-I of estimate		= Rs.	18,07,436.37
	Grand Total	= Rs.	27,50,212.05
Deduction 10% for Contractor profit		= Rs.	2,75,021.20
	Total	= Rs.	24,75,190.00
	Say	= Rs.	25,00,000.00

(Rupees twenty five lakhs) only

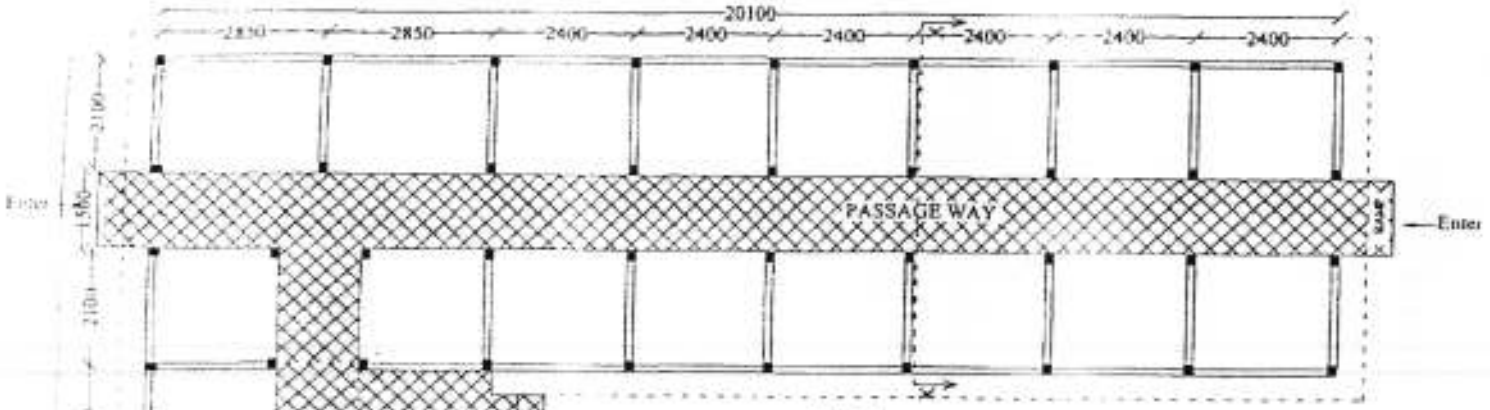
Prepared By

Junior Engineer
Darang Zilla Parishad

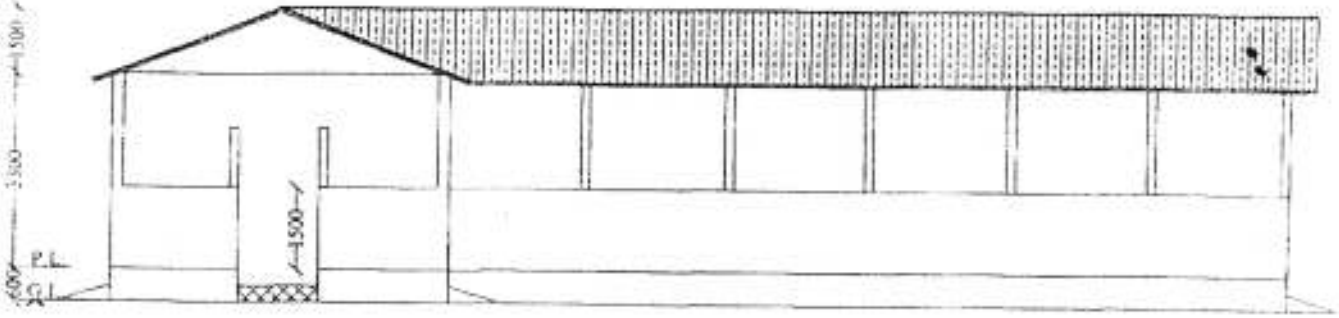
Countersign By

APO (T)
Darrang Zilla Parishad

PLAN & ELEVATION OF MARKET SHED (SCALE= 1:130)



PLAN



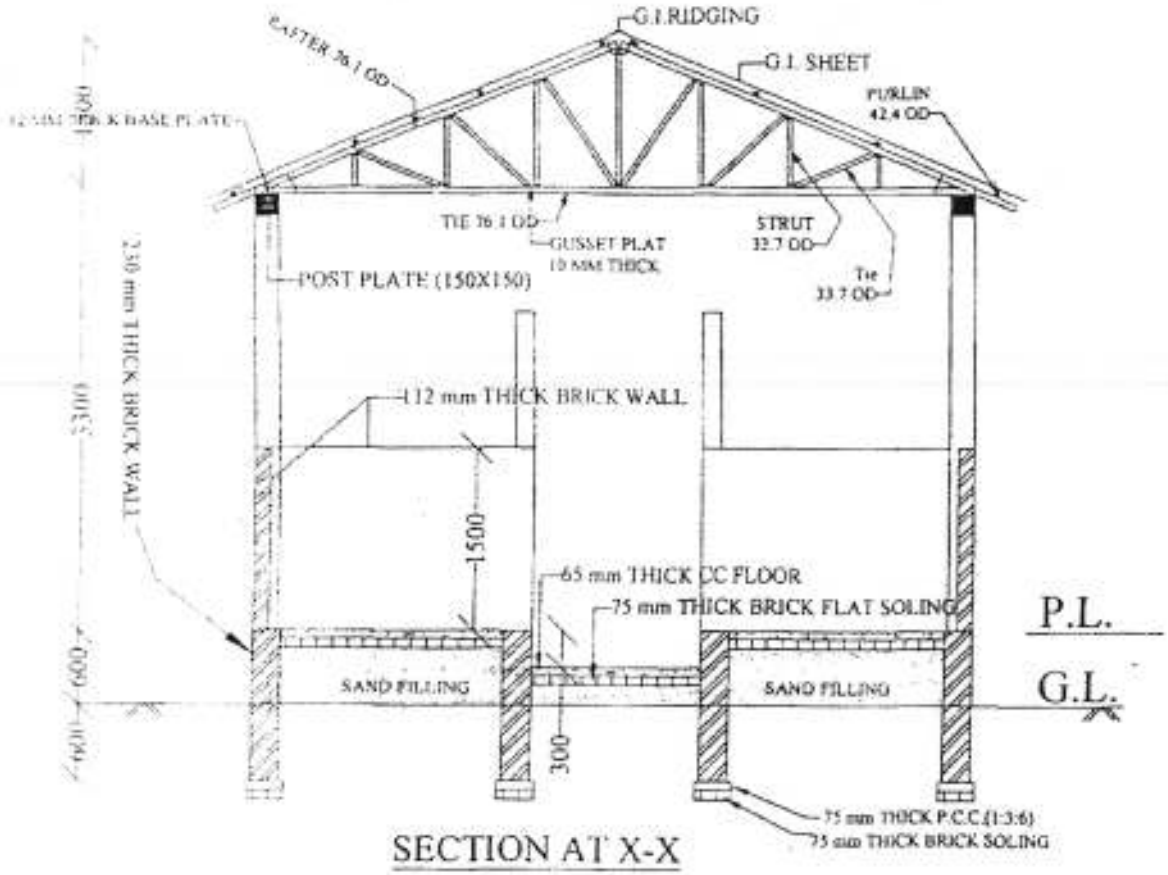
ELEVATION

COUNTERSIGNED BY

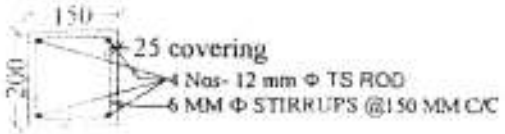
APO (T)
Darrang Zilla Parishad
Darrang, Mangaldai

PREPARED BY

Junior Engineer
Darrang Zilla Parishad
Darrang, Mangaldai



SECTION AT X-X



SECTION OF POST PLATE
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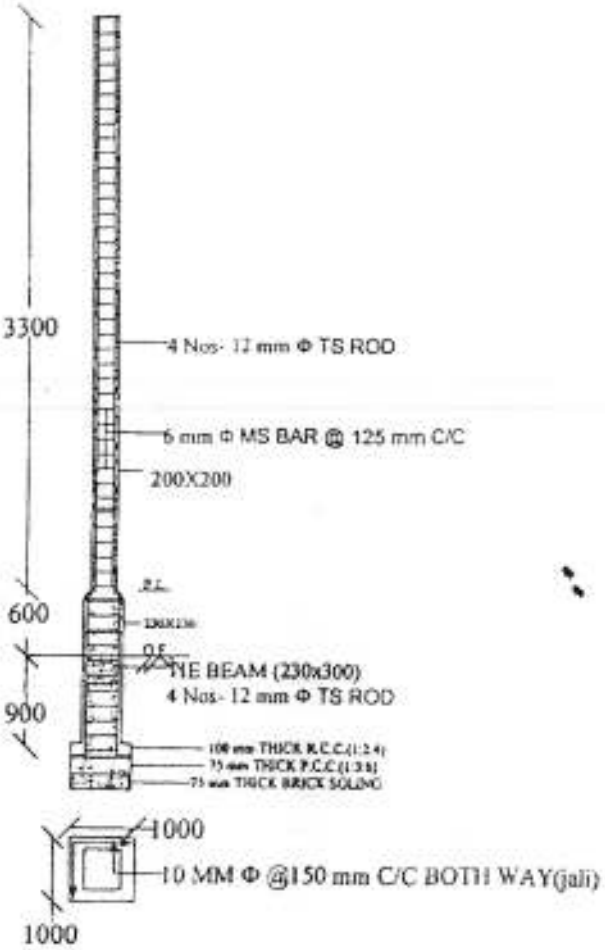

TYPICAL SECTION OF COLUMN
(NOT IN SCALE)

APO (T)
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