

GOVERNMENT OF ASSAM



सत्यमेव जयते

Name of work :- Construction of Community Hall at Bihudia Goan Panchayat Campus.

Amount:- Rs. 8,00,000.00

**OFFICE OF THE CHIEF EXECUTIVE OFFICER, DARRANG ZILA
PARISAD, MANGALDOI, DISTRICT DARRANG.**

Sheela Sahariah

**President
Darrang Zilla Parishad**

Name of Work :- Construction of Community Hall at Bihudia Goan Panchayat
Campus.

Name of Office/Department :- Darrang Zila Parasad, Mangaldoi.

Estimated Amount :- Rs.8,00,000.00

REPORT

This estimate amounting to Rs.8,00,000.00 (Rupees eight lacs only) has been prepared to show the probable cost for construction of Community Hall at Bihudia Goan Panchayat Campus.

This estimate has been prepared as per desire and request made by the President/Member, Darrang Zila Parisad, Mangaldoi, District Darrang. As per directive imparted by the President/Member, Darrang Zila Parisad, the following provisions have been considered in this estimate :-

- 1) Construction of Assam Type Community Hall.
- 2) Total buildup area proposed to be constructed of 96.00 Sq.m.
- 3) Tubler trusses to be erected as roof-truss.
- 4) Raising low site around the proposed A/T building.

This estimate has been prepared on the basis of C.B.,P.W.D,(Bldgs)'s schedule of rates for the year 2010-11 for civil works.

All works will be carried out as per I.S. code of practice and A.P.W.D. general specifications current in the state.

Junior Engineer,PWD(Building)
Mangaldoi Building Sub-Division

Name of Work :-Construction of Community Hall at Bihudia Goan Panchayat
Campus.

Name of Office/Department :- Darrang Zila Parasad, Mangaldoi.

A B S T R A C T O F C O S T

(A) Cost of Civil works :-

Rs. 7,34,300.00

(B) Cost of Electrification works :-

Rs. 50,000.00

Sub-Total= Rs. 7,84,300.00


Add 2% contingency charges

Rs.15,686.00

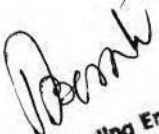
Grand Total = Rs.7,99,986.00

Say, **Rs.8,00,000.00**

(Rupees eight lacs only)


Junior Engineer,PWD(Building)
Mangaldoi Building Sub-Division

Technically approved.


Superintending Engineer. PWD
Tazpur Bldg. Circle

Name of Work :- Construction of Community Hall at Bihudia Goan Panchayat Campus.

(As per Schedule of rates for Civil works of APWD Building for the year 2010-2011)

1	1.3	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified. (A) Upto a depth of 2.00 m below the existing G.L. Post 20 x 0.90 x 0.90 x 1.00 =	16.20	m ³	Rs.64.67	Rs.1,047.65
2	4.1.1	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. (a).Brick on flat soling. Post 20 x 0.90 x 0.90 =	16.20	m ²	Rs.286.37	Rs.4,639.19
3	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering 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) Post 20 x 0.90 x 0.90 x 0.075 =	1.22	m ³	Rs.3,733.63	Rs.4,536.36
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 and bending 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 (upto 1st floor level). (B) ISI approved super ductile TMT Bar (i) TATA/SAIL 12mm dia Ø Jali for Post 20 x 18 x 0.90 x 0.0089 = 2.884 Qntl 12mm dia Ø main bar for Post 15 x 4 x 5.43 x 0.0089 = 2.900 Qntl 5 x 4 x 4.83 x 0.0089 = 0.860 Qntl 12mm dia Ø main bar for Beam 1 x 4 x 54.00 x 0.0089 = 1.922 Qntl 8mm dia Ø for Lintel 1 x 4 x 36.00 x 0.0039 = 0.562 Qntl <hr/> Total = 9.127 Qntl			Rs.5,290.41	Rs.48,285.36
		© ISI approved - M.S. Rod 6mm dia Ø Stp for Post 20 x 14 x 0.76 x 0.0022 = 0.468 Qntl 6mm dia Ø Stp for Post 20 x 33 x 0.34 x 0.0022 = 0.494 Qntl 6mm dia Ø Stp for Beam 1 x 483 x 0.76 x 0.0022 = 0.808 Qntl 6mm dia Ø Stp for Lintel 1 x 322 x 0.34 x 0.0022 = 0.241 Qntl <hr/> Total = 2.010 Qntl			Rs.5,241.78	Rs.10,537.40

3.1.1 Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:

3.1.1.1. Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc.

(ii) Using 25mm thick plank

Post	20	x	0.90	x	0.90	x	0.075	=	1.22	m ²	Rs.142.20	Rs.172.77
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3.1.1.2. Sides of tie beams, grade beams etc. at or below ground level.

(ii) Using 25mm thick plank

Tie Beam	1	x	3	x	54.00	x	0.25	=	40.50	m ²	Rs.191.27	Rs.7,746.44
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3.1.1.3. Columns, Pillars, Posts & Strut

(a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face

(ii) Using 25mm thick plank

Post	20	x	4	x	0.40	x	0.25	=	8.00	m ²
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Post	15	x	4	x	3.60	x	0.112	=	24.19	m ²
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Post	5	x	4	x	3.00	x	0.112	=	6.72	m ²
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Total =	38.91	m ²
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Rs.213.73

Rs.8,316.66

3.1.1.4. Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.

(a) For depth not exceeding 1.0M.

(ii) Using 25mm thick plank

Lintel	1	x	3	x	36.00	x	0.112	=	12.10	m ²	Rs.163.01	Rs.1,971.77
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6 2.2.1 Providing and laying plain/reinforced cement concrete works cement with coarse sand & 20mm down graded stone aggregate 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)

(I) Using mixture machine

(A) In sub - structure up to plinth level

Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.

(a) M15 or Prop. 1:2:4

Post	20	x	0.250	x	0.250	x	1.20	=	1.500	m ³
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Tie Beam	1	x	54.00	x	0.25	x	0.25	=	3.375	m ³
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Total =	7.856	m ³
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Rs.4,734.15

Rs.37,193.31

(B) In superstructure from plinth level up to 1st floor level

(II) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.

(a) M15 or Prop. 1:2:4

Post	15	x	0.112	x	0.112	x	3.60	=	0.677	m ³
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	5	x	0.112	x	0.112	x	3.00	=	0.188	m ³
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Lintel	1	x	36.00	x	0.112	x	0.112	=	0.452	m ³
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Total =	1.317	m ³
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Rs.4,929.24

Rs.6,492.40

4.1.7 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.

(b). In proportion 1:4.

Qty.	1	×	52.00	×	0.25	×	0.60	=	7.80	m ³
Step	1	×	1.50	×	0.75	×	0.60	=	0.68	m ³

Total = 8.48 m³

Rs.4,632.29

Rs.39,258.66

4.1.1 Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.

(b). In proportion 1:4.

Qty.	1	×	52.00	×	0.25	=	13.00	m ³
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Rs.150.00

Rs.1,950.00

4.1.7 112 mm 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 level (protruding M.S rod/Tor steel of column to be embedded in cement mortar and will be measured and paid separately)

(a). In cement mortar in proportion 1:4.(1 cement:4 sand)

Brick wall	1	×	36.00	×	3.60	=	129.60	m ²
	1	×	24.00	×	0.60	=	14.40	m ²
	4	×	1/2x3.00x0.90			=	5.40	m ²
Ded Door	2	×	2.00	×	1.20	=	(-)4.80	m ²
Ded Window	10	×	1.20	×	1.00	=	(-)12.00	m ²
Ded Ventilation	12	×	1.00	×	0.55	=	(-)6.60	m ²

Total = 126.00 m²

Rs.518.62

Rs.65,346.12

10 1.3 Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming 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 silt (predominantly non plastic) by truck carriage including loading and unloading.

Qty.	1	×	12.00	×	8.00	×	0.60	=	57.60	m ³
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Rs.322.75

Rs.18,590.40

4.1.1 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.

(a). Brick on flat soling.

Qty.	1	×	12.00	×	8.00	×	0.60	=	57.60	m ³
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Rs.286.37

Rs.16,494.91

4.1.3 40 mm thick cement concrete floor consisting of 25 mm under layer of cement concrete in prop. 1:3:6 (1cement : 3 coarse sand : 6 coarse aggregate of 12.5 mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement : 1 coarse sand : 2 coarse aggregate of size 10mm down) finished with a floating coat of neat cement finish using cement slurry for bond @ 2.75 kg. per square metre of floor area , wearing layer is to be laid in panels including curing etc. complete as directed.

Qty.	1	×	12.00	×	8.00	×	0.60	=	57.60	m ³
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Rs.345.32

Rs.19,890.43

13 012 Providing wood work in frame (chowk aths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embeded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified.

(b). With 1st class timber (Hollock/ Sundi)

Door	2	×	6.40	×	0.075	×	0.075	=	0.07	m ³
Window	10	×	4.40	×	0.075	×	0.075	=	0.25	m ³
Ventilation	12	×	3.10	×	0.075	×	0.075	=	0.21	m ³

Total = 0.53 m³

Rs.46,853.38

Rs.24,773.72

14 011 Providing wood work in frame of false ceiling partitions etc.sawn, wrought, framed hoisted and fixed in position with spikes, nails, M.S flat,angle/ cleats with bolt and nuts complete including kiricide oiling two coats to unexposed surfaces of the timber (M.S flats, angle cleats, and bolt and nuts required for flat, angle cleats wherever necessary shall be measured and paid separately).

(b). With Hollock/ Bonsum/ Sundi

Qty.	10	×	8.00	×	0.075	×	0.05	=	0.30	m ³
	7	×	12.00	×	0.075	×	0.05	=	0.32	m ³

Total = 0.62 m³

Rs.29,812.40

Rs.18,334.63

15 012 Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevent I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws.

b) Non decorative type and block board core.

(iii). 30 mm thick .

Door	2	×	1.92	×	1.050	=	4.03	m ³
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Rs.1,924.36

Rs.7,759.02

16 007 Providing, fitting and fixing fully glazed window with sash bars including oxidised M.S butt hinges (75mmx 60mmx3.15mm) 2nos.on each leaf and 3 nos. on single leaf (glass panes to be measured and paid separately)

(c).With 1st class local wood(Hollock / Bola/ Bonsum)

(iii).30mm thick

Window	10	×	1.00	×	1.20	=	12.00	m ³
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Rs.993.77

Rs.11,925.24

17 000 Providing, fitting and fixing fully glazed clerestory window and fan light including fitting and fixing 2 M.S pivot hinges (75mm x 20mm x 3mm), eye hook and nylon chord complete (glass panes shall be measured and paid separately).

(c).With 1st class local wood(Hollock / Bola/ Bonsum)

(iii).30mm thick

Window	12	×	1.00	×	0.55	=	6.60	m ³
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Rs.923.68

Rs.6,096.29

18 024 20 mm thick Cement plaster in two coats, backing coat 15 mm and finishing coat 5mm thick on rough side of single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles,chamfers and / or rounded angles not

(b). In cement mortar 1:4

Brick wall	1	×	2	×	36.00	×	3.60	=	259.20	m ²
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	1	x	2	x	24.00	x	0.60	=	28.80	m ²
	4	x	1/2x3.00x0.90x2					=	10.80	m ²
Ded Door	2	x	2	x	2.00	x	1.20	=	(-)9.60	m ²
Ded Window	10	x	2	x	1.20	x	1.00	=	(-)24.00	m ²
Ded Ventilation	12	x	2	x	1.00	x	0.55	=	(-)13.20	m ²

Total = 252.00 m²

Rs.138.57

Rs.34,919.64

19 1.4 Raising low site around the building with approved soil obtained from outside by truck carriage including breaking clods, 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 8.00Km. (Forest royalty shall be reimbursed on production of necessary certificate from the forest authority duly countersigned by D.F.O. concerned).

ii) Other than Guwahati municipality area.

Qty.	1	x	45.00	x	5.80	x	0.95	=	247.95	m ³
	1	x	37.20	x	4.75	x	0.83	=	146.66	m ³
	1	x	37.24	x	5.25	x	0.87	=	170.12	m ³

Total = 564.73 m³

Rs.205.52

Rs.1,16,063.30

20 18.3.2 Providing welding, fitting, fixing, hoisting and fixing of roof trusses with purlin, bottom runner etc. fabricated out of a combination of two or all of the following sections: (i) square hollow sections (SHS/RHS) (ii) rectangular hollow section and (iii) M.S. black-tubes conforming to relevant I.S. code 1161-1968 as per approved design and drawing including M.S. cleat, base plate, bolts and nuts which ever required, including that required for fixing the ceiling and one coat of red oxide Zinc Chromate primer to all steel surface etc. complete as directed as per specifications.

OD42.4(M)=1x76.00=76.00Rmx3.15=	239.40Kg	2.40	Qntl
OD42.4(M)=1x21.60=21.60Rmx3.15=	68.04Kg	0.68	Qntl
OD33.7(M)=3x7.12=21.36Rmx2.46=	52.55Kg	0.53	Qntl
OD33.7(M)=11x12.90=141.90mx2.46=	349.07Kg	3.50	Qntl

Total = 7.11 Qntl

Rs.7,126.00

Rs.50,665.86

21 8.1.2 Providing corrugated galvenised Iron sheet roofing of TATA SHAKTEE / SAIL including fitting and fixing necessary galvenised J or L hooks, bolts and nuts 8 mm dia with bitumen washer 25 mm dia x 3 mm thick and 1.6 mm thick limpet washer complete excluding cost of roof truss, purlin etc. (Roof trusses and purlin etc.to be measured and paid separately).

(iii) 0.50 mm thick

Qty.	1	x	12.00	x	8.00	x	1.5	=	144.00	m ²
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Rs.359.88

Rs.51,822.72

22 8.1.4 Providing galvd iron ridging of TATA SHAKTEE / SAIL including supplying and fixing necessary galvd screws/washers etc. complete as directed.

(b) 0.50 mm thick

(ii) 230 mm lapping

Qty.	1	x	12.90	=	12.90	Rm
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Rs.127.85

Rs.1,649.27

21 13.2.1 Providing ,fitting and fixing A.C. building board in ceiling with necessary nails, wood screws including 1st class local wood 50mm x 12mm (hollock/bonsum/sundi) beading including painting two coats to timber beads complete as directed (ceiling joist to be measured and paid separately).
(b). 6 mm thick.

Qty. 1 x 12.00 x 8.00 = 96.00 m² Rs.292.15 Rs.28,046.40

24 13.2.2 c) Applying one coat of distemper primer of approved brand and manufacture on wall surface after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.

Brick wall 1 x 2 x 36.00 x 3.60 = 259.20 m²
1 x 2 x 24.00 x 0.60 = 28.80 m²
4 x 1/2x3.00x0.90x2 = 10.80 m²
Ded Door 2 x 2 x 2.00 x 1.20 = (-)9.60 m²
Ded Window 10 x 2 x 1.20 x 1.00 = (-)24.00 m²
Ded Ventilation 12 x 2 x 1.00 x 0.55 = (-)13.20 m²

Total = 252.00 m² Rs.29.69 Rs.7,481.88

25 13.2.2 c) Applying one coat of distemper primer of approved brand and manufacture on wall surface after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.

252.00 m² Rs.62.42 Rs.15,729.84

26 13.6.3 Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting.

(b). With ready mixed paint , wood primer (white). 252.00 m²
Ceiling 1 x 12.00 x 8.00 = 96.00 m²
Door 2 x 2 x 2.00 x 1.20 = 9.60 m²
Window 10 x 2 x 1.20 x 1.00 = 24.00 m²
Ventilation 12 x 2 x 1.00 x 0.55 = 13.20 m²

Total = 394.80 m² Rs.30.91 Rs.12,203.27

27 13.6.5 Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping.

(i).Surfaces over 100mm in width or girth.

b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).

394.80 m² Rs.54.82 Rs.21,642.94

28 10.2 Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ opening with M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.

I. Plain grill

(a). Fixed to wooden frames

Window 10 x 1.20 x 1.00 = 12.00 m²
Ventilation 12 x 1.00 x 0.55 = 6.60 m²

Total = 18.60 m² Rs.54.82 Rs.1,019.65

13.7.2 Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.

a). With ready mixed "red-lead/ red oxide" primer.

Window	10	x	2	x	1.20	x	1.00	=	24.00	m ²
Ventilation	12	x	2	x	1.00	x	0.55	=	13.20	m ²
Total =									55.80	m ²

Rs.29.88

Rs.1,667.30

10) 13.7.4 Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.

(i). Surfaces over 100mm in width or girth.

b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).

55.80 m²

Rs.54.82

Rs.3,058.96

11) 15.2.1 Supplying, fitting, fixing anodised aluminium fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete. (anodised to bright natural matt & satin finished)

b) Tower bolts

ii) 250mm x 12mm

Qty. 1 x 48

c) Door handles

48 Each

Rs.119.59

Rs.5,740.32

ii) 100mm

Qty. 1 x 24

d) Gate shutter hook & eye

24 Each

Rs.61.09

Rs.1,466.16

ii) 125mm

Qty. 1 x 24

24 Each

Rs.23.49

Rs.563.76

12) --- For white ant treatment @Rs.200.00/sq.m.of P.A.

11) --- For Electrification works L/S amount

Add 2% contingency charges

Civil Works :- Sub-Total (I) = Rs.19,200.00

Rs.7,34,300.00


Rs.50,000.00

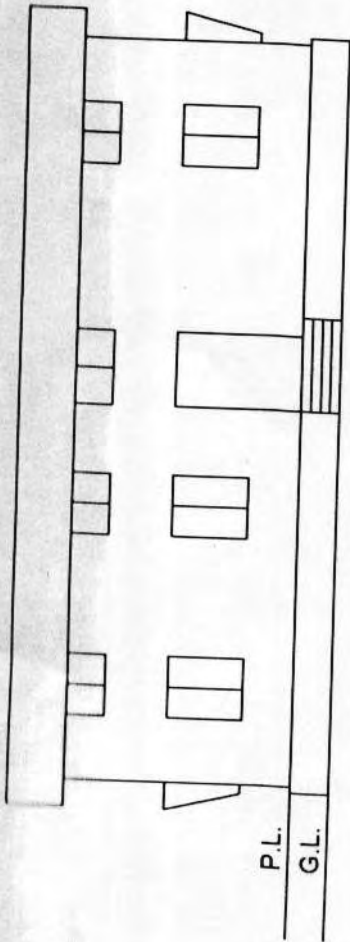
Sub-Total (II) = Rs.7,84,300.00

Rs.15,686.00

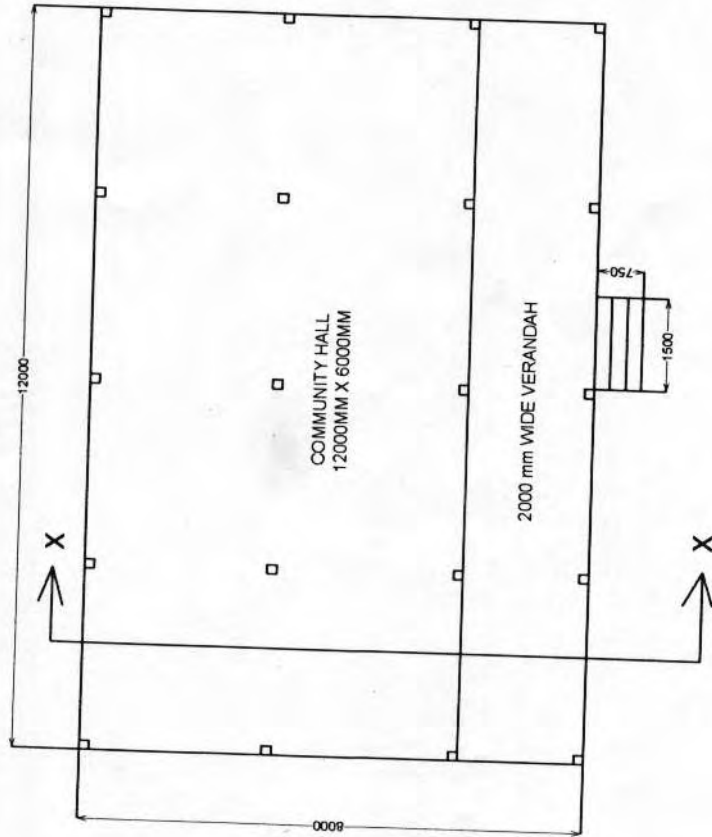
Grand Total = Rs.7,99,986.00

Say, Rs.8,00,000.00

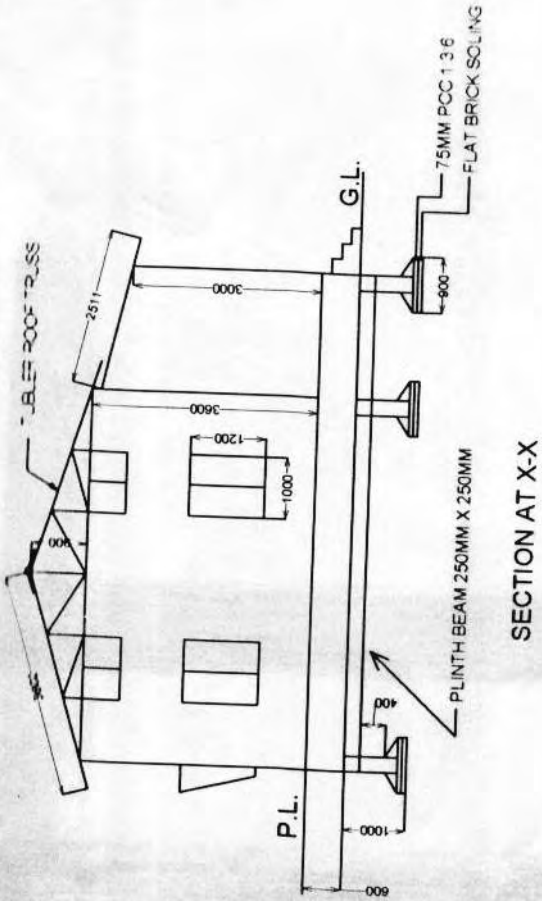

Junior Engineer, PWD (Building)
Mangaldoi Building Sub-Division



FRONT VIEW



LINE PLAN OF PROPOSED COMMUNITY HALL



SECTION AT X-X

NOTE :-

- COLUMN SIZE BELOW P.L.=250MMX250MM(12MM DIA TOR @4 NOS)
- COLUMN SIZE ABOVE P.L.=112MMX112MM
- FOOTING MESH 10 MM DIA TOR @112MM CC
- DOOR SIZE=2000MM X 1200MM
- WINDOW SIZE=1200MM X 1000MM
- VENTILATION SIZE=1000MM X 500MM

ALL DIMENSIONS ARE IN MM

Handwritten signature

Junior Engineer, PWD (Building)
Mangaldoi Building Sub-Division