

GOVERNMENT OF ASSAM  
OF THE CHIEF ENGINEER:P.W.D.BU  
ASSAM:CHANDMARI:GUWAHTI:3

No. SMC/15/Pt-I/2006/17,

Dated Guwahati the 12<sup>th</sup> Nov/2010

To,

The Commissioner,  
Panchayat & Rural Development Deptt.  
Assam, Panjabari, Guwahati-37.

Sub:- Countersignature on the estimate for “Construction of Multi-purpose Hall under TASFC for the year 2010-2011, amounting to Rs. 1,25,02,000.00 (Rupees one crore, twenty five lakh & two thousand )only.

Ref:- Your letter No. DPRD-12/14/2002-03/152, Dated 30/10/2010.

Sir,

With reference to the above, I am to return herewith the aforesaid estimate (single copy) amounting to Rs. 1,25,02,000.00 (Rupees one crore twenty five lakh & two thousand)only, after duly countersignature from this end, for favour of your kind disposal. The estimate is checked considering normal site condition as no specific site is shown. So, the cost of estimate may vary depending upon the site condition.

Enclo:- As above.

Yours faithfully,

Chief Engineer, P.W.D. Building,  
Assam, Chandmari, Guwahati-3.

Memo No. SMC/15/Pt-I/2006/17-A,

Dated Guwahati the /2<sup>th</sup> Nov/2010

Copy to:-

1. The Commissioner & Special Secretary, to the Govt. of Assam, P.W.D. (Bldg. & N.H.) Dispur, Guwahati-6, for favour of kind information.

Chief Engineer, P.W.D. Building,  
Assam, Chandmari, Guwahati-3.

THE UNIVERSITY OF CHICAGO  
 DIVISION OF THE PHYSICAL SCIENCES  
 DEPARTMENT OF PHYSICS  
 5301 S. DICKINSON DRIVE  
 CHICAGO, ILL. 60637  
 TEL: (773) 936-5000  
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**ESTIMATE**

**MODEL ESTIMATE  
FOR  
MULTI-PURPOSE HALL  
UNDER  
TFC 2010-2011**

PREPARED BY  
**FAÇADE**

PLANNERS, DESIGNERS & ENGINEERS  
CHANDMARI, GHY-03



Name of estimate :- Construction of Multi-Purpose Hall under TASFC  
for the year 2010-11 at different places of the State

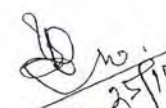
Estimated Amount: Rs. 1,25,02,000.00


### REPORT

1,25,02,000.00

This estimate amounting to Rs. 1,25,00,000.00 (Rupees one crore ~~and~~  
<sup>two thousand</sup> twenty five lakhs) only has been prepared for construction of Multi-Purpose Hall under  
TASFC for the year 2010-11 at different places of the State. This Hall will have the  
provisions of Conference Room, Banks Counter, Restaurant, Shops and entertainment  
facilities for the rural areas. This building has provisions of two stories alongwith a  
portion on 2<sup>nd</sup> floor as Projector's Room. After completion of the Hall, the rural people  
will be benefited.

The estimate has been prepared on the basis of SOR of APWD(Bldg.), for  
the year 2010-11.

  
(B. Das)  
Junior Engineer  
Panjabari, Jural, CP&RD,  
Guwahati-37  
Assam  
A.C.S.

  
(A. Rahman)  
Jt. Director(Tech), Panchayat  
Director, P & R  
Panjabari, Guwahati-37  
Assam



## ABSTRACT OF COST

A	CIVIL COST			
I	GROUND FLOOR	Rs.	4421961.30	44,45,4
II	FIRST FLOOR	Rs.	3053901.18	29,39,1
III	SECOND FLOOR	Rs.	836608.97	7,94,0
			<u>8312471.45</u>	<u>81,79,0</u>
B	SERVICES			
I	INTERNAL ELECTRIFICATION 7 %	Rs.	581873.00	5,82,0
II	EXTERNAL ELECTRIFICATION 4 %	Rs.	332498.86	3,27
III	SANITARY FITTING 5%	Rs.	415623.57	4,08
IV	INTERNAL WATER SUPPLY 3 %	Rs.	249374.14	2,4
V	NORMAL PREPARATION OF SITE 5 %	Rs.	41562.36	4
VI	CONSULTANCY & CONTEGENCY 1 %	Rs.	83124.71	
			<u>1704056.65</u>	

-TOTAL BUILDING COST Rs. 40016528.10 15,92

C	INETRIOR DECORATION i.e. Furniture, Audio system, Projector, screen, Others Accessories, Interior decoration. Rs.	2483000	= 24,
	TOTAL PROJECT COST (A+B+C) Rs.	12499528.10	1,22,5
	Add. Contingency 1% — Rs.		1,2
	Add. Labor cost 1% — Rs.		1,2
	Grand TOTAL Rs.	1,25,0	
	- Say Rupees One Corer, and Twenty Five Lack only		

≤ Say Rs 1,25,02

Note:-

(Rupees One corer, twenty five lakh & two thousand

This estimate has been prepared on the basis of A.P.W.D. Schedule of rates  
Building Wings) for the year of 2010-2011

25/10/10  
Junior Engineer  
Office of the Commissioner  
Panchayat & Rural Development  
Assam, Panjabari (Juripar), Ghy-37

Asst. Executive Engineer, SMC Branch  
Office of the C.E. P.W.D. (Bldg)

Executive Engineer, SMC Branch  
Office of the C.E. P.W.D. (Bldg)  
Assam, Guwahati

25/10/10  
Joint Director (Tech.)  
Directorate P & R D, Assam  
Panjabari, Guwahati - 37

Superintending Eng  
O/O The Chief Engineer I  
Assam, Chandmari, C

Countersign

**SUB ESTIMATE FOR**  
INTERIOR DECORATION ETC.

**TOTAL AUDIO SYSTEM**

(PHILIPS COMP. LTD. ....@ Rs. 5,00,000/-

**PROJECTOR**

(SONY COMP. LTD. ....@ Rs. 3,00,000/-

SCREEN .....@ Rs. 25,000/

**INTERIOR DECORATION**

**FURNITURE**

CHAIRS (300 NOS. @ 2000/CHR. ....Rs. 6,00,000/-


TABLE (6'X12' SIZE) .....@ Rs. 23,000/- 22,000/-

**WOODEN CELLING AND WALL**

(2960.00 SQ-FT CELLING AREA @ 350/SQ-FT .....Rs. 10,36,000/-

**TOTAL Rs. 24,83,000/-**

(Rupees Twenty Four Lakhs & Eighty Three Thousand only)

  
Junior Engineer  
Office of the Commissioner  
Panchayat & Rural Development  
Assam, Panjabari (Juripar), Ghy-37

  
Joint Director (Tech.)  
Directorate P & R D, Assam  
Panjabari, Guwahati - 37

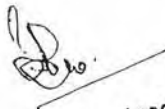
Office of the Commissioner  
Panchayat & Rural Development  
Assam, Panjabari (Juripar), Ghy-37

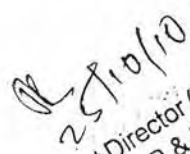
Director  
Panjabari



## GROUND FLOOR 464.68 SQ-M

Sl no	Item of work	Unit	Rate	Quantity	Amount in Rs.
<b>EARTH WORK</b>					
1	Earth work in excavation for foundation trenches of walls, retaining walls, footing of columns, steps, Septic tanks 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 following classifications of soils including bailing out water where necessary as directed and specified. Upto a depth of 2m below the existing ground level	M3	64.67	336.00	21729.12
	a) In ordinary soil				
2	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 & taxes as may be necessary.				
	a) With hill sand / river sand obtained by truck including loading and unloading and carriage to the site of work.	M3	291.56 322.75	278.81	81,289.84 89985.93
<b>PLAIN CEMENT CONCRETE WORK</b>					
3	Plain cement concrete works with coarse agg. of sizes 13mm in foundation bed for footing, steps, walls, brick work etc. as directed and specified, including curing complete. (shuttering shall be measured and paid separately).				
	a) In prop. 1 cement : 3 sand : 6 coarse agg. by volume.	M3	3733.63	16.80	62724.98
<b>CEMENT CONCRETE WORK</b>					
4	Providing and laying cement Concrete for R.C.C (1:1 1/2:3) work in prop. 1:2:4 (1 cement: 2 coarse sand: 4 graded stone chips-20 mm down) including curing complete but excluding cost of form work and reinforcement for R.C.C. (from work and reinforcement shall be measured and paid separately).				
	In sub structure up to P.L.		5164.83		4,58,213.38
	a) Footing, Column below plinth and Plinth Beam	M3	4734.15	88.718	420004.32
5	Providing and laying cement Concrete for R.C.C work in prop. 1:2:4 (1 cement: 2 coarse sand: 4 graded stone chips-20 mm down) including curing complete but excluding cost of form work and reinforcement for R.C.C. (from work and reinforcement shall be measured and paid separately).				
	In super structure From P.L. to F.F. level		5364.16		5,88,689.73
	b) Column Beam, Slab, Lintel	M3	4929.24	109.745	540959.44

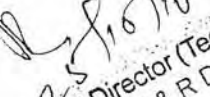
  
 Junior Engineer  
 Office of the Commissioner  
 Panchayat & Rural Development  
 Panjabari (Juripar), Ghy-37

  
 Joint Director (Tech.)  
 Directorate P & R D, Assam  
 Panjabari, Guwahati - 37



Sl no	Item of work	Unit	Rate	Quantity	Amount in Rs.
<b>SHUTTERING</b>					
6	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 and removal of the same for in situ reinforced concrete and plain concrete work.				
	<b>In sub structure upto plinth level</b>				
	a) Foundation base, column, tie beam etc.	M2	191.27	491.67	94041.72
7	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 and removal of the same for in situ reinforced concrete and plain concrete work.				
	a) Column, Beam, Slab etc.	M2	243.80	934.67	227872.55
<b>DOOR, WINDOW &amp; VENTILATORS</b>					
8	Providing wood work in frame (chowkats) of door, windows, clerestory windows and masonry walls including supplying, fitting and fixing with M.S. flat hold fast (40 mm x 3 mm x 25 mm) as per design and embedded in cement concrete block in prop. 1:1:4 and with two coats of kiricide oiling to the timber faces in contact with C.C. and masonry as directed and specified.				
	(a) Sal wood	M3	43969.25	1.222	53730.42
9	Providing and fixing flush door shutters solid core construction with frame of 1st class hard work with cross band and face panels conforming to relevant I.S. iron but hinges (10x75x3.5)mm 6 nos. with necessary wood screws.				
	a) Decorative type face panel and block board core of 35 mm thick	M2	2791.96 2947.16	14.70	41,041.81 43323.25
10	Providing, fitting and fixing fully glazed window wtyh sash bars including oxidized M.S. but hinges (75x60x3.15) 2 nos. on each leaf and 3 nso. On single leaf (glass panel to be measured and paid separately				
	c) With 1st class local wood (Gamari / Bonsum / Hollock / Sandi)				
	i) 40 mm thick, single shutter	M2	1779.33	16.23	28878.53
11	Providing and fixing clear sheet glass bedded in putty including necessary cutting of glass to required sizes (4 mm thick)	M2	496.99	27.345	13590.19
<b>BRICK WORK</b>					
12	Providing soling in foundation and under floor at all levels with stone/best quality picked jhama bricks, sand packed and laid to level and in panel after preparing the sub-grade as directed including all labor and materials complete				
	a) Brick flat soling	M2	286.37	688.58	197188.65

  
 Junior Engineer  
 Office of the Commissioner  
 Panchayat & Rural Development  
 Jorhat (Juripar), Ghy-37

  
 Joint Director (Tech.)  
 Directorate P & R D, Assam  
 Panjaburi, Guwahati-37

Assam, 1 -



Sl no	Item of work	Unit	Rate	Quantity	Amount in Rs.
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### SHUTTERING

- 6 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 and removal of the same for in situ reinforced concrete and plain concrete work.

#### In sub structure upto plinth level

- |   |    |        |        |          |
|---|----|--------|--------|----------|
| a) Foundation base, column, tie beam etc. | M2 | 191.27 | 491.67 | 94041.72 |
|---|----|--------|--------|----------|
- 7 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 and removal of the same for in situ reinforced concrete and plain concrete work.

- |                            |    |        |        |           |
|----------------------------|----|--------|--------|-----------|
| a) Column, Beam, Slab etc. | M2 | 243.80 | 934.67 | 227872.55 |
|----------------------------|----|--------|--------|-----------|

### DOOR, WINDOW & VENTILATORS

- 8 Providing wood work in frame (chowkats) of door, windows, clerestory windows and masonry walls including supplying, fitting and fixing with M.S. flat hold fast (40 mm x 3 mm x 25 mm) as per design and embedded in cement concrete block in prop. 1:1:4 and with two coats of kiricide oiling to the timber faces in contact with C.C. and masonry as directed and specified.

- |              |    |          |       |          |
|--------------|----|----------|-------|----------|
| (a) Sal wood | M3 | 43969.25 | 1.222 | 53730.42 |
|--------------|----|----------|-------|----------|
- 9 Providing and fixing flush door shutters solid core construction with frame of 1st class hard work with cross band and face panels conforming to relevant I.S. iron but hinges (10x75x3.5)mm 6 nos. with necessary wood screws.

- |   |    |                    |       |                       |
|---|----|--------------------|-------|-----------------------|
| a) Decorative type face panel and block board core of 35 mm thick | M2 | 2791.96<br>2947.16 | 14.70 | 41,041.81<br>43323.25 |
|---|----|--------------------|-------|-----------------------|

- 10 Providing, fitting and fixing fully glazed window with sash bars including oxidized M.S. but hinges (75x60x3.15) 2 nos. on each leaf and 3 nos. On single leaf (glass panel to be measured and paid separately)

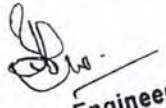
#### c) With 1st class local wood (Gamari/Bonsum/Hollock/Sandi)

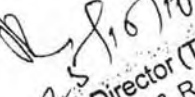
- |                                |    |         |       |          |
|--------------------------------|----|---------|-------|----------|
| i) 40 mm thick, single shutter | M2 | 1779.33 | 16.23 | 28878.53 |
|--------------------------------|----|---------|-------|----------|
- 11 Providing and fixing clear sheet glass bedded in putty including necessary cutting of glass to required sizes (4 mm thick)
- |  |    |        |        |          |
|--|----|--------|--------|----------|
|  | M2 | 496.99 | 27.345 | 13590.19 |
|--|----|--------|--------|----------|

### BRICK WORK

- 12 Providing soling in foundation and under floor at all levels with stone/best quality picked jhama bricks, sand packed and laid to level and in panel after preparing the sub-grade as directed including all labor and materials complete

- |                      |    |        |        |           |
|----------------------|----|--------|--------|-----------|
| a) Brick flat soling | M2 | 286.37 | 688.58 | 197188.65 |
|----------------------|----|--------|--------|-----------|


  
Junior Engineer  
Office of the Commissioner  
Panchayat & Rural Development  
Ghy-37

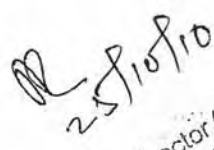
  
Joint Director (Tech.)  
Directorate P & R D, Assam  
Panjabari, Guwahati - 37

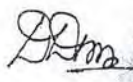




Sl no	Item of work	Unit	Rate	Quantity	Amount in Rs.
13	<del>230/114</del> Brick work in cement mortar with 1 <sup>st</sup> class brick including racking out joints and curing complete as directed in sub-structure upto Plinth Level.				
	a) In prop. 1:5	M3	4423.20 4632.29	45.90	2,03,024.88 212622.11
14	112mm thick 1 <sup>st</sup> class brick nogged wall in cement mortar embedded with protruding rod in column including racking out joint and curing complete as directed in super structure above plinth upto 1 <sup>st</sup> floor level (protruding M.S. rod/Tore steel will be measured and paid for separately under relevant item of steel work).				
	a) In cement mortar in prop. 1:4	M2	518.62	635.57	329619.31
	PLASTERING				
15	15 mm thick cement plaster in single coat on fair side of brick / concrete wall and ceiling for interior plastering upto 1 <sup>st</sup> floor level including arrises and/or rounded angles not exceeding 80 mm in girth and finished even and smooth including curing complete as directed. (In cement mortar 1:4)				
	a) Wall	M2	111.25	635.57	70707.16
16	15 mm thick cement plaster in two coats backing coat 10 mm finishing coat 5 mm thick on rough side of single or half brick wall for interior plastering upto 1 <sup>st</sup> floor level including risers, internal rounded angles not exceeding 80 mm in girth and finished even and smooth including curing complete as directed.				
	(a) In cement mortar 1:4	M2	138.57	839.57	116339.21
17	10 mm thick cement plaster on ceiling and sofit of stair case up to first floor level including curing complete as directed.	M2	138.57	464.68	64390.71
	PAINTING				
18	Applying priming coat over new wood based surfaces over 10 cm in width/girth after and including cleaning oil, grease, dirt and other foreign matter, sand papering and knotting.				
	(a) With ready mixed paint, brushing white lead for primary.	M2	29.70	61.86	1837.24
19	Painting two coats (excluding primary coat) on new wood and wood based surfaces with enamel paint to give an even shade including cleaning the surfaces of dirt, dust and other foreign material, sand papering and stopping. (Surfaces over 10 cm in width/girth.)				
	(i) With "Apolite.	M2	54.82	61.86	3391.17

  
 Junior Engineer  
 Office of the Commissioner  
 Panchayat & Rural Development  
 Assam, Panjabari (Juripar), Ghy-37

  
 Joint Director (Tech.)  
 Directorate P & R D, Assam  
 Panjabari, Guwahati - 37





Sl no	Item of work	Unit	Rate	Quantity	Amount in Rs.
20	Distemper with dry distemper of approved brand and manufacture (2 coats) and of required shade on new wall surface to give on even shade, over and including priming coat of white primer after thoroughly brushing the surface free from mortar droppings and other foreign matters including preparing the surface even and sand papered smooth.	M2	62.42	1475.14	92078.24
21	Extra over item 13.3.2b of above for distempering with dry distempering on ceiling and of the sloping roofs.	M2	62.42	464.68	29005.33

#### FLOORING

22	40 MM Tthick P.C.C. flooring base of 25 mm down agg. With neat cement slurry	M2	449.48	464.68	208864.37
23	Marble stone slsb flooring including treads of steps exceeding 30 cm with laid over 20 mm thick base of cement plaster 1:6 laid and jointed with white cement slurry including rubbing and polishing complete with marble slab of specified quality.	M2	2232.30	58.00	129473.40
24	6 mm thick glazed tiles wall & floor over cement slurry as per specification	M2	606.08	51.03	30928.26

#### STEEL RE-INFORCEMENT

25	Supplying , fitting and fixing in position reinforcement bars conforming to relevent IS. 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 20 G anealed black wire and placing in position with proper blocks, supports , chairs, spacers etc. complete (upto 1 <sup>st</sup> floor level).	QTL	4746.00	249.95	1186262.70
26	Providing fitting and fixing M.S. grill of required pattern for openings 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	KG	63.27	367.20	23232.74
27	Providing fitting and fixing Rolling shutters of good quality iron sheet including spring revolving axil, both side chennel etc.	M2	2563.10	50.40	129180.24

Total Rs. 4424961.30

44,45,459.16

*[Signature]*  
25/10/10  
Junior Engineer  
Office of the Commissioner  
Panchayat & Rural Development  
Assam, Panjabari (Juripar), Ghy-37

*[Signature]*  
25/10/10  
Joint Director (Tech.)  
Directorate P & R D, Assam  
Panjabari, Guwahati - 37

*[Signature]*



FIRST FLOOR 464.68 SQ-M

Sl no	Item of work	Unit	Rate	Quantity	Amount in Rs.
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**CEMENT CONCRETE WORK**

- 1 Providing and laying cement Concrete for R.C.C (1:1 1/2:3) work in prop. 1:2:4 (1 cement:1 1/2 coarse sand: 4 graded stone chips-20 mm down) including curing complete but excluding cost of form work and reinforcement for R.C.C. (from work and reinforcement shall be measured and paid

**In super structure From P.L. to F.F. level**

b) Column, Beam, Slab, Lintel

M3

5364.16

4929.24

67.853

3,63,974.34

334463.72

**SHUTTERING**

- 2 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 and removal of the same for in situ reinforced concrete and plain concrete work.

a) Column, Beam, Slab etc.

M2

243.80

723.51

176391.74

**DOOR, WINDOW & VENTILATORS**

- 3 Providing wood work in frame (chowkats) of door, windows, clerestory windows and masonry walls including supplying, fitting and fixing with M.S. flat hold fast (40 mm x 3 mm x 25 mm) as per design and embedded in cement concrete block in prop. 1:1:4 and with two coats of kiricide oiling to the timber faces in contact with C.C. and masonry as directed and specified.

(a) Sal wood

M3

43969.25

1.943

85432.25

- 4 Providing and fixing flush door shutters solid core construction with frame of 1st class hard work with cross band and face panels conforming to relevant I.S. iron but hinges (10x75x3.5)mm 6 nos. with necessary wood screws.

a) Decorative type face panel and block board core of 35 mm thick

M2

2791.96

2947.16

14.70

41,041.81

43323.25

- 5 Providing, fitting and fixing fully glazed window wtyh sash bars including oxidized M.S. but hinges (75x60x3.15) 2 nos. on each leaf and 3 nso. On single leaf (glass panel to be measured and paid separately

c) With 1 st class local wood (Gamari / Bonsum / Hollock / Sandi)

i) 40 mm thick single shutter

M2

1779.32

46.48

82703.26

Junior Engineer  
Office of the Commissioner  
Ranchayat & Rural Development  
(Guwahati), Ghy-37

Joint Director (Tech.)  
Directorate P & R D, Assam  
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ROOFING			
20	Providing and fixing Steel roof Truss including welding red oxide painting	sq.ft. MT	5875.00 39.302 230899.25
21	Providing and fixing Dyna Roofing including necessary screw and washer etc.	M2	740.35 985.25 432.32 425943.28
CEILING			
22	A.C. board ceiling (4 mm thick)	sq.m MT	269.44 393.02 105895.31
Total Rs.			3053901.18 29,39,163.22

  
 28/10/10  
 Junior Engineer  
 Office of the Commissioner  
 Panchayat & Rural Development  
 Assam, Panjabari (Juripar), Ghy-37

  
 25/10/10  
 Joint Director (Tech.)  
 Directorate P & R D, Assam  
 Panjabari, Guwahati - 37





6	Providing and fixing clear sheet glass bedded in putty including necessary cutting of glass to required sizes.(4 mm thick)	M2	496.99	13.67	6793.85
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#### BRICK WORK


7	112mm thick 1 <sup>st</sup> class brick nogged wall in cement mortar embedded with protruding rod in column including racking out joint and curing complete as directed in super structure above plinth upto 1 <sup>st</sup> floor level (protruding M.S. rod/Tore steel will be measured and paid for separately under relevant item of steel work).				
	a)In cement mortar in prop. 1:4	M2	518.62	209.97	108894.64


#### PLASTERING


8	15 mm thick cement plaster in single coat on fair side of brick / concrete wall and ceiling for interior plastering upto 1 <sup>st</sup> floor level including arrises and/or rounded angles not exceeding 80 mm in girth and finished even and smooth including curing complete as directed.(In cement mortar 1:4)				
	a) Wall	M2	111.25	200.52	22307.85
9	15 mm thick cement plaster in two coats backing coat 10 mm finishing coat 5 mm thick on rough side of single or half brick wall for interior plastering upto 1 <sup>st</sup> floor level including risers, internal rounded angles not exceeding 80 mm in girth and finished even and smooth including curing complete as directed.				
	(a) In cement mortar 1:4	M2	138.57	241.66	33486.83
10	10 mm thick cement plaster on ceiling and soffit of stair case up to first floor level including curing complete as directed.	M2	138.57	71.56	9916.07

#### PAINTING

11	Applying priming coat over new wood based surfaces over 10 cm in width/girth after and including cleaning oil , grease , dirt and other foreign matter , sand papering and knotting.				
	(a) With ready mixed paint, brushing white lead for primary.	M2	29.70	30.82	915.35
12	Painting two coats (excluding primary coat) on new wood and wood based surfaces with enamel paint to give an even shade including cleaning the surfaces of dirt, dust and other foreign material, sand papering and stopping.(Surfaces over 10 cm in width/girth.)				
	(i) With "Apcolite.	M2	54.82	30.82	1689.55

  
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Sl.no	Item of work	Unit	Rate	Quantity	Amount in Rs.
13	Distemper with dry distemper of approved brand and manufacture (2 coats) and of required shade on new wall surface to give on even shade, over and including priming coat of white primer after thoroughly brushing the surface free from mortar droppings and other foreign matters including preparing the surface even and sand papered smooth.				

M2 62.42 442.18 27600.88

- 14 Extra over item 13.3.2b of above for distemping with dry distemping on ceiling and of the sloping roofs.

M2 62.42 71.56 4466.78

#### FLOORING

- 15 65 MM Thick P.C.C. flooring base of 25 mm down agg. With neat cement slurry

M2 449.48 71.56 32164.79

- 16 Marble stone slsb flooring including treads of steps exceeding 30 cm with laid over 20 mm thick base of cement plaster 1:6 laid and jointed with white cement slurry including rubbing and polishing complete with marble slab of specified quality.

20 mm thick marble slab

M2 2232.30 71.56 159743.39

- 17 6 mm thick glazed tiles wall & floor over cement slurry as per specification

M2 606.08 17.01 10309.42

#### STEEL RE-INFORCEMENT

- 18 Supplying, fitting and fixing in position reinforcement bars conforming to relevant IS. 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 20 G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete (upto 1<sup>st</sup> floor level).

(a) High Yield Strength Deformed Bars/Tor steel.

QTL 4746.00 36.63 173845.98

- 19 Providing fitting and fixing M.S. grill of required pattern for openings 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

KG 63.27 221.03 13984.57

Total Rs. 836608.97

7,94,423.12

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**CALCULATION FOR GROUND FLOOR  
ESTIMATE OF R.C.C BUILDING FOR D.R.D.A.**

Area=464.68

Wall length=215

W4=1, W3=3, W2=1, W1=3


Col=29/27

Beam=340

Door=7


Sl.no.	Item of work	Calculation	Quantity	Rates	Final quantity
1	Earth work in excavation	2.0x2.0x1.5x56	336	64.67	336.000
2	Plinth filling (river sand)	464.68x0.6	278.808	322.75	278.808
3	Brick soling ( Flat brick)				
	Bellow footing.	2.0x2.0x56	224.00	286.37	688.580
	Tie beam & Floor.	464.68x1	464.58		
	Total		688.58		
4	P.C.C.below footing	2.0x2.0x0.075x56	16.80	3733.63	16.800
5	R C C below PL				
	Footing.	1.5x1.5x.2x56	25.20	4734.15	88.718
	Footing.	(1.5x1.5+.30x.30)/2x.4x56	26.208		
	Column.	0.30x0.30x1.5x56	7.56		
	Beam.	340x.35x.25	29.75		
	Total		88.72		
6	R C C above PL to FF				
	Column.	0.30x0.30x3.1x56	15.624	4929.24	109.745
	Beam.	340x.30x.25	25.50		198.463
	Slab.	464.68x.125X1.1	63.894		
	Linte.l	72x.115x.15	1.24		
	Chajja.	10 % of 464.68x0.1x.075	3.49		
	Total		109.74		
7	Shutt below PL				
	Footing.	2.0x.0.2x4x56	89.60	191.27	491.668
	Tie beam.	340x.35x2	238.00		
	Column.	.35x1.5x4x56	117.600		
	Chajja.	10 % of 464.68x0.1x1	46.468		
	Total		491.668		
8	Shutt above PL to FF				
	Floor salb	464.68x1X1.1	511.148	243.80	934.668
	Floor beam.	340x.30x2	204.00		
	Column.	.35x2.8x4x56	219.52		
	Total		934.668		
9	230 tk Bk. Work in plinth	340x.225x.60	45.90	4632.29	45.900
10	Wood work in door/ win				
	Doors	D=(2.1+2.1+1)7	36.40	43969.25	1.222
	Window & ventilators	W4=(2+2+1.35x3)1	8.05		
		W3=(1.6+1.6+1.35x4)3	25.80		
		W2=(1+1+1.35+1.35)1	4.70		
		W1=(.06+.06+1.0+1.0)3	9.60		
		V4=(2+2+0.5x3)1	5.50		
		V3=(1.6+1.6+0.5x4)3	15.60		
		V2=(1+1+0.5+0.5)1	3.00		
	Total		108.65		


  
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11 Flush door	D=2.1x1.0x7	14.70	2947.16	14.700
12 window / ventil	W4=2x1.35x1	2.70	1779.33	16.230
	W3=1.6x1.35x3	6.48		30.930
	W2=1x1.35x1	1.35		
	W1=0.6x1x3	1.80		
	V4=2x.5x1	1.00		
	V3=1.6x.5x3	2.40		
	V2=1x.5x1	0.50		
	Total	16.23		
13 112 tk. Bk work in wall				
Room wall.	215x3.1-30.93	635.57	518.62	635.570
14 Out side plaster in wall	215x3.1-30.93	635.57	111.25	635.570
15 In side plaster in wall	215x3.1-30.93	635.57	138.57	839.570
Beam side.	340x0.30x2	204.00		
	Total	839.57		
16 Ceiling lpaster	464.68x1	464.68	138.57	464.680
17 65mm Thick floor base	464.68x1	464.68	449.48	464.680
18 25mm Thick Marble floor	58	58	2232.30	58.000
19 6 mm Thick glazed tiles	(3+1.5+3+.6)x2.1X3	51.03	606.08	51.030
20 Wood paint 1st	(30.93)X2	61.86	29.70	61.860
21 Wood paint 2st	(30.93)X2	61.86	54.82	61.860
22 Distemp.in wall	(635.57+839.57)	1475.140	62.42	1475.140
23 Distemp ceiling	464.68x1	464.68	62.42	464.680
24 Glass	16.23x1.5	27.35	496.99	27.345
25 Rolling shutters	3.0x2.1x8	50.40	2563.10	50.400
26 M.S. Grill in window/ven	16.23x15	243.45	63.27	367.200
M.S. Railing in ver/balc	11x0.75x15	123.75		
	Total	367.20		
27 Reinforcement	Up to plinth level		47.46	24994.480
Footing. 12 Tor.	1.50x12x2x0.89x56	1794.24		
Column. 20 Tor.	3.00x4x2.47x56	1659.84		
Column. 16 Tor.	3.00x2x1.58x56	530.88		
Colu ring 8 Tor.	1.10x25x0.39x56	600.60		
Tie Beam. 16 Tor.	340x6x.1.58	3223.20		
Tie's ring. 8 Tor.	1.10x340x9X0.39	1312.74		
	From PL to FF level			
Column. 20 Tor.	3.50x4x2.47x56	1936.48		
Column. 16 Tor.	3.50x2x1.58x56	619.36		
Colu ring 8 Tor.	1.10x25x0.39x56	600.60		
Floor.Beam. 20 Tor.	340x4x.2.47	3359.20		
Floor Beam. 16 Tor.	340x2x.1.58	1074.40		
Ring. 8 Tor.	1 10x340x9X0.39	1312.74		
Slab 10 Tor.	464.68x 9.0 Kg	4182.12		
Slab 8 Tor.	464.68 x 6.0 Kg	2788.08		
	Total	24994.48		

  
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CALCULATION FOR FIRST FLOOR  
ESTIMATE OF R.C.C BUILDING FOR D.R.D.A.

Area=464.68


W4=8, W3=3, W2=4, W1=1

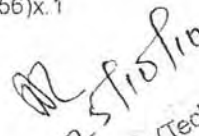
Col=29/19

Beam=185

Door=7

Sl.no.	Item of work	Calculation	Quantity	Rates	Final quantity
1	R C C above PL to FF				
	Column.	0.30x0.30x2.7x48x2	23.328	4929.24	67.853
	Beam.	185x.30x.25x2	27.75		67.853
	Slab.	71.56x.125x1.1	9.840		
	Lintel	100x.115x.15x2	3.45		
	Chajja.	10 % of 464.68x0.1x.075	3.49		
	Total		67.85		
2	Shutt above PL to FF				
	Floor salb	71.56x1x1.1	78.716	243.80	723.504
	Chajja.	10 % of 464.68x0.1x.075	46.468		
	Floor beam.	185x.30x2x2	222.00		
	Column.	.35x2.8x4x48x2	376.32		
	Total		723.504		
3	Wood work in door/ win				
	Doors	D=(2.1+2.1+1)7	36.40	43969.25	1.943
	Window & ventilators	W4=(2+2+1.35x3)8	64.4		
		W3=(1.6+1.6+1.35x4)3	25.80		
		W2=(1+1+1.35+1.35)4	18.80		
		W1=(.06+.06+1.0+1.0)1	3.20		
		V4=(2+2+0.5x3)1	5.50		
		V3=(1.6+1.6+0.5x4)3	15.60		
		V2=(1+1+0.5+0.5)1	3.00		
	Total		172.70		
4	Flush door	D=2.1x1.0x7	14.70	2947.16	14.700
5	window / ventil				
		W4=2x1.35x8	21.60	1779.33	46.480
		W3=1.6x1.35x3	6.48		61.180
		W2=1x1.35x4	5.40		
		W1=0.6x1x1	0.60		
		V4=2x.5x8	8.00		
		V3=1.6x.5x3	2.40		
		V2=1x.5x4	2.00		
	Total		46.48		
6	112 tk. Bk work in wall				
	Room wall.	100x2.7x2-61.18	478.82	518.62	478.820
7	Out side plaster in wall	100x2.7x2-61.18	478.82	111.25	478.820
8	In side plaster in wall	100x2.7x2-61.18	478.82	138.57	700.820
	Beam side.	185x0.30x2x2	222.00		
	Total		700.82		
9	Ceiling lpaster	71.56x1+464.68x0.1	118.028	138.57	118.028
10	65mm Thick floor base	464.58x1	464.58	449.48	464.580
11	25mm Thick Marble floor	50	50	2232.30	50.000
12	Steel truss	(464.58-71.56)x.1	39.302	5875.00	39.302

  
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13 0.80 mm Dyna roofing	(464.58-71.56)x1x1.1	432.322	985.25	432.322
14 A.C. board ceiling	(464.58-71.56)x1	393.02	269.44	393.020
15 6 mm Thick glazed tiles	(3+1.5+3+.6)x2.1X1	17.01	606.08	17.010
16 Wood paint 1st	(61.18)X2	122.36	29.70	122.360
17 Wood paint 2st	(61.18)X2	122.36	54.82	122.360
18 Distemp.in wall	(478.82+700.82)	1179.640	62.42	1179.640
19 Distemp ceiling	71.56x1	71.56	62.42	71.560
20 Glass	46.48x1.5	69.72	496.99	69.720
21 M.S. Grill in window/ven	46.48x15	697.2	63.27	1507.200
M.S. Railing in ver/balc	72x0.75x15	810.00		
	Total	1507.20		

22 Reinforcement			47.46	12737.810
Column. 20 Tor. 3.50x4x2.47x48x2		3319.68		
Column. 16 Tor. 3.50x2x1.58x48x2		1061.76		
Colu ring 8 Tor. 1.10x25x0.39x48x2		1029.60		
Floor.Beam. 20 Tor. 185x4x2.47x2		3655.60		
Floor Beam. 16 Tor. 185x2x1.58x2		1169.20		
Ring. 8 Tor. 1.10x185x9X0.39x2		1428.57		
Slab 10 Tor. 71.56x 9.0 Kg		644.04		
Slab 8 Tor. 71.56 x 6.0 Kg		429.36		
	Total	12737.81		

  
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**CALCULATION FOR SECOND FLOOR  
ESTIMATE OF R.C.C BUILDING FOR D.R.D.A.**

Wall length=47.25		Area=71.56	W4=1, W3=1, W2=1, W1=1	Col=14	Beam=68.58	Door=3
Sl.no.	Item of work	Calculation	Quantity	Rates	Final quantity	
1	R C C above PL to FF					
	Column.	0.30x0.30x3.1x14	3.906	4929.24	24.021	
	Beam.	68.58x.30x.25	5.14		24.021	
	Slab.	71.56x.125X1.1	9.840			
	Lintel	47.25x.115x.15	0.82			
	Chajja.	10 % of 71.56x0.1x.075	0.54			
		Total	20.24			
	Stair Head room					
	Column.	0.30x0.30x2.1x4	0.756			
	Beam.	(4.8+4.8+2.4+2.4)x0.4x0.25	1.44			
	Slab.	4.8x2.4x.125X1.1	1.584			
		Total	3.78			
2	Shutt above PL to FF					
	Floor slab	71.56x1X1.1	78.716	243.80	207.816	
	Floor beam.	68.58x.30x2	41.15			
	Column.	.35x2.8x4x14	54.88			
		Total	174.744			
	Stair Head room					
	Slab	4.8x2.4x1X1.1	12.672			
	Beam.	(4.8+4.8+2.4+2.4)x.30x2	8.64			
	Column.	.35x2.1x4x4	11.76			
		Total	33.072			
3	Wood work in door/ win					
	Doors	D=(2.1+2.1+1)3	15.60	43969.25	0.606	
	Window & ventilators	W4=(2+2+1.35x3)1	8.05			
		W3=(1.6+1.6+1.35x4)1	8.60			
		W2=(1+1+1.35+1.35)1	4.70			
		W1=(.06+.06+1.0+1.0)1	3.20			
		V4=(2+2+0.5x3)1	5.50			
		V3=(1.6+1.6+0.5x4)1	5.20			
		V2=(1+1+0.5+0.5)1	3.00			
		Total	53.85			
4	Flush door	D=2.1x1.0x3	6.30	2947.16	6.300	
5	window / ventil					
		W4=2x1.35x1	2.70	1779.33	9.110	
		W3=1.6x1.35x1	2.16		15.410	
		W2=1x1.35x1	1.35			
		W1=0.6x1x1	0.60			
		V4=2x.5x1	1.00			
		V3=1.6x.5x1	0.80			
		V2=1x.5x1	0.50			
		Total	9.11			
6	112 tk. Bk work in wall					
	Room wall.	47.25x2.7-15.41	131.065	518.62	209.965	
	parapet wall.	(12+12+7.5+7.5)x1.1	42.9			
	Head Room wall	(4.8+4.8+2.4+2.4)x2.5	36.00			
		Total	209.97			

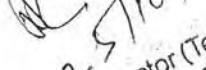
  
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7 Out side plaster in wall	47.25x2.9-15.41	121.615	111.25	200.515
parapet wall.	(12+12+7.5+7.5)x1.1	42.9		
Head Room wall.	(4.8+4.8+2.4+2.4)x2.5	36.00		
	Total	200.515		
8 In side plaster in wall	47.25x2.9-15.41	121.615	138.57	241.663
Beam side.	68.58x0.30x2	41.15		
parapet wall.	(12+12+7.5+7.5)x1.1	42.9		
Head Room wall.	(4.8+4.8+2.4+2.4)x2.5	36.00		
	Total	241.66		
9 Ceiling plaster	71.56x1	71.56	138.57	71.560
10 65 mm Thick floor base	71.56x1	71.56	449.48	71.560
11 25 mm Thick Marble floor	71.56x1	71.56	2232.30	71.560
11 6 mm Thick glazed tiles	(3+1.5+3+.6)x2.1x1	17.01	606.08	17.010
12 Wood paint 1st	(15.41)x2	30.82	29.70	30.820
13 Wood paint 2st	(15.41)x2	30.82	54.82	30.820
14 Distemp.in wall	(200.51+241.66)	442.178	62.42	442.178
15 Distemp ceiling	71.56x1	71.56	62.42	71.560
16 Glass	9.11x1.5	13.67	496.99	13.665
17 M.S. Grill in window/ven	9.11x15	136.65	63.27	221.025
M.S. Railing in ver/balc	7.5x0.75x15	84.38		
	Total	221.03		
18 Reinforcement			47.46	3663.215
Column. 20 Tor.	3.50x4x2.47x14	484.12		
Column. 16 Tor.	3.50x2x1.58x14	154.84		
Colu ring 8 Tor.	1.10x25x0.39x14	150.15		
Floor.Beam. 20 Tor.	68.58x4x.2.47	677.57		
Floor Beam. 16 Tor.	68.58x2x.1.58	216.71		
Ring. 8 Tor.	1.10x68.58x9X0.39	264.79		
Slab 10 Tor.	71.568x 9.0 Kg	644.04		
Slab 8 Tor.	71.56 x 6.0 Kg	429.36		
Stair head room				
Column. 20 Tor.	3.50x4x2.47x4	138.32		
Column. 16 Tor.	3.50x2x1.58x4	44.24		
Colu ring 8 Tor.	1.10x25x0.39x4	42.90		
Floor.Beam. 20 Tor.	14.40x4x.2.47	142.27		
Floor Beam. 16 Tor.	14.40x2x.1.58	45.50		
Ring. 8 Tor.	1.10x14.40x9X0.39	55.60		
Slab 10 Tor.	4.8x2.4x 9.0 Kg	103.68		
Slab 8 Tor.	4.8x2.4 x 6.0 Kg	69.12		
	Total	3663.21		

  
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