

GOVERNMENT OF ASSAM  
OFFICE OF THE CACHAR ZILLA PARISHAD  
CACHAR : SILCHAR

No. CZP/TASFC-619/pt-I/2010/47,

Date: 17.10.2012

To,  
The Director,  
Finance (Economic Affairs) Department,  
Dispur, Guwahati – 06.

Sub: - **Submission of Model Plan & Estimate of Basic Grants under Thirteen Finance Commission – 2012-13 (1<sup>st</sup> Installment).**

Ref: - **Your W.T Message No. FEA(SFC)165/2010/Pt/82-A, dated Dispur, October 16, 2012.**

Sir,

With reference to the subject cited above, I am to furnish herewith the Model Plan & Estimate for construction of new market shed of Basic Grants under 13<sup>th</sup> Finance Commission - 2012-13 (1<sup>st</sup> Installment).

This is for information and necessary action.

Yours faithfully,

Encl: **Plan & Estimate 1 No.**

  
Chief Executive Officer,  
Cachar Zilla Parishad, Silchar

Memo No. CZP/TASFC-619/pt-I/2010/47,  
Copy to: -

1. The commissioner, Panchayat & Rural Development, Assam, Panjabari, Juripar, Guwahati – 37 for favour of kind information.
2. The Joint Secretary to the Govt. of Assam, Panchayat & Rural Development Deptt., Dispur Guwahati – 06 for information.

  
Chief Executive Officer,  
Cachar Zilla Parishad, Silchar



## GOVT. OF ASSAM

### OFFICE OF THE CHIEF EXECUTIVE OFFICER, CACHAR ZILLA PARISHAD :: SILCHAR

#### PLAN & ESTIMATE (MODEL)

Name of the work : Construction of New Market Shed in various places of Cachar District under Cachar Zilla Parishad, Silchar under 13<sup>th</sup> Finance Commission Schemes for the year 2012-13 (1<sup>st</sup> Installment).

Name of District : Cachar (Assam)

Permissible Head : Building for accommodation market facility.

Name of Executing Agency : Cachar Zilla Parishad, Silchar

**ESTIMATED AMOUNT : RS. 25,00,000.00**

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Name of work : Construction of Market Shed in various places of Cachar District under Cachar Zilla Parishad, Silchar under T.F.C. Scheme for the year 2012-13.

**ABSTRACT OF COST**


Item No. 1 : Cost for construction of open Market shed  
Plinth Area = 100.00 Sqm. = 3 Nos.  
@Rs.5,06,400.00/Each.....Rs.15,19,200.00

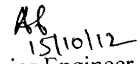
Item No. 2 : Cost for construction of open Market shed  
Plinth Area = 50.00 Sqm. = 2 Nos.  
@Rs.2,84,700.00/Each.....Rs. 5,69,400.00

Item No.3 : Cost of approach road with plinth protection,  
Drain for outlet etc.....Rs. 3,61,800.00

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Total = Rs.24,50,400.00

Add @2% for Contingency charges  
& sign board etc. .... = (+) Rs. 49,008.00  
**Grand Total = Rs.24,99,408.00**  
**Say Rs.25,00,000.00**  
**(Rupees Twenty five Lakhs ) only.**

  
Chief Executive Officer,  
Cachar Zilla Parishad, Silchar.  
**Chief Executive Officer**  
Cachar Zilla Parishad

  
15/10/12  
Junior Engineer,  
Cachar Zilla Parishad, Silchar.

1. Name of District : Cachar, Silchar.

2. Name of Implementing Agency : Cachar Zilla Parishad, Silchar.

3. Name of work : Construction of Market Shed in various places of Cachar District under Cachar Zilla Parishad, Silchar under T.F.C. Scheme for the year 2012-13.

Estimated Amount : Rs.25,00,000.00

..... REPORT .....

This working estimate amounting to Rs.25.00 Lakhs (Rupees Twenty five Lakhs ) only has been framed to show the probable cost of the above mentioned work.

The estimate is framed to make a Market Shed in Assam Type *semi* R.C.C., Building in various places of Cachar District as it is urgently needed to perform any kind of social functions and this will be very fruitful to facilitate programme time to time as need for. The Construction of permanent structure in place of existing temporary shed for providing good foundation to the business man which they required.

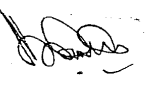
Under the above circumstances this estimate is prepared to face the growthful demand of the people of various places of Cachar District in Market places and vast area people.

Keeping the mind the following provision have been made in the estimate.

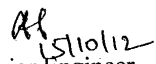
1. Assam Type Building.
2. Platform/Approach road.

The rate has been quoted on the basis of the schedule of rates for P.W.D Building (Civil works) of 2010-11 for all Division under Assam P.W.D. (Building) .

All works will be carried out as per A.P.W.D. general specification current in the State.

  
Chief Executive Officer,  
Cachar Zilla Parishad, Silchar.

**Chief Executive Officer**  
Cachar Zilla Parishad

  
15/10/12  
Junior Engineer,  
Cachar Zilla Parishad, Silchar.



ESTIMATE

Name of work : Construction of Market Shed in various places of Cachar District under Cachar Zilla Parishad, Silchar under T.F.C. Scheme for the year 2012-13.

Item of work : As per Schedule of rates for P.W.D. Building (Civil works) for all Divisions under Assam P.W.D. 2010-11 which is current in the State of Assam.

Item No.1/1.1 : Earth work in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling ) etc. removal of surplus earth with all leads and lift as directed and specified etc. including bailing out water where necessary as directed and specified.  
(A) Up to a depth of 2.00M. below the existing ground level.  
(a) In ordinary soil.  
Column :  $1 \times 13 \times 0.90 \times 0.60 \times 0.90 = 6.318 \text{ Cum.}$

@Rs.64.67/Cum..... Rs. 409.00

Item No.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 panel after preparing the sub-grade as directed including all labour and materials and if necessary dewatering , complete.

(a) Brick on flat soling.  
Column :  $1 \times 13 \times 0.90 \times 0.60 = 7.02 \text{ Sqm.}$   
Tie Beam / Floor :

$1 \times 10.00 \times \frac{5.00}{1} = 50.00 \text{ Sqm.}$   
Total = 57.02 Sqm.

@Rs.286.37/Sqm.....Rs.16,329.00

Item No.3/2.1.1: Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, bricks works etc. as directed and specified including dewatering if necessary and curing complete (Shuttering where necessary shall be measured and paid separately).  
(b) In prop.1:4:8.

Column :  $1 \times 13 \times 0.90 \times 0.60 \times 0.10 = 0.702 \text{ Cum.}$

@Rs.3398.10/Cum..... Rs. 2,385.00

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CONTD. Rs.19,123.00

B.F. Rs.19,123.00

Item No.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 etc supports, chairs, spacers etc. complete. (up to 1<sup>st</sup> floor level).

(b) ISI approved super ductile TMT  
(i) TATA/ SAIL.

Column footing : 8mm dia on both way.

$$1 \times 13 \times 8 \times 0.65 = 67.60 \text{ Rm.}$$

$$1 \times 13 \times 6 \times 0.95 = 74.10 \text{ Rm.}$$

$$\text{Total} = 141.70 \text{ Rm.}$$

$$@0.39 \text{ Kg./Rm.} \dots = 55.26 \text{ Kg.}$$

Tie Beam 12mm dia for all around.

$$\text{Tie Beam : } (2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$$

$$4 \times 35.00 = 140.00 \text{ Rm.}$$

Column : 12mm dia = 4 Nos.

$$13 \times 4 \times 5.00 = 260.00 \text{ Rm.}$$

$$\text{Total} = 400.00 \text{ Rm.}$$

$$@0.89 \text{ Kg./Rm.} \dots = 356.00 \text{ Kg.}$$

Lintel 10mm dia for all around.

$$(2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$$

$$1 \times 4 \times 35.00 = 110.40 \text{ Rm.}$$

$$@0.62 \text{ Kg./Rm.} \dots = 68.45 \text{ Kg.}$$

Lintel 10mm dia for top Lintel.

$$(2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$$

$$1 \times 4 \times 35.00 = 110.40 \text{ Rm.}$$

$$@0.62 \text{ Kg./Rm.} \dots = 68.45 \text{ Kg.}$$

$$\text{Total} = 548.16 \text{ Kg.}$$

$$\text{Say } 5.482 \text{ Qtls.}$$

$$@\text{Rs.}5290.41/\text{Qtl.} \dots \text{Rs.}29,002.00$$

© ISI approved M.S Rod.

6mm dia rod.@115cm c/c

$$\text{(i) Column : } 1 \times 13 \times 41 \times 0.75 = 399.75 \text{ Rm}$$

$$\text{(ii) Tie Beam : } 1 \times 305 \times 0.75 = 228.75 \text{ Rm.}$$

$$\text{(iii) Lintel : } 1 \times 305 \times 0.55 = 167.75 \text{ Rm.}$$

$$1 \times 305 \times 0.40 = 122.00 \text{ Rm.}$$

$$\text{Total} = 918.25 \text{ Rm.}$$

$$@0.22\text{Kg./Rm.} \dots = 202.02 \text{ Kg.}$$

$$\text{Say } 2.02 \text{ Qtls.}$$

$$@\text{Rs.}5241.78/\text{Qtl.} \dots \text{Rs.}10,588.00$$

Item No.5/3.1.1 : Providing form work of ordinary timber planking

so as to give a rough finish including centering, shuttering etc. 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.

CONTD.Rs.58,713.00

B.F. Rs.58,713.00

(ii) Using 25mm thick plank

Column footings :

$$8 \times 2 \times 0.80 \times 0.20 = 2.56 \text{ Sqm.}$$

$$8 \times 2 \times 0.70 \times 0.20 = 2.24 \text{ Sqm.}$$

$$8 \times 2 \times \frac{1}{2}(0.80 + 0.20) \times 0.35 = 2.80 \text{ Sqm.}$$

$$8 \times 2 \times \frac{1}{2}(0.70 + 0.25) \times 0.35 = 2.66 \text{ Sqm.}$$

$$\text{Total} = 10.26 \text{ Sqm}$$

$$\text{@Rs.140.84/Sqm.....Rs. 1,445.00}$$

3.1.1.2 : Sides of tie beams, plinth beams,  
grade beams etc .at or below plinth level.

(ii) Using 25mm thick.

$$(2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$$

$$\text{Tie Beam} = 2 \times 35.00 \times 0.30 = 21.00 \text{ Sqm.}$$

$$\text{@Rs.191.27/Sqm.....Rs. 4,017.00}$$

3.1.1.3 : Columns, pillars, post & strut.

(a) Square, Rectangular, polygonal in plane  
vertical face. (i) Using 25mm thick.

$$\text{Lintel} = (2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$$

$$2 \times 35.00 \times 0.20 = 14.00 \text{ Sqm.}$$

Column up to P.L :

$$1 \times 8 \times 2 \times 3.00 \times 0.20 = 9.60 \text{ Sqm.}$$

$$1 \times 8 \times 2 \times 3.00 \times 0.15 = 7.20 \text{ Sqm}$$

$$\text{Total} = 30.80 \text{ Sqm}$$

$$\text{@Rs.213.73/Sqm.....Rs.6,583.00}$$

Item No.6/ 2.2.1:Providing and laying plain/reinforcement cement  
concrete works in prop.1:2:4 including dewatering  
if necessary and curing complete etc. for reinforcement  
cement concrete work (Form work and reinforcement  
will be measured and paid separately).

(I) Using mixture machine.

(a) In sub-structure upto plinth level.

Foundation, footing columns, with base tie and  
plinth beam etc.other works not less than 100mm  
thick up to P.L.

(a) M-15 or Prop.1:2:4.

$$\text{Column} : 13 \times 0.80 \times 0.60 \times 0.15 = 0.936 \text{ Cum.}$$

$$13 \times \frac{1}{2}\{(0.80 \times 0.60)+(0.25 \times 0.20)\} \times 0.275 = 0.947 \text{ Cum.}$$

$$13 \times 1.15 \times 0.20 \times 0.25 = 0.748 \text{ Cum.}$$

$$\text{Tie Beam} (2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$$

$$35.00 \times 0.30 \times 0.25 = 2.625 \text{ Cum.}$$

$$\text{Less Column} : 13 \times 0.30 \times 0.25 \times 0.20 = (-) 0.195 \text{ Cum.}$$

$$\text{Total} = 5.061 \text{ Cum.}$$

$$\text{@Rs.4734.15/Cum.....Rs.23,960.00}$$

(b) In Super-structure from plinth level  
up to 1<sup>st</sup> floor level.

(ii) Columns, pillars, posts, struts etc.  
including preparing the top surface and  
finishing of nosing.

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CONTD. Rs.94,718.00



B.F. Rs.94,718.00

(a)M-15 or Prop.1:2:4.

Column :  $1 \times 13 \times 3.00 \times 0.20 \times 0.15 = 1.170 \text{ Cum.}$

Lintel :  $(2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$

$35.00 \times 0.15 \times 0.10 = 0.525 \text{ Cum}$

Less Column :

$13 \times 0.20 \times 0.15 \times 0.10 = (-) 0.039 \text{ Cum}$

Top Lintel :  $(2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$

$35.00 \times 0.10 \times 0.10 = 0.350 \text{ Cum}$

Less Column :

$13 \times 0.20 \times 0.10 \times 0.10 = (-) 0.026 \text{ Cum}$

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Total = 1.980 Cum

@Rs 4929.24/Cum.....Rs.9,760.00

Item No.7/4.1.4 : Brick work in cement mortar with 1<sup>st</sup> class brick including racking out joints, and dewatering if necessary and curing complete as directed in sub-structure up to plinth level.

(b) In prop.1:4.

Wall above Tie Beam :

$(2 \times 10.00) + (2 \times 5.00) = 30.00 \text{ Rm.}$

$1 \times 30.00 \times 0.60 \times 0.224 = 4.032 \text{ Cum}$

Less Column:

$13 \times 0.60 \times 0.20 \times 0.224 = (-) 0.349 \text{ Cum.}$

Total = 3.683 Cum.

@Rs.4,632.29/Cum..... Rs.17,061.00

Item No.8/1.3. : 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.

© With silt (predominantly non-plastic) by truck carriage including loading and unloading.

Floor :  $1 \times 9.75 \times 4.75 \times 0.60 = 27.79 \text{ Sqm.}$

@Rs.322.75/Cum.....Rs.8,969.00.

Item No.9/4.1.8 : 75mm thick 1<sup>st</sup> class brick nogged wall in cement mortar including racking out joints, and curing complete as directed in super-structure above plinth level up to 1<sup>st</sup> floor level (Protruding rod/ Tor steel of column to be embedded in cement mortar and will be measured and paid separately).

(a)In prop.1:4.

Wall over Lintel & below top Lintel.

$(2 \times 10.00) + (3 \times 5.00) = 35.00 \text{ Rm.}$

$1 \times 35.00 \times 0.55 = 19.25 \text{ Sqm.}$

G. Wall :  $2 \times 2 \times 2.50 \times \frac{1}{2}(0.90+0.10) = 5.00 \text{ Sqm.}$

Less (i) Column:  $13 \times 0.55 \times 0.20 = (-) 1.43 \text{ Sqm}$

Total = 22.82 Sqm.

@Rs.357.54/Sqm.....Rs. 8,159.00

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CO. Rs.1,38,667.00

B.F. Rs.1,38,667.00

Item No.10/ 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. cleats, 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.

50mm M.S. Tube.

King Post : 1 x 5 x 1.00 = 5.00 Rm.

Queen Post : 2 x 5 x 0.60 = 6.00 Rm.

Strut : 2 x 5 x 1.10 = 11.00 Rm.

1 x 5 x 0.60 = 3.00 Rm.

D/Tie : 2 x 5 x 5.20 = 52.00 Rm.

Rafter : 2 x 5 x 3.30 = 33.00 Rm.

Total = 110.00 Rm.

@3.87 Kg./Rm.....= 425.70 Kg.

Purlin 40mm dia Tube:

2 x 5 x 11.40 = 114.00 Rm.

@2.87 Kg./Rm.....= 327.18 Kg.

M.S.base plate : 2 x 10 x 3.00 Kg. = 60.00 Kg.

Total = 812.88 Kg.

Say 8.13 Qtls.

@Rs.7,126.00/QtI.....Rs.57,934.00

Item No.11/ 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 1.6mm thick limpet washer complete excluding cost of roof truss, purlins etc. (Roof trusses and purlin etc. to be measured and paid separately).

(e) 0.63mm thick.

2 x 11.50 x 3.35 = 77.05 Sqm.

@Rs. 425.09/Sqm.....Rs.32,753.00

Item No.12/8.1.4 : Providing galvd. Iron ridging of TATA SHAKTEE/SAIL including supplying and fixing necessary galvd. Screw/ washers etc. complete as directed.

(e) 0.63mm thick (ii) 230mm lapping.

1 x 11.50 = 11.50 Rm..

@Rs.148.88/Rm.....Rs. 1,712.00

CON. Rs.2,31,066.00

B.F. Rs.2,31,066.00

Item No.13/6.2.1: 10mm thick cement plaster in single coat on fair/rough side of walls for interior plastering up to 1<sup>st</sup> floor level including arises etc. including curing complete as directed.

(b) In prop.1:4.

Plinth wall :  $2 \times 10.25 = 20.50$  Rm.

$2 \times 5.25 = 10.50$  Rm.

Total =  $31.00$  Rm.  $\times 0.50 = 15.50$  Sqm

Column :  $1 \times 13 \times (0.20+0.15) \times 2 \times 2.20 = 20.02$  Sqm.

Wall over Lintel & below top Lintel.

$(2 \times 10.00) + (3 \times 5.00) = 35.00$  Rm.

$1 \times 2 \times 35.00 \times 0.80 = 56.00$  Sqm.

G. Wall :  $2 \times 2 \times 2 \times 2.50 \times \frac{1}{2}(0.90+0.10) = 10.00$  Sqm.

Total =  $101.52$  Sqm.

@Rs.88.60/Sqm.....Rs. 8,995.00

Item No.14/5.1.4 : 65mm thick cement concrete floor consisting of 50mm under layer of cement in prop.1:3:6 and 15mm thick wearing layer in cement concrete in prop.1:1:2 etc. including curing etc. complete as directed.

Floor :  $1 \times 10.00 \times 5.00 = 50.00$  Sqm

@Rs.449.48/Sqm.....Rs.22,474.00

Item No.15/9.4.1: Providing barge board of size 200mm x 20mm with 1<sup>st</sup> class local Hollock/ Bonsum timber including fitting and fixing with necessary wood screws etc. complete

$1 \times (2 \times 11.40) + (2 \times 2 \times 3.30) = 36.00$  Rm.

@Rs.224.81/Rm.....Rs. 8,093.00

Item No. 16 / 7.1.5 : Providing single layer bamboo mat ceiling with lattice pattern jaffri or mesh size 40mm x 40mm made out of bamboo slips of size 5mm x 2mm size at bottom stiffened with bamboo slip of 25mm x 5mm size (Ceiling joist to be measured and paid separately).

Ceiling :  $1 \times 9.80 \times 4.80 = 47.04$  Sqm

@Rs,124.06/Sqm.....Rs. 5,836.00

Item No.17/13.2.2 (f): Distempering with dry distemper of approved brand and manufacture (Two coats) and required shade on new wall surface to give an even shade over and including a priming coat of white primer after thoroughly brushing the surface including preparing surface even and sand papered smooth.

Plinth wall :  $2 \times 10.25 = 20.50$  Rm.

$2 \times 5.25 = 10.50$  Rm.

Total =  $31.00$  Rm.  $\times 0.50 = 15.50$  Sqm

Column :  $1 \times 13 \times (0.20+0.15) \times 2 \times 2.20 = 20.02$  Sqm.

Wall over Lintel & below top Lintel.

$(2 \times 10.00) + (3 \times 5.00) = 35.00$  Rm.

$1 \times 2 \times 35.00 \times 0.80 = 56.00$  Sqm.

G. Wall :  $2 \times 2 \times 2 \times 2.50 \times \frac{1}{2}(0.90+0.10) = 10.00$  Sqm.

Total =  $101.52$  Sqm.

@Rs.62.42/Sqm.....Rs. 6,337.00

CON. Rs.2,82,801

B.F. Rs.2,82,801.00

Item No.18/14..3.3.: Applying two coats of wood preservative on wood and wood based surfaces including preparing the surface by thoroughly cleaning oil, grease dirt and other foreign matter, sand papering and knotting.  
(a) With kiricide oil.

Ceiling : 1x 2 x 9.80 x 4.80 = 94.08 Sqm

@Rs.19.72/Sqm.....Rs. 1,855.00

*Total = Rs.2,84,656.00*

*Say Rs.2,84,700.00*

*(Rupees Two Lakhs Eighty four thousand & Seven hundred) only.*

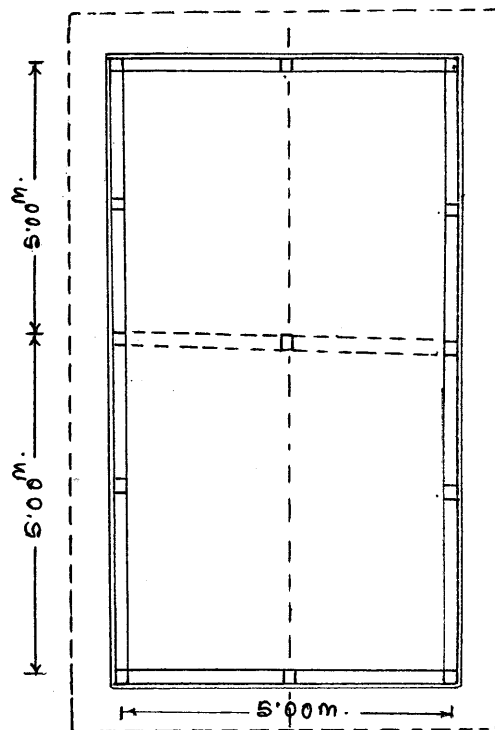
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*15/10/12*

Junior Engineer,

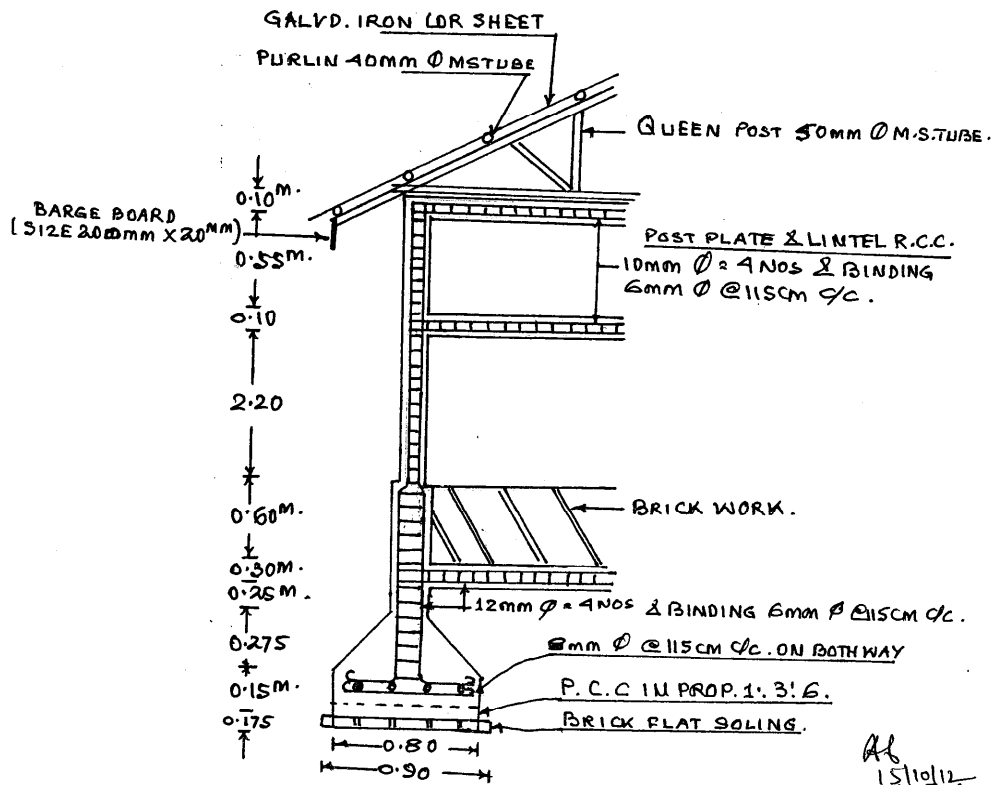
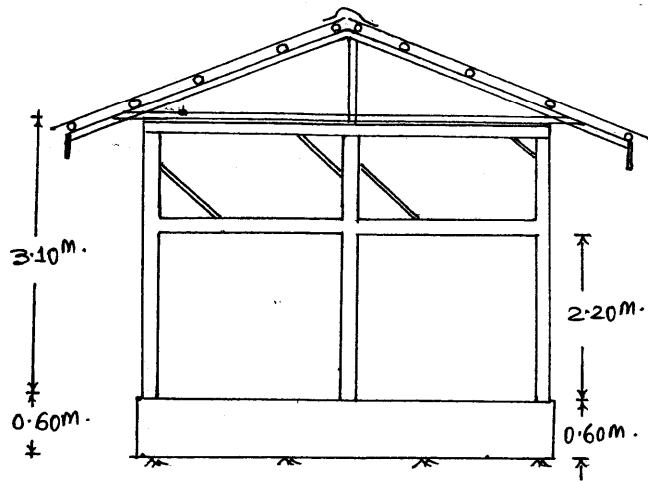
Cachar Zilla Parishad, Silchar.

one of work: Construction of Market shed in various places of Cachar district under Cachar Zilla Parishad, Silchar under T. F. C. Scheme for 2012-13.



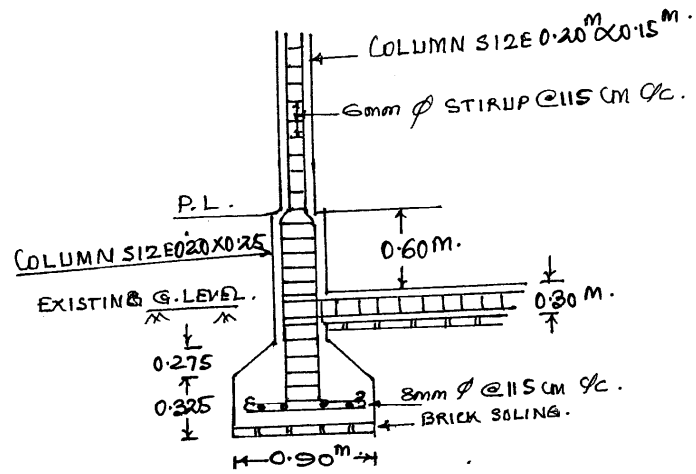
PLAN  
SCALE: 1CM = 1.00M.

As  
15/10/12  
Junior Engineer  
Cachar Zilla Parishad  
Silchar

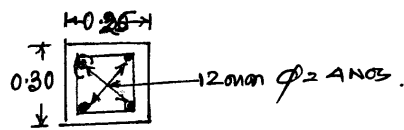


CROSS SECTION OF COLUMN & TIE BEAM ETC.  
(NOT TO SCALE)

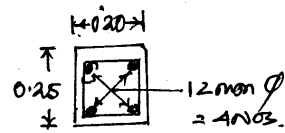
Ab  
15/10/12  
Junior Engineer  
Cachar Zilla Parishad  
Silchar



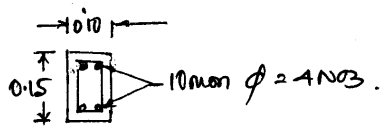
CROSS-SECTION OF COLUMN.



C/S OF TIE BEAM.



C/S OF COLUMN.



C/S OF LINTEL.

AB  
 15/10/12  
 Junior Engineer  
 Cachar Zilla Parishad  
 Sivasar

ESTIMATE

Name of work : Construction of Market Shed in various places of Cachar District under Cachar Zilla Parishad, Silchar under T.F.C. Scheme for the year 2012-13.

Item of work : As per Schedule of rates for P.W.D. Building (Civil works) for all Divisions under Assam P.W.D. 2010-11 which is current in the State of Assam.

Item No.1/1.1 : Earth work in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling ) etc. removal of surplus earth with all leads and lift as directed and specified etc. including bailing out water where necessary as directed and specified.  
(A) Up to a depth of 2.00M. below the existing ground level.

(a) In ordinary soil.

Column :  $1 \times 21 \times 0.90 \times 0.60 \times 0.90 = 10.206 \text{ Cum.}$

@Rs.64.67/Cum..... Rs. 660.00

Item No.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 panel after preparing the sub-grade as directed including all labour and materials and if necessary dewatering , complete.

(a) Brick on flat soling.

Column :  $1 \times 21 \times 0.90 \times 0.60 = 11.34 \text{ Sqm.}$

Tie Beam / Floor :

$1 \times 20.00 \times 5.00 = 100.00 \text{ Sqm.}$

Total = 111.34 Sqm.

@Rs.286.37/Sqm.....Rs.31,884.1

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

(b) In prop.1:4:8.

Column :  $1 \times 21 \times 0.90 \times 0.60 \times 0.10 = 1.134 \text{ Cum.}$

@Rs.3398.10/Cum..... Rs. 3,853

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CONTD. Rs.36,397



B.F. Rs.36,397.

Item No.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 etc supports, chairs, spacers etc. complete. (up to 1<sup>st</sup> floor level).

(b) ISI approved super ductile TMT  
(i) TATA/ SAIL.

Column footing : 8mm dia on both way.

$$1 \times 21 \times 8 \times 0.65 = 109.20 \text{ Rm.}$$

$$1 \times 21 \times 6 \times 0.95 = 119.70 \text{ Rm.}$$

$$\text{Total} = 228.90 \text{ Rm.}$$

$$\text{@}0.39 \text{ Kg./Rm.} \dots \dots = 89.271 \text{ Kg.}$$

Tie Beam 12mm dia for all around.

$$\text{Tie Beam : } (2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$$

$$4 \times 55.00 = 220.00 \text{ Rm.}$$

Column : 12mm dia = 4 Nos.

$$21 \times 4 \times 5.00 = 420.00 \text{ Rm.}$$

$$\text{Total} = 640.00 \text{ Rm.}$$

$$\text{@}0.89 \text{ Kg./Rm.} \dots \dots = 569.60 \text{ Kg.}$$

Lintel 10mm dia for all around.

$$(2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$$

$$1 \times 4 \times 55.00 = 220.00 \text{ Sqm.}$$

$$\text{@}0.62 \text{ Kg./Rm.} \dots \dots = 136.40 \text{ Kg.}$$

Lintel 10mm dia for top Lintel.

$$(2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$$

$$1 \times 4 \times 55.00 = 220.00 \text{ Sqm.}$$

$$\text{@}0.62 \text{ Kg./Rm.} \dots \dots = 136.40 \text{ Kg.}$$

$$\text{Total} = 931.671 \text{ Kg.}$$

$$\text{Say } 9.32 \text{ Qtls.}$$

$$\text{@Rs.5290.41/Qtl.} \dots \dots \text{Rs.49,307}$$

© ISI approved M.S Rod.

6mm dia rod. @115cm c/c

$$\text{(i) Column : } 1 \times 21 \times 41 \times 0.75 = 645.75 \text{ Rm}$$

$$\text{(ii) Tie Beam : } 1 \times 478 \times 0.75 = 358.50 \text{ Rm.}$$

$$\text{(iii) Lintel : } 1 \times 478 \times 0.55 = 262.90 \text{ Rm.}$$

$$1 \times 478 \times 0.40 = 191.20 \text{ Rm.}$$

$$\text{Total} = 1458.35 \text{ Rm.}$$

$$\text{@}0.22 \text{ Kg./Rm.} \dots \dots = 320.84 \text{ Kg.}$$

$$\text{Say } 3.21 \text{ Qtls.}$$

$$\text{@Rs.5241.78/Qtl.} \dots \dots \text{Rs.16,8}$$

Item No.5/3.1.1 : Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering etc. 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.

CONTD.Rs.1,02

B.F. Rs.1,02,530

(ii) Using 25mm thick plank

Column footings :

$$8 \times 2 \times 0.80 \times 0.20 = 2.56 \text{ Sqm.}$$

$$8 \times 2 \times 0.70 \times 0.20 = 2.24 \text{ Sqm.}$$

$$8 \times 2 \times \frac{1}{2}(0.80 + 0.20) \times 0.35 = 2.80 \text{ Sqm.}$$

$$8 \times 2 \times \frac{1}{2}(0.70 + 0.25) \times 0.35 = 2.66 \text{ Sqm.}$$

$$\text{Total} = 10.26 \text{ Sqm}$$

@Rs.140.84/Sqm.....Rs. 1,445.

3.1.1.2 : Sides of tie beams, plinth beams,  
grade beams etc .at or below plinth level.

(ii) Using 25mm thick.

$$(2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$$

$$\text{Tie Beam} = 2 \times 55.00 \times 0.30 = 33.00 \text{ Sqm.}$$

@Rs.191.27/Sqm..... Rs. 6,312.0

3.1.1.3 : Columns, pillars, post & strut.

(a) Square, Rectangular, polygonal in plane  
vertical face. (i) Using 25mm thick.

$$\text{Lintel} = (2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$$

$$2 \times 55.00 \times 0.20 = 22.00 \text{ Sqm.}$$

Column up to P.L :

$$1 \times 21 \times 2 \times 3.00 \times 0.20 = 25.20 \text{ Sqm.}$$

$$1 \times 21 \times 2 \times 3.00 \times 0.15 = 18.90 \text{ Sqm}$$

$$\text{Total} = 66.10 \text{ Sqm}$$

@Rs.213.73/Sqm.....Rs.14,128.0

Item No.6/ 2.2.1:Providing and laying plain/reinforcement cement  
concrete works in prop.1:2:4 including dewatering  
if necessary and curing complete etc. for reinforcement  
cement concrete work (Form work and reinforcement  
will be measured and paid separately).

(I) Using mixture machine.

(a) In sub-structure upto plinth level.

Foundation, footing columns, with base tie and  
plinth beam etc.other works not less than 100mm  
thick up to P.L.

(a) M-15 or Prop.1:2:4.

$$\text{Column} : 21 \times 0.80 \times 0.60 \times 0.15 = 1.512 \text{ Cum.}$$

$$21 \times \frac{1}{2}\{(0.80 \times 0.60)+(0.25 \times 0.20)\} \times 0.275 = 1.530 \text{ Cum.}$$

$$21 \times 1.15 \times 0.20 \times 0.25 = 1.208 \text{ Cum.}$$

$$\text{Tie Beam} (2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$$

$$55.00 \times 0.30 \times 0.25 = 4.125 \text{ Cum.}$$

$$\text{Less Column} : 21 \times 0.30 \times 0.25 \times 0.20 = (-) 0.315 \text{ Cum.}$$

$$\text{Total} = 8.060 \text{ Cum.}$$

@Rs.4734.15/Cum.....Rs.38,157.0

(b) In Super-structure from plinth level  
up to 1<sup>st</sup> floor level.

(ii) Columns, pillars, posts, struts etc.  
including preparing the top surface and  
finishing of nosing.

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CONTD. Rs.1,62,572.0

B.F. Rs.1,62,572.0

(a)M-15 or Prop.1:2:4.

Column :  $1 \times 21 \times 3.00 \times 0.20 \times 0.15 = 1.890 \text{ Cum.}$

Lintel :  $(2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$

$55.00 \times 0.15 \times 0.10 = 0.825 \text{ Cum}$

Less Column :

$21 \times 0.20 \times 0.15 \times 0.10 = (-) 0.063 \text{ Cum}$

Top Lintel :  $(2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$

$55.00 \times 0.10 \times 0.10 = 0.550 \text{ Cum}$

Less Column :

$21 \times 0.20 \times 0.10 \times 0.10 = (-) 0.042 \text{ Cum}$

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Total = 3.160 Cum

@Rs.4929.24/Cum.....Rs.15,576.00

Item No.7/4.1.4 : Brick work in cement mortar with 1<sup>st</sup> class brick including racking out joints, and dewatering if necessary and curing complete as directed in sub-structure up to plinth level.

(b) In prop.1:4.

Wall above Tie Beam :

$(2 \times 20.00) + (2 \times 5.00) = 50.00 \text{ Rm.}$

$1 \times 50.00 \times 0.60 \times 0.224 = 6.720 \text{ Cum}$

Less Column:

$21 \times 0.60 \times 0.20 \times 0.224 = (-) 0.564 \text{ Cum.}$

Total = 6.156 Cum.

@Rs.4,632.29/Cum..... Rs.28,516.00

Item No.8/1.3. : 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.

© With silt (predominantly non-plastic) by truck carriage including loading and unloading.

Floor :  $1 \times 19.75 \times 4.75 \times 0.60 = 56.288 \text{ Sqm.}$

@Rs.322.75/Cum..... Rs.18,167.0

Item No.9/4.1.8 : 75mm thick 1<sup>st</sup> class brick nogged wall in cement mortar including racking out joints, and curing complete as directed in super-structure above plinth level up to 1<sup>st</sup> floor level (Protruding rod/ Tor steel of column to be embedded in cement mortar and will be measured and paid separately).

(a)In prop.1:4.

Wall over Lintel & below top Lintel.

$(2 \times 20.00) + (3 \times 5.00) = 55.00 \text{ Rm.}$

$1 \times 55.00 \times 0.55 = 30.25 \text{ Sqm.}$

G. Wall :  $2 \times 2 \times 2.50 \times \frac{1}{2}(0.90+0.10) = 5.00 \text{ Sqm.}$

Less (i) Column:  $21 \times 0.55 \times 0.20 = (-) 2.31 \text{ Sqm}$

Total = 32.94 Sqm.

@Rs.357.54/Sqm.....Rs. 11,777.0

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CO. Rs.2,36,608.0

Item No.10/ 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. cleats, 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.  
50mm M.S. Tube.

King Post : 1 x 10 x 1.00 = 10.00 Rm.

Queen Post : 2 x 10 x 0.60 = 12.00 Rm.

Strut : 2 x 10 x 1.10 = 22.00 Rm.

1 x 10 x 0.60 = 6.00 Rm.

D/Tie : 2 x 10 x 5.20 = 104.00 Rm.

Rafter : 2 x 10 x 3.30 = 66.00 Rm.

Total = 220.00 Rm.

@3.87 Kg./Rm.....= 851.40 Kg.

Purlin 40mm dia Tube:

2 x 5 x 21.40 = 214.00 Rm.

@2.87 Kg./Rm.....= 614.18 Kg.

M.S.base plate : 2 x 10 x 3.00 Kg. = 60.00 Kg.

Total = 1525.58 Kg.

Say 15.26 Qtls.

@Rs.7,126.00/Qtl.....Rs.1,08,743.0

Item No.11/ 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 1.6mm thick limpet washer complete excluding cost of roof truss, purlins etc. (Roof trusses and purlin etc. to be measured and paid separately).

(e) 0.63mm thick.

2 x 21.50 x 3.35 = 144.05 Sqm.

@Rs. 425.09/Sqm.....Rs.61,234.0

Item No.12/8.1.4 : Providing galvd. Iron ridging of TATA SHAKTEE/SAIL including supplying and fixing necessary galvd. Screw/ washers etc. complete as directed.

(e) 0.63mm thick (ii) 230mm lapping.

1 x 21.50 = 21.50 Rm..

@Rs.148.88/Rm.....Rs. 3,201.0

CON. Rs.4,09,786.0

B.F. Rs.4,09,786.

Item No.13/6 2.1: 10mm thick cement plaster in single coat on fair/rough side of walls for interior plastering up to 1<sup>st</sup> floor level including arises etc. including curing complete as directed.  
(b) In prop.1:4.

Plinth wall :  $2 \times 20.25 = 40.50$  Rm.

$2 \times 5.25 = 10.50$  Rm.

Total =  $51.00$  Rm.  $\times 0.50 = 25.50$  Sqm

Column :  $1 \times 21 \times (0.20+0.15) \times 2 \times 2.20 = 32.34$  Sqm.

Wall over Lintel & below top Lintel.

$(2 \times 20.00) + (3 \times 5.00) = 55.00$  Rm.

$1 \times 2 \times 55.00 \times 0.80 = 88.00$  Sqm.

G. Wall :  $2 \times 2 \times 2 \times 2.50 \times \frac{1}{2}(0.90+0.10) = 10.00$  Sqm.

Total =  $155.84$  Sqm.

@Rs.88.60/Sqm.....Rs. 13,807.

Item No.14/5.1.4 : 65mm thick cement concrete floor consisting of 50mm under layer of cement in prop.1:3:6 and 15mm thick wearing layer in cement concrete in prop.1:1:2 etc. including curing etc. complete as directed.

Floor :  $1 \times 20.00 \times 5.00 = 100.00$  Sqm

@Rs.449.48/Sqm.....Rs.44,948.00

Item No.15/9.4.1: Providing barge board of size 200mm x 20mm with 1<sup>st</sup> class local Hollock/ Bonsum timber including fitting and fixing with necessary wood screws etc. complete

$1 \times (2 \times 21.40) + (2 \times 2 \times 3.30) = 56.00$  Rm.

@Rs.224.81/Rm.....Rs. 12,589

Item No. 16 / 7.1.5 : Providing single layer bamboo mat ceiling with lattice pattern jaffri or mesh size 40mm x 40mm made out of bamboo slips of size 5mm x 2mm size at bottom stiffened with bamboo slip of 25mm x 5mm size (Ceiling joist to be measured and paid separately).

Ceiling :  $1 \times 19.80 \times 4.80 = 95.04$  Sqm

@Rs,124.06/Sqm.....Rs. 11,791

Item No.17/13.2.2 (f): Distemping with dry distemper of approved brand and manufacture (Two coats) and required shade on new wall surface to give an even shade over and including a priming coat of white primer after thoroughly brushing the surface including preparing surface even and sand papered smooth.

Plinth wall :  $2 \times 20.25 = 40.50$  Rm.

$2 \times 5.25 = 10.50$  Rm.

Total =  $51.00$  Rm.  $\times 0.50 = 25.50$  Sqm

Column :  $1 \times 21 \times (0.20+0.15) \times 2 \times 2.20 = 32.34$  Sqm.

Wall over Lintel & below top Lintel.

$(2 \times 20.00) + (3 \times 5.00) = 55.00$  Rm.

$1 \times 2 \times 55.00 \times 0.80 = 88.00$  Sqm.

G. Wall :  $2 \times 2 \times 2 \times 2.50 \times \frac{1}{2}(0.90+0.10) = 10.00$  Sqm.

Total =  $155.84$  Sqm.

@Rs.62.42/Sqm.....Rs. 9,728.00

CON. Rs.5,02,649.00

B.F. Rs.5,02,649.

Item No.18/14..3.3.: Applying two coats of wood preservative on wood and wood based surfaces including preparing the surface by thoroughly cleaning oil, grease dirt and other foreign matter, sand papering and knotting.  
(a) With kiricide oil.

Ceiling :  $1 \times 2 \times 19.80 \times 4.80 = 190.08$  Sqm

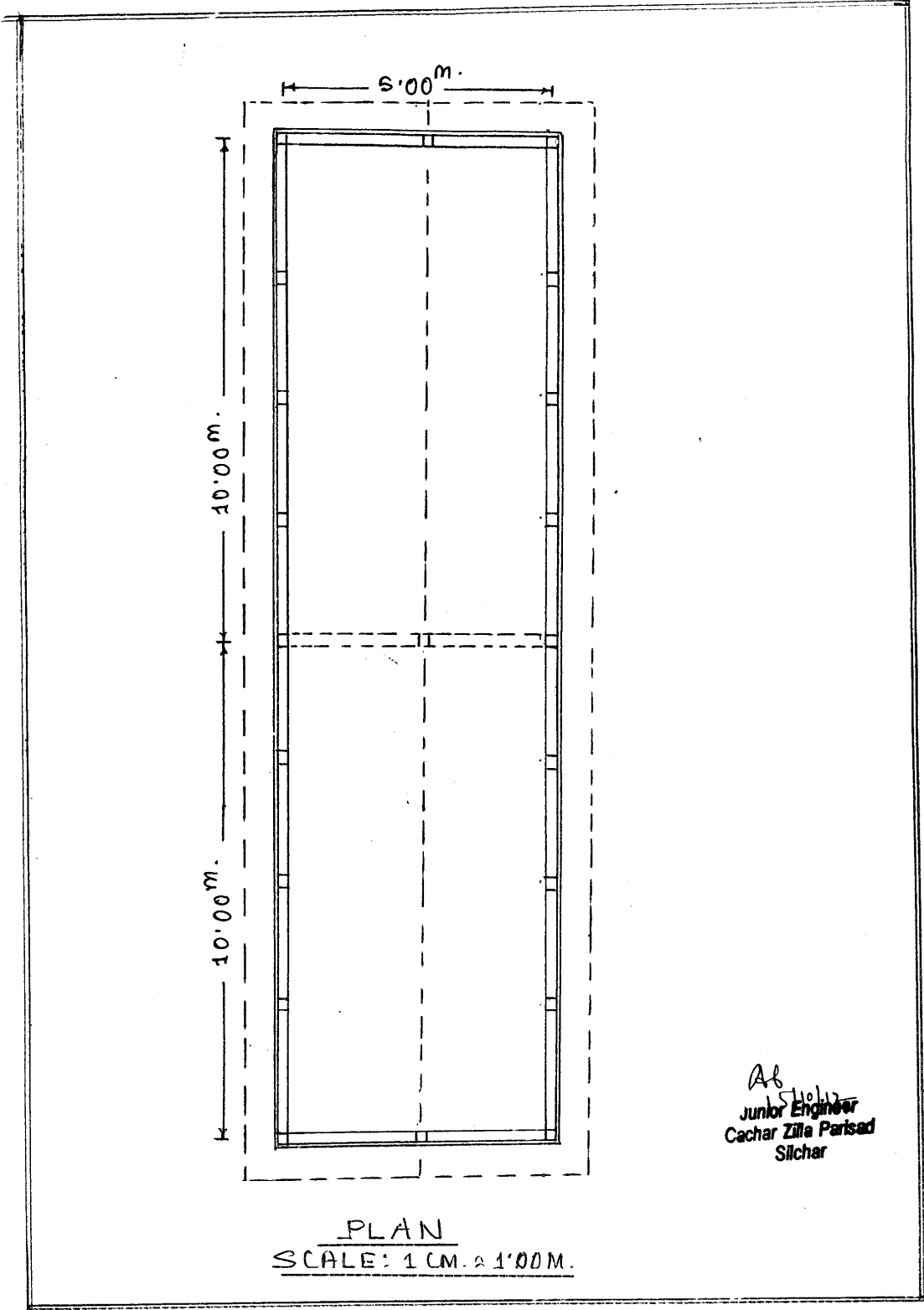
@Rs.19.72/Sqm.....Rs. 3,748.00

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*Total = Rs.5,06,397.0*

*Say Rs.5,06,400.0*

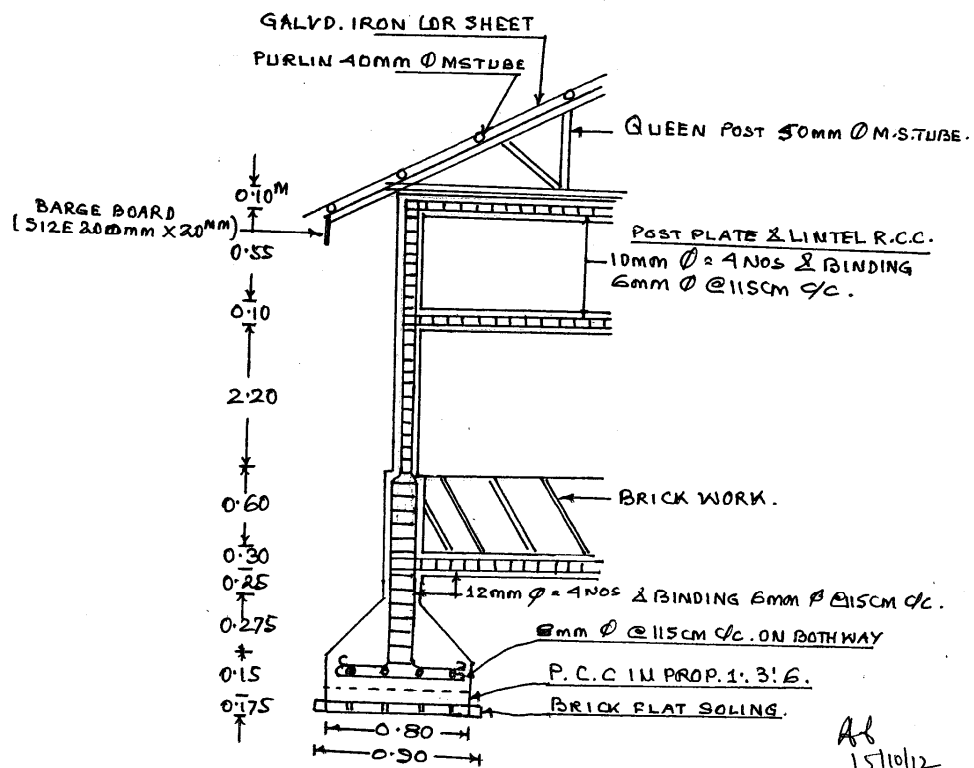
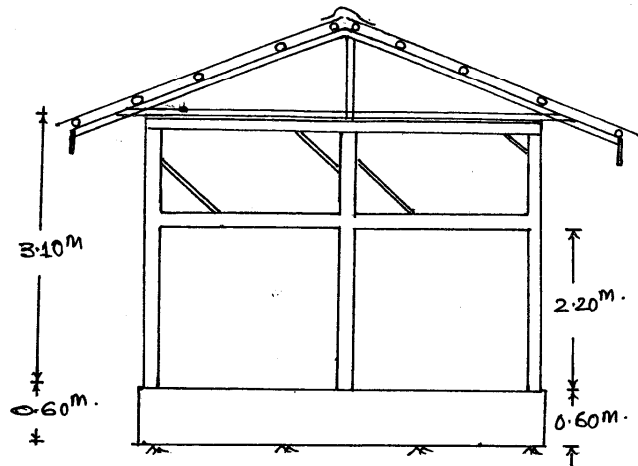
*(Rupees Five Lakhs Six thousand  
& Four hundred) only*

*AB*  
15/10/12  
Junior Engineer,  
Cachar Zilla Parishad, Silchar.



As  
Junior Engineer  
Cachar Zilla Parishad  
Silchar

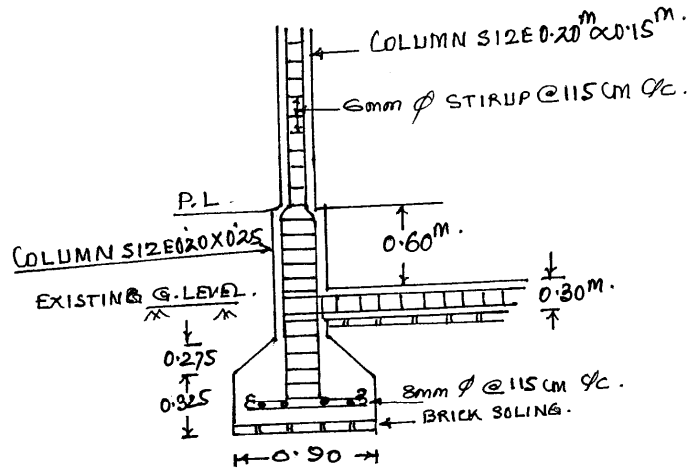
PLAN  
SCALE: 1 CM. = 1'00M.



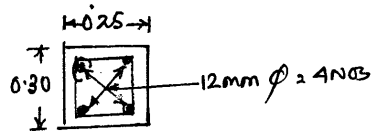
(CROSS SECTION OF COLUMN & TIE BEAM ETC.)  
(NOT TO SCALE)

Ab  
15/10/12  
Junior Engineer  
Cachar Zilla Parishad  
Silchar

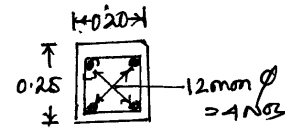




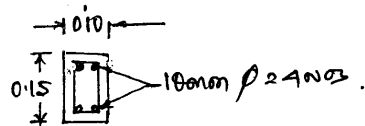
CROSS-SECTION OF COLUMN.



C/S OF TIE BEAM.



C/S OF COLUMN.



C/S OF LINTEL.

AB  
 15/10/12  
 Junior Engineer  
 Cachar Zilla Parishad  
 Sivasar

ESTIMATE

Name of work : Construction of Market Shed in various places of Cachar District under Cachar Zilla Parishad, Silchar under T.F.C. Scheme for the year 2012-13.

Item of work : As per Schedule of rates for P.W.D. Building (Civil works) for all Divisions under Assam P.W.D. 2010-11 which is current in the State of Assam.

Item No.1/30.1 : Construction of sub-grade and earthen shoulders with approved materials obtained from borrow pits with all lifts & leads, transporting to site, spreading grading to required slope and compacting to meet requirement of table 300-2 (including compensation of earth) (including cost of testing of materials at site and laboratory as directed by the Deptt.)

(a) From Private land .

$$1 \times 2 \times 2 \times 8.85 \times 2.50 \times 0.20 = 17.70 \text{ Cum.}$$

$$1 \times 2 \times 11.85 \times 2.50 \times 0.20 = 11.85 \text{ Cum.}$$

$$2 \times 21.85 \times 2.50 \times 0.20 = 21.85 \text{ Cum.}$$

$$\text{Total} = 51.40 \text{ Cum.}$$

@Rs.201.00/Cum.....Rs. 10,331.60

Item No.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 panel after preparing the sub-grade as directed including all labour and materials and if necessary dewatering , complete.

(a) Brick on flat soling.

$$1 \times 2 \times 2 \times 8.85 \times 2.50 = 88.50 \text{ Sqm.}$$

$$1 \times 2 \times 11.85 \times 2.50 = 59.25 \text{ Sqm.}$$

$$2 \times 21.85 \times 2.50 = 109.25 \text{ Sqm.}$$

$$\text{Total} = 257.00 \text{ Sqm}$$

@Rs.286.37/Sqm.....Rs.73,597.00

Item No.3/2.1.1: Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, bricks 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

CON. Rs.83,928.00

$$1 \times 2 \times 2 \times 8.85 \times 2.50 \times 0.10 = 8.85 \text{ Cum.}$$

$$1 \times 2 \times 11.85 \times 2.50 \times 0.10 = 5.93 \text{ Cum.}$$

$$2 \times 21.85 \times 2.50 \times 0.10 = 10.93 \text{ Cum.}$$

$$\text{Total} = 25.71 \text{ Cum.}$$

@Rs.3733.63/Cum..... Rs. 95,992.00

Item No.31/19.2 : Providing plinth protection with bricks flat laid in cement mortar 1:4 and finished with 15mm thick cement plaster in prop.1:2 with a floating coat of neat cement finish.

$$1 \times (2 \times 3 \times 21.00) + (2 \times 3 \times 5.25) + (2 \times 2 \times 11.25) + (2 \times 2 \times 5.25) \times 0.50 = 111.75 \text{ Sqm.}$$

@Rs.458.06/Sqm.....Rs. 51,188.00

Item No.32/19.4 : Providing drain with cement concrete (1:3:6) 10cm thick sides 10cm thick bed over brick flat soling including 15mm thick cement slurry as directed with necessary etc. refilling the sides after completion of work etc. as specified.

(i) 300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.

$$1 \times (2 \times 3 \times 21.00) + (1 \times 3.00) + (2 \times 2 \times 11.25) + (2 \times 2 \times 5.25) = 195.00 \text{ Rm.}$$

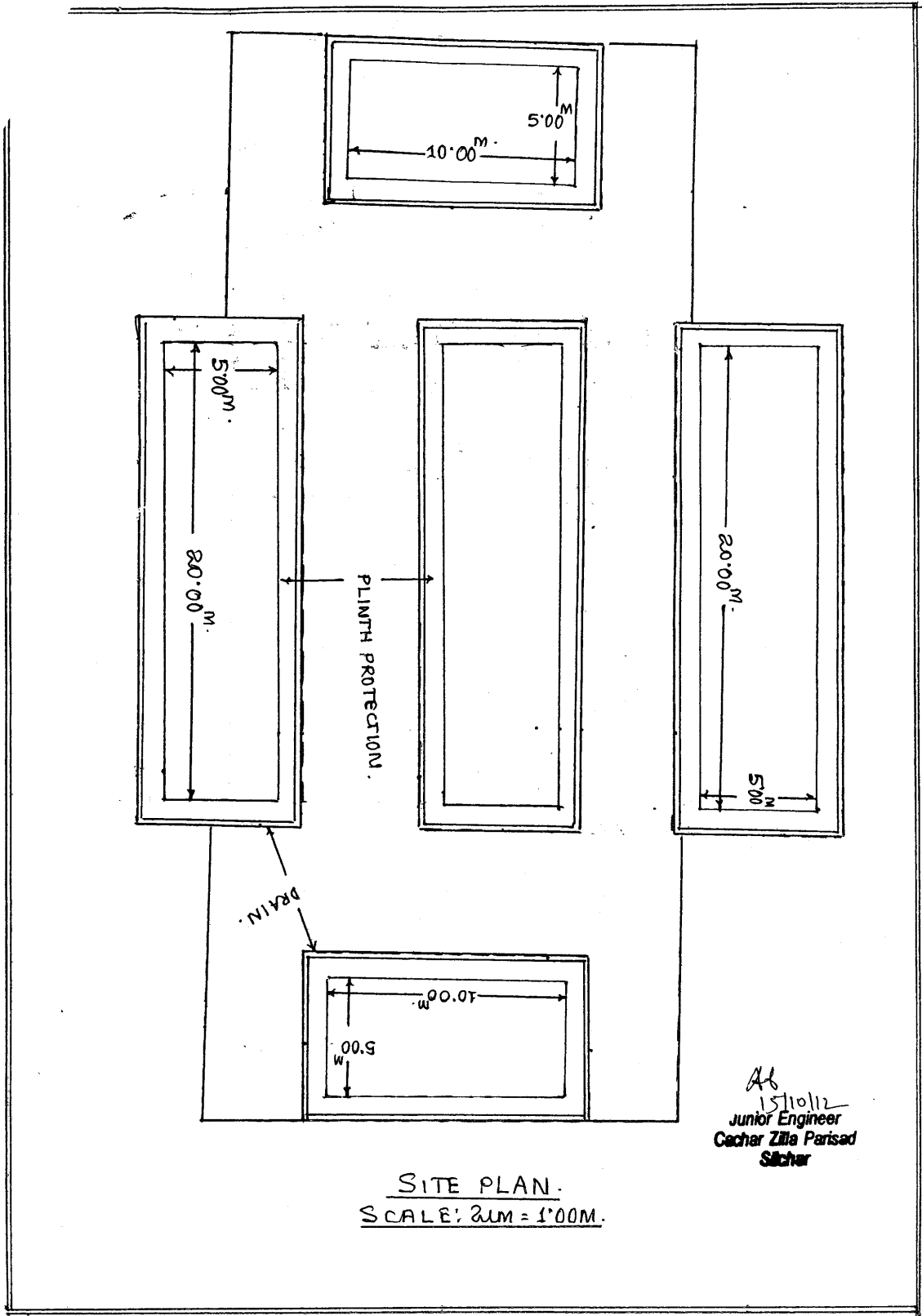
@Rs.669.98/Rm.....Rs. 1,30,646.00

Total = Rs.3,61,754.00

Say Rs.3,61,800.00

(Rupees Three Lakhs Sixty one thousand & Eight hundred) only

AB  
15/10/12  
Junior Engineer,  
Cachar Zilla Parishad, Silchar.



SITE PLAN.  
SCALE: 2UM = 1'00M.

As  
 15/10/12  
 Junior Engineer  
 Gechar Zilla Parisad  
 Sitcher