RAISED GL

ORIGINAL GL

1050

300

ELEVATION DETAILS OF BOUNDARY/RETAINING WALL

ANCHOR TIE 150MM X 150 MM

ANCHOR WIEGHT 300MM X 300 MM

3000   3000   200

30000

PLAN DETAILS OF BOUNDARY/RETAINING WALL

250

1350

4 NOS. OF 12 MM BAR
WITH 6 MM STIRRUPS
@125 MM C/C

1200

75MM THICK PCC(1:4:8)

FLAT BRICK SOLING

750

1000

C/S DETAILS OF POST

NOTES
1. ALL DIMENSINS SHOWN ARE IN MM UNLESS MENTIONED OTHERWISE.
2. THE DRAWING SHALL BE READ, NOT TO BE SCALED.
3. DISCREPENCY IF ANY SHOULD BE BROUGHT TO THE NOTICE OF THE PLANNER/DESIGNER BEFORE EXECUTION.

PLAN, ELEVATION AND C/S ELEVATION OF PROPOSED BOUNDARY/
RETAINING WALL OF BIRANGONA AGRO PROCESSING CLUSTER AT
BOITAMARI, BONGAIGAON

PRESIDENT'S/ SECRETARY'SSIGN

Sl No.	Item No.	Particulars							Unit	Quantity	Rate (Rs/unit)	Amount (Rs)
		Analysis of rate for Boundary wall of Birangana Agro Processing Cluster at Boitamari, Bongaigaon under , based on APWD (B) 2013-2014 Schedule										
1	1.1	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) Up to a depth of 2.00m below the existing ground level.										
		(a) In ordinary soil										
		Footing type F1	13 x	1.00 x	1.00 x	1.20	=	15.6				
					Total		=	**15.60**	Cum	15.600		
2	4.1.1	Providing **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.										
		Beneath the footing										
		Footing type F1		13 x	1.00 x	1.00	=	13.000				
		Beneath the tie beam										
		TB1		1 x	27.40 x	0.40	=	10.960				
					Total		=	**23.960**	Sqm	23.960		
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).										
		(b) In prop 1cement: 4 sand :8 coarse aggregate by volume										
		Beneath the footing										
		Footing type F1	13 x	1.00 x	1.00 x	0.075	=	0.975				
		Beneath the tie beam										
		TB1	3 x	27.40 x	0.40	0.075	=	2.466				
					Total		=	**3.441**	Cum	3.441		
4	2.2.1	Providing and laying plain / reinforced cement conc. work in prop. (1:1.5:3 -M20) 1 cement: 1.5 coarse sand:3graded stone aggregate 20 mm down .... etc (I) Using mixture machine (A) In sub structure up to plinth level Foundation, footing, columns with base, tie and plinth beamn etc										

		(b) M20 or prop.1:1.5:3										
		Footing type F1										
		Footing base	13 x	0.75 x	0.75 x	0.20	=	1.463				
		Straight portion	13 x	0.25 x	0.25 x	2.200	=	1.788				
		Tie beam										
		TB1	1 x	27.40 x	0.25	0.300	=	2.055				
		Anchor Tie	4 x	0.15 x	0.15	2.000	=	0.180				
		Anchor weight	4 x	0.30 x	0.30	0.300	=	0.108				
						Total	=	**5.593**	Cum	5.593		
5	3.1.1	Providing form work of ordinary timber plank so as to give rough finish including centering,										
6	3.1.1.1	Foundation, footings, bases of column, pile cap, raft and mass concrete works etc.using 25 mm										
		Footing										
		Footing type F1										
		Footing base	13 x	4 x	0.75 x	0.20	=	7.800				
		Straight portion	13 x	4 x	0.25 x	2.200	=	28.600				
						Total	=	**36.400**	Sqm	36.400		
7	3.1.1.2	Sides of tie beams, grade beams etc. at or below ground level.										
		Tie beam										
		TB1	1 x	2 x	27.40 x	0.300	=	16.440				
		Anchor	4 x	1 x	0.45	2.000	=	3.600				
						Total	=	**20.040**	Sqm	20.040		
8	4.1.4	Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed.										
		(I) In Sub-structure upto plinth level including dewatering if necessary										
		(b) In proportion 1:4.										
		Wall	1 x	26.75 x	1.05 x	0.230	=	6.460				
						Total	=	**6.460**	Cum	6.460		
14	18.1.1	Supplying, fitting and fixing in position r/f bars conforming to relevant IS Code for RCC works/ RB 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 (up to 1st floor level)										
		(a) From Primary Producer TATA/SAIL/Jindal/Shyam/RINL										
		(ii)Super Ductile (SD) TMT reinforcement bars										
		Footing jali: 8 mm bar @150 mm c/c										

	Nos.	Nos.	Length	Wt (kg/m)		Wt.					
Footing type F1	13 x	5 x	0.75 x	0.39	=	0.190					
Column Group A main bar -4 nos 12 mm bar & 6mm ties @125 mm ave.spacing c/c											
Column vertical	13 x	4 x	2.70 x	0.89	=	1.250					
Stirrups 6 mm av. @125 mm c/c- total length of column= 2.15 m											
Total stirrups=18	13 x	18 x	0.79 x	0.220	=	0.406					
TIE BEAM											
4 Nos. of 12 mm bar	1 x	4 x	30.50 x	0.89	=	1.086					
Lapping	4 x	2 x	0.60 x	0.89	=	0.043					
Stirrups 6 mm av. @125 mm c/c- total length of Tie Beam beam= 27.4 m											
Total stirrups=232		232 x	1.00 x	0.220	=	0.510					
Anchor											
4 Nos. of 8 mm bar	4 x	4 x	2.50 x	0.39	=	0.156					
Stirrups 6 mm av. @150 mm c/c- total length of Anchor = 8 m											
Total stirrups=56		56 x	0.51 x	0.220	=	0.063					
				TOTAL	=	**3.703**	Qtl				
A.								**TOTAL**	=		
							Add 7% agiainst GST (on A)		=		
B.								**Sub-total**	=		
C.							Add 1% for contingency charge (on B)		=		
D.								**GRAND TOTAL(B+C)**	=		
							Therefore cost of wall per m length:		=		

Sl No.	Particulars		Unit	Quantity	Rate(Rs/unit) (ANNEX I)	Amount(Rs)
	Detail estimate for Boundary/ Retaining Wall of BIRANGANA AGRO PROCESSING CLUSTER at Boitamari, Bongaigaon, based on APWD (B) 2013-2014 Schedule					
1	Constuction of 230 mm thick brick boundary/retaining wall up to GL of height 1.05 m supported on isolated footing of size 750 mm x 750 mm and tie beam of size 250 mm x 300 mm reinforced with 4 nos. of 12 mm bar and with column of 250 mm x 250 mm reinforced with 4 nos. 12 mm dia bar and Anchor size of 450 mm x 450 mm and anhor tie of size 150 mm x 150 mm.					
	Length of bondary wall in N-S direction=	89.000				
	Length of bondary wall in E-W direction=	15.200				
	Total =	**104.200**	RM	104.200		
	A.			**TOTAL**	**=**	
						Say,
	In words (Rupees ………………………………………………………………. Only)					