

Sub Est. No. 7

Construction of RCC Staging 4.0M x 3.0M x 8.0M High

S.N.	Particulars	Quantity	Unit	Rate	Amount
1A 2.8.1	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil In foundation				
	4 1.95 1.95 1.35 =	20.53			
	2 2.30 0.25 0.25 =	0.29			
	2 1.30 0.25 0.25 =	0.16			
	1 1.00 1.00 0.575 =	0.58			
	1 1.20 0.90 0.275 =	0.30			
		21.86	21.86 M	P/M	Rs.230.50
					Rs.5,037.69
1B 2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead	10.27	M	P/M	Rs.74.50
					Rs.764.87
2- 2.28	Providing clean coarse sand filling in foundation trenches or in plinth including ramming & watering as per specification & direction of E/I including cost of materials taxes & royalty.				
	Steps				
	1 1.20 0.90 0.10 =	0.108			
	In Foundation of column				
	4 1.95 1.95 0.10 =	1.521			
	In Ladder fixing block at GL				
	1 1 1 0.10 =	0.100			
	Under Tie beam at G.L.				
	2 3.95 0.25 0.10 =	0.198			
	2 2.95 0.25 0.10 =	0.148			
	In Plinth				
	1 4.00 3.00 0.28 =	3.360			
		5.434	5.434 M ³	P/M ³	Rs.204.40
					Rs.1,110.71
3- 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.				
	Steps				
	1 1.20 0.90 =	1.08			
	In Foundation of column				
	4 1.95 1.95 =	15.21			
	In Ladder fixing block at GL				
	1 1.00 1.00 =	1			
	Under Tie beam at G.L.				
	2 3.95 0.25 =	1.975			
	2 2.95 0.25 =	1.475			
	In Plinth				
	1 4.00 3.00 =	12.00			
		32.74	32.74 M ²	P/M ²	Rs.253.80
					Rs.8,309.41
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering all work up to plinth				

S.N.	Particulars					Quantity	Unit	Rate	Amount	
	1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 40mm nominal size) (M15)									
	Steps									
	1	1.20	0.90	0.10	=	0.11				
	In Foundation of column									
	4	1.95	1.95	0.075	=	1.14				
	In Ladder fixing block at G.L.									
	1	1.00	1.00	0.40	=	0.40				
	Under Tie beam at G.L.									
	2	3.95	0.25	0.10	=	0.20				
	2	2.95	0.25	0.10	=	0.15				
	In Plinth									
	1	4.00	3.00	0.10	=	1.20				
						3.19	3.194 M ³	P/M ³	Rs.3,850.50	Rs.12,297.53
4 A- 5.1.2	Providing and laying in position reinforced cement concrete of specified grade excluding the cost of centring and shuttering all work up to plinth									
	1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)									
	No	Length	Width	Height (av.)	Sub Qty.					
	In foundation									
	4	1.80	1.80	0.30	=	3.888				
	4	0.45	0.45	0.15	=	0.1215				
	4	0.30	0.30	0.65	=	0.234				
	In Tie beam at G.L.									
	2	3.95	0.25	0.35	=	0.691				
	2	2.95	0.25	0.35	=	0.516				
						5.451	5.451 M ³	P/M ³	Rs.4,530.30	Rs.24,694.67
4 B- 5.9.5	Centring and shuttering including strutting, propping etc. and removal of form for:									
	Lintels, beams, plinth beams etc.									
	In foundation									
	16.0	1.8	0.30		=	8.64				
	16.0	0.45	0.15		=	1.08				
	16.0	0.30	0.65		=	3.12				
	In Tie beam at G.L.									
	4	3.95	0.35		=	5.53				
	4	2.95	0.35		=	4.13				
						22.500	22 500 M ²	P/M ²	Rs.261.70	Rs.5,888.25
5- 6.1.14 A	Providing designation 100A brick work in C.M. (1:6) in foundation & plinth with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10 mm thick mortar joints, cost of screening materials, racking out joints to 15 mm depth curing taxes & reality all complete as per specification & direction of E/I.									
	Brick work with bricks of class designation 100A in plinth in:									
	Cement mortar 1:6 (1 Cement : 6 Sand)									
	No	Length	Width	Height (av.)	Sub Qty.					
	Long Wall									
	2	3.95	0.25	0.150	=	0.296				
	Short Wall									

S.N.	Particulars					Quantity	Unit	Rate	Amount
2	2.95	0.25	0.150	=	0.221				
In steps									
1	1.2	0.90	0.15	=	0.162				
1	1.2	0.60	0.15	=	0.108				
1	1.2	0.30	0.15	=	0.054				
					0.842	0.842 M ³	P/M ³	Rs.4,490.60	Rs.3,778.84
6 A-	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering all work up to plinth								
5.1.2	1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)								
In Column up to PL									
4	0.30	0.30	0.45	=	0.162				
In band at plinth									
2	3.95	0.25	0.075	=	0.148				
2	2.95	0.25	0.075	=	0.111				
					0.421	0.421 M ³	P/M ³	Rs.4,530.30	Rs.1,906.12
6B	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufacturers.								
4.12	(In band at Plinth)								
					107 Kg.	per 50 kg cement		Rs.46.58	Rs.99.68
6 C-	Centering and shuttering including strutting, propping etc. and removal of form for:								
5.9.5	Lintels, beams, plinth beams etc.								
In Column up to PL									
16	0.3	0.45		=	2.160				
In band at plinth									
4	3.95	0.075		=	1.185				
4	2.95	0.075		=	0.885				
					4.230	4.230 M ²	P/M ²	Rs.261.70	Rs.1,106.99
7 A-	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, plinth and string courses, pillars, piers, abutments, posts and struts etc. up to five floor level excluding the costs of centering, shuttering, finishing and reinforcement.								
5.2.2	1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)								
	No	Length	Width	Height (av.)	Sub Qty.				
In band at Lintels level									
2	1.5	0.25	0.10	=	0.075				
In beam B1, B2									
2	4.50	0.25	0.20	=	0.450				
2	3.00	0.25	0.20	=	0.300				
In beam B3, B4									
2	4.50	0.25	0.30	=	0.675				
2	3.00	0.25	0.30	=	0.450				
In beam B5, B6									
2	5.00	0.25	0.25	=	0.625				
2	3.00	0.25	0.25	=	0.375				
In Column from PL to Roof level									
4	0.3	0.3	8.00	=	2.880				
For parapet post									
8	0.125	0.125	0.85	=	0.106				

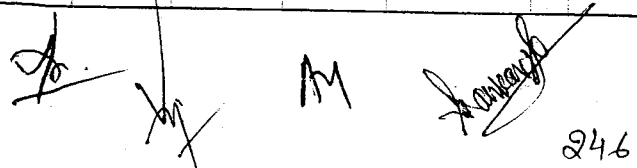
S.N.	Particulars					Quantity	Unit	Rate	Amount	
						5.936	5.936 M ³	P/M ³	Rs.5,139.70	Rs.30,510.54
7 B- 5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for:									
	Lintels, beams, plinth beams etc.									
	In Column up to Roof level									
	16	0.3	8.00	=	38.400					
	In beams									
	4	4.00	0.20	=	3.200					
	4	3.00	0.20	=	2.400					
	6	4.50	0.30	=	8.100					
	6	3.50	0.30	=	6.300					
	6	5.00	0.25	=	7.500					
	6	3.50	0.25	=	5.250					
	In band at lintel									
	4	1.50	0.10	=	0.600					
	For parapet post									
	32	0.125	0.85	=	3.400					
					75.150	75.150 M ²	P/M ²	Rs.261.70	Rs.19,666.76	
8 A- 5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).									
	No	Length	Width	Height (av.)	Sub Qty.					
	Chajja									
	2	1.10	0.45	0.063	= 0.062					
	In shelves									
	4	1.05	0.45	0.063	= 0.119					
					0.181	0.181 M ³	P/M ³	Rs.4,671.80	Rs.847.65	
8 B- 5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for:									
	Chajja									
	2	1.10	0.450	=	0.990					
	2	1.10	0.500	=	1.100					
	4	0.45	0.063	=	0.113					
					2.203	2.203 M ²	P/M ²	Rs.291.00	Rs.641.19	
9- 6.1.14 A + 6.3A	Brick work with bricks of class designation 100A in foundation and plinth in:									
	Cement mortar 1:6 (1 Cement : 6 Sand)									
	Extra for brick work in superstructure above plinth upto V floor									
	2	3.95	0.25	2.70	= 5.333					
	2	2.95	0.25	2.70	= 3.983					
	In shelves									
	2	0.20	0.125	2.10	= 0.105					
	Deduction									
	For door									
	1	0.90	0.25	2.10	= 0.473					
	For window									
	1	0.90	0.25	1.20	= 0.270					
	Total deduction								Rs.4,490.60	
									Rs.513.30	
	Net Quantity					8.678	8.678 M ³	P/M ³	Rs.5,003.90	Rs.43,421.34

272

S.N.	Particulars					Quantity	Unit	Rate	Amount	
10 A- 5.2.2	Providing R.C.C. M-200 with nominal mix of (1:1.5:3) in roof slab									
	No	Length	Width	Height (av.)	Sub Qty.					
	Roof Slab									
	1	5.00	3.50	0.15	= 2.625					
	1	4.70	3.70	0.10	= 1.739					
	Landing									
	3	0.60	0.60	0.15	= 0.162					
					4.526	4.526 M ³	P/M ³	Rs.5,139.70	Rs.23,262.28	
10 B- 5.9.3	Centring and shuttering including struting, propping etc. and removal of form for:									
	In Roof slab									
	No	Length	Width	Height (av.)	Sub Qty.					
	1	4.5	3.00		= 13.500					
	1	4.2	3.20		= 13.440					
	2	5.00	0.15		= 1.500					
	2	3.50	0.15		= 1.050					
	2	4.70	0.10		= 0.940					
	2	3.70	0.10		= 0.740					
	3	0.60	0.60		= 1.080					
	3	0.60	0.15		= 0.270					
	6	0.60	0.15		= 0.540					
					33.060	33.060 M ²	P/M ²	Rs.291.00	Rs.9,620.46	
11- 5.22.7 A	Reinforcement for RCC work including straghtening, cutting, bending & placing in position and binding all complete.									
	6 mm to 16 mm tor steel									
	Total Reinforcement.									
	@1.60% of Vol. Of Concrete (Kg/cuM)					= 2074.34	Kg.	P/Kg.	Rs.56.00	Rs.1,16,163.00
12-A 10.7.1	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.									
	Door D	1	0.9	2.1	= 1.890					
	Window	1	0.9	1.2	= 1.080					
					2.970	2.970 M ³	P/M ³	Rs.2,503.00	Rs.7,433.91	
12-B 9.48.1	Providing and fixing the M.S. grill of required pattern in frames of windows etc. with M.S. flat. Square or round bars etc. all complete									
	fixed to steel windows by welding.									
	No	Length	Width	Height (av.)	Sub Qty.					
	For windows									
	1	1.20	x	0.90	= 1.08 M ²					
					@ 25 Kg/M ²					
					27.00	27.00 Kg.	P/Kg.	Rs.86.00	Rs.2,322.00	
13- 5.18.3	Providing precast cement concrete jali 1:2:4 reinforced with 1.6mm mild steel wire including roughening, cleaning, fixing and finishing in cement mortar 1:3 etc. all complete excluding plastering of the jambs sills & soffits.									
	25mm thick									

S.N.	Particulars					Quantity	Unit	Rate	Amount
	No	Length	Width	Height (av.)	Sub Qty.				
	2	0.45		0.45	= 0.405	0.405 M ²	P/M ²	Rs.463.40	Rs.187.68
14-A	Providing 6 mm thick cement plaster to ceiling of mix								
13.24	1:4								
2	No	Length	Width	Height (av.)	Sub Qty.				
	1	4.50	3.00		= 13.50				
	1	4.20	3.20		= 13.44				
	2	5.00	0.15		= 0.75				
	2	3.50	0.15		= 0.53				
	2	4.70	0.10		= 0.47				
	2	3.70	0.10		= 0.37				
	3	0.60	0.60		= 0.36				
	9	0.60	0.15		= 0.09				
					29.51	29.51 M ²	P/M ²	Rs.87.40	Rs.2,578.74
14-B	12mm Cment plaster in coarse sand								
13.11.	1:6 (1cement : 6 Coarse Sand)								
4	No	Length	Width	Height (av.)	Sub Qty.				
	In side								
	2	4.00		2.68	= 21.440				
	2	3.00		2.68	= 16.080				
	2	2.10		0.25	= 1.050				
	2	1.20		0.25	= 0.600				
	3	0.90		0.25	= 0.675				
	Outside								
	2	4.50		3.00	= 27.000				
	2	3.50		3.00	= 21.000				
	Chajja								
	2	1.10		0.450	= 0.990				
	1	1.10		0.500	= 0.550				
	2	0.45		0.063	= 0.057				
	In Column								
	16	0.3		5.00	= 24.000				
	In beams								
	4	4.00		0.20	= 3.200				
	4	4.00		0.25	= 4.000				
	4	3.00		0.20	= 2.400				
	4	3.00		0.25	= 3.000				
	6	4.50		0.25	= 6.750				
	6	3.00		0.25	= 4.500				
	In steps								
	1	0.90		0.15	= 0.135				
	1	0.60		0.15	= 0.090				
	1	0.30		0.15	= 0.045				
					137.562				
	Deduction								
	Door & Winsow								
	1	0.90		2.10	= 1.890				
	1	0.90		1.20	= 1.080				
					2.970				
					134.592	134.592 M ²	P/M ²	Rs.101.20	Rs.13,620.68
14C-	Providing 12mm cement plaster (1:6) including								
13.11.	providing 1.5mm neat cement punning								
4 +	No	Length	Width	Height (av.)	Sub Qty.				
13.26	In Dado								

S.N.	Particulars				Quantity	Unit	Rate	Amount	
	2	4.00	0.22	=	1.760				
	2	3.00	0.22	=	1.320				
	In floors								
	1	4.0	3.0	=	12.000				
	In steps								
	1	0.90	0.15	=	0.135				
	1	0.60	0.15	=	0.090				
	1	0.30	0.15	=	0.045				
	Outside pinth								
	2	4.50	0.45	=	4.050				
	2	3.50	0.45	=	3.150				
					22.550	22.550 M ²	P/M ²	Rs.101.20	
								Rs.32.30	
								Rs.133.50	
								Rs.3,010.43	
16- 13.79 1	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade								
	New work (three or more coats)				164.10	M ²	M ²	Rs.63.20	Rs.10,370.91
17- 13.81 3 + 13.82 1	Applying priming coat & painting with ready mixed paint of approved brand and manufacture in all sheds to give an even shade								
	with ready mixed zinc chromate yellow primer of app. Brand on new steel work (two or more coats)								
	In Door								
	1	2.25	0.90	=	4.253				
	In windows								
	1	2.25	0.90	=	2.430				
	In Grill								
					1.080			Rs.22.80	
								Rs.63.60	
					7.763	7.76 M ²	M ²	Rs.86.40	Rs.670.68
21 10.3	Structural steel work riveted or bolted in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved ateeff primer all complete.								
	Providing MS ladder 50mm x 50mm x 6mm.								
	24M + 23 x 0.50M=35.5M @ 4.502kg/M=				159.82	Kg.	P/Kg.	Rs.69.20	Rs.11,059.61
22	Providing railing at the top with 25mm GI pipe.				51.00	Mtr	P/Mtr	Rs.269.20	Rs.13,729.20
23	Providing necessary arrangement for proper fixation of P.V.C. Tank for lateral stability against wind pressure force.							LS	Rs.2,000.00
24	Carriage of the following materials from quarry to work site including loading, unloading and staking at work site as per specification & direction of E/I.								
	Bricks (7 Km. Pucca & 1 Km. Kachha lead)				4935	Nos.	%0 nos.	Rs.606.10	Rs.2,991.10
	Coarse Sand (100 Km. lead)				14.46	M ³	P/M ³	Rs.1,221.09	Rs.17,656.96
	Stone chips (150Km. Pucca lead)				17.13	M ³	P/M ³	Rs.1,746.29	Rs.29,913.95
	Local Sand (2 Km. Pucca + 1 Km. Kachha lead)				5.93	M ³	P/M ³	Rs.217.23	Rs.1,288.17
									Rs.4,27,962.02
							Say		Rs.4,28,000.00



 246

1) Cost of estimate of R.C.C. structure
(8.0 m height) -

R. 4,25,000 = 00

2) Cost of 10,000 lit. Pvc water tank
@ 6.60/lit 9 spec S.O.R of B.C.D.

R. 66,000 = 00

R. 4,94,000 = 00

Add:-

1) Carriage cost of material for different
O.C.B @ 5% (L.S) -

R. 24,700 = 00

2) Cost of extra pipe, valve (inlet socket)
from overhead tank @ 5% (L.S) -

R. 24,700 = 00

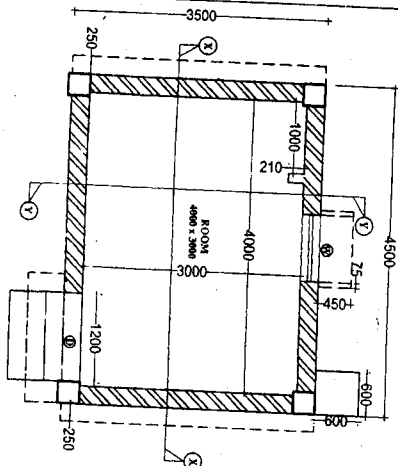
TOTAL - 5,43,400 = 00

Technically approved for Rs 543,400 = 00 (Five lacs forty
three thousand four hundred) only.

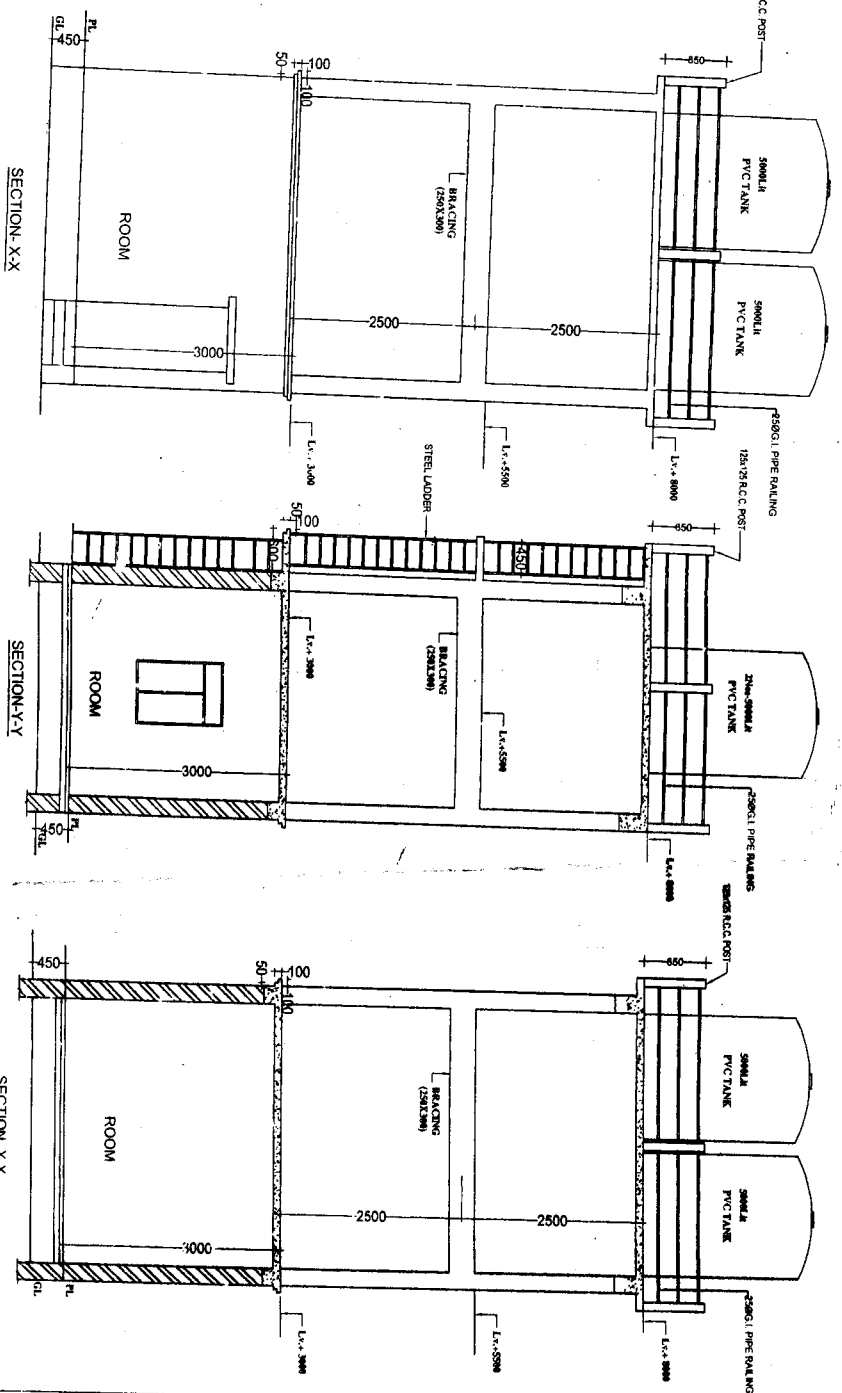
A.I.Z.
12.2.18

S.I.E.
12.2.18

S.I.E.
06.2.18



GROUND FLOOR PLAN



SCHEDULE OF DOORS & WINDOWS	
TYPE	SIZE
D	900X2100
W	900X1200
V	450X450

847

Handwritten signature and date: 2 January 11 4 17

SCON PVT LTD
 Structure Design Consultants
 House No. 12/11 Pasda Temple

NOTES:

1. ALL DIMENSIONS ARE IN MM.

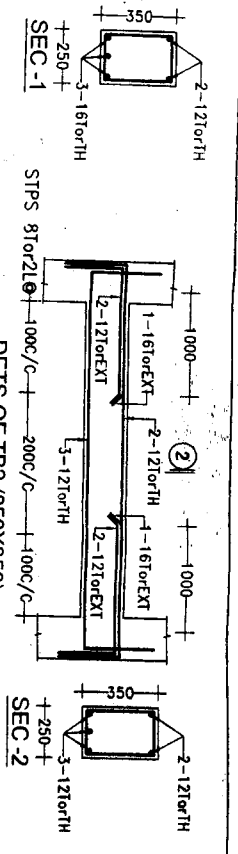
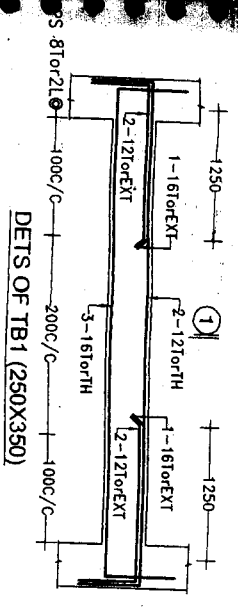
PROJECT No.	TITLE
41	ARCHITECTURAL DETAILS OF ATTENDANT ROOM

DATE: 11/01/11

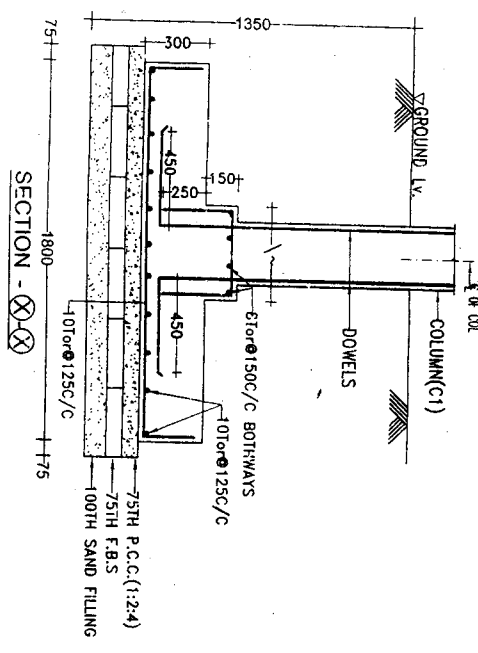
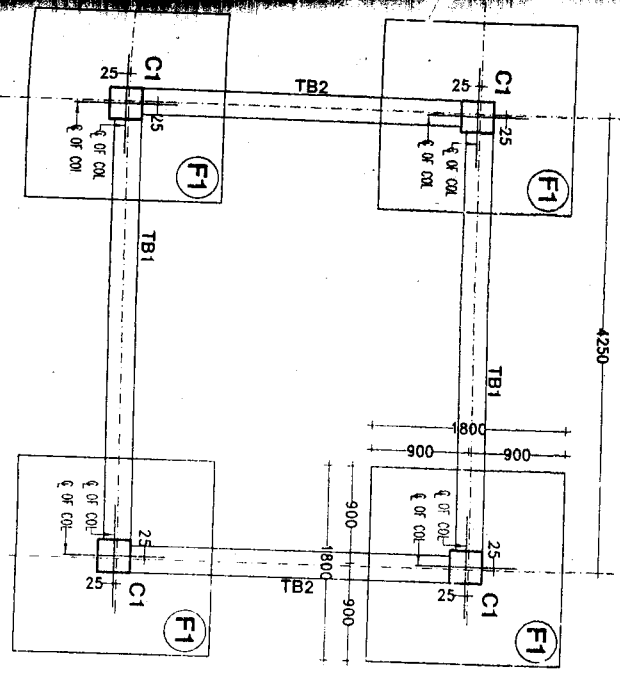
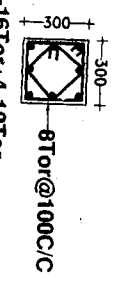
PROJECT: RAJIB KANTH MISHRA, PUNYA POKHAR, SANGHVI, SANGHVI, SANGHVI, SANGHVI

PREPARED BY: RAJIB KANTH MISHRA, PUNYA POKHAR, SANGHVI, SANGHVI, SANGHVI, SANGHVI

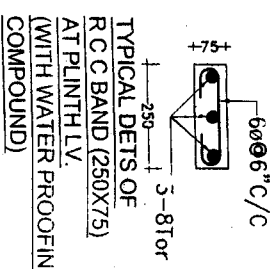
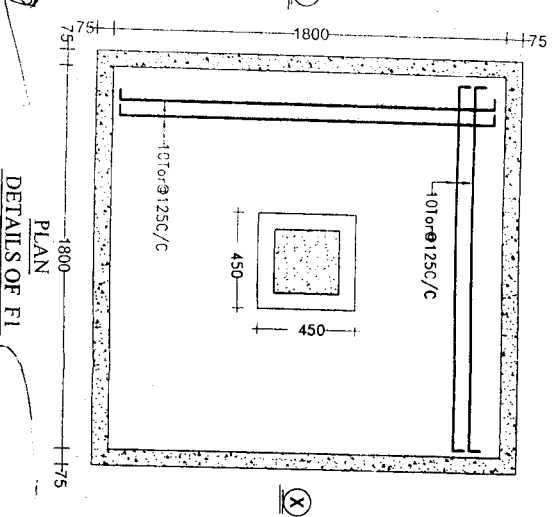
294



4-16T or 4-12T or
 DETS OF COLUMN
 C1 (300X300)



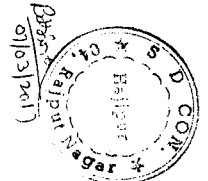
DETAILS OF F1



NOTES:
 1. ALL DIMENSIONS ARE IN mm
 2. REFER DWG NO S2 FOR ROOF SLAB DETS

PROJECT TITLE: STRUCTURAL DETAILS OF ATTENDANT ROOM

WORK: Typical Plan and Elevation of RCC Slabging With Overhead HDPE Water Storage And Enclosure at FF in House R/R/Switch Panel Etc.



DATE: 11-11-17	SCALE: 1/8
PROJECT: ANJAN WATRI, NEERAVANNA	CLIENT: ANJAN WATRI, NEERAVANNA
DRWING: S3	REV: PUBLIC HEALTH ENGINEERING DEPARTMENT, BHAR