

**Electrical Work Estimate For Construction of the Institution Toilet Block
at Tarakeswar Mahavidyalaya Ward no 9 within Tarakeswar Municipality**

CT-P-5

No. Of seat - Male - (W.C. -3 + Urinal -2) & Female - (W.C. -3 + Urinal -1) = Total (W.C. -6 & Urinal -3)

Rate As per PWD Electrical Works (Volume 1) With effect from 01.11.2017, WB I & WD & UD & MA schedule

Sl. No.	Item Description & Item No.	Quantity	Rate	Unit	Amount
1	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC d mending good damages to building works. [PVC casing-capping and Switch board both on surface] Average run 5 mtr (PWD sch P- E-14, I-2,a) Rigid Conduit	20	577.00 612/-	Point	11540.00 12240.00
2	Supplying and fixing Sheet steel Main Switches on flat iron frame on wall 240V DP with fuse on L&N 32 A [Make- Havells] 30mA Rccb (LEGRAND) PWD Schedule Page No-D-1 Item No-1(a) P-92	1	1277.00 5942/-	Nos	1277.00 5942.00
3	Wiring in 1.1 KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) of following sizes in 25mm PVC casing-capping (Precision make) incl. necy. PVC clips, fittings etc. Rigid Conduit 2 x 36/0.3 (2.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC [PWD Schedule Page No-E-14 Item No-1(a), 11]	25 22	102.00 119/-	mtr	2550.00 2618.00
4	Supplying and fixing MCB SS enclosure with IP-20/30 protection, powder coated provision for two/four pole MCB, concealed in wall after cutting the wall & mending good the damages to original finish incl. painting, (2+4) way connection & provision for earthing attachment (4-way MCB enclosure) Insul Isolator [PWD SCH P-D 9 Item-113]	1	316.00 1143/-	No	316.00 1143.00
5	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection 6-32A SP MCB (Make -Havells) [PWD Schedule Page No-D-6:Item No-7]	4	168.00	Nos	672.00
6	Supply of TMC501 conventional industrial batten philips LED Tube,model no- TMC501 P1xT-LED 22W P3241 (WB I & WD schedule P-113, I- 5:3 F.22)	6 5	451.00	Nos	2706.00 2255.00
7	Fixing only single/twin fluroscent light fitting complete with all accessories directly on wall/ceiling by screws etc.. [PWD Schedule Page No-C-2;Item No-14a]	6 5	86.00	Nos	516.00 430.00
8	Supply & fixing Bulk head light fittings with die cast aluminium housing frosted/clear glass on wall/ceiling incl S/F 9 watt LED Lamp complete set. [Make - Havells] (PWD sch - Page--D-13, I-23)	6 8	644.00 654/-	Nos	3864.00 5232.00
9	Supply & fixing smart bright street light complete with all accessories to be fixed from the wall of building or on pole incl. making connections as required & mending good damages incl wall paingting. (30 Watt) (Make - Bajaj) [WB I&WD sch P-5:3 , I-f.9.0.2]	1 2	3016.00	Nos	3016.00 6032.00
10	Supply of 12" domestic metal exhaust fan 230V 50 Hz (Model- Trans Air 12" Grey) (Make- Crompton/Havells/Bajaj) (UD & MA schedule P-14, I-5)	4	2093.00	Nos	8372.00

11	Fixing only exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diameter: 30 cm (12") [PWD Schedule Page No-C-4;Item No-28(b)]	4	329.00	Nos	1316.00
12	Fixing only louver shutter/cowl on wall with necy. bolts & nuts (6 mm dia x 62 mm long) For 30 cm(12") Exhaust fan [PWD Schedule Page No-C-4;Item No-28(b)]	4	110.00	Nos	440.00
13	S/F 240V 25A Modular type starter (brand approved by EIC)with 25 A. Modular switch DP MCB (C-Curve)and 4 Connections with PVC Copper wire and earth connectivity wire etc. as per schedule [for Pump] [PWD Schedule Page No-E-19, Item No-17] (Please follow in details)	1	784.00	Nos	784.00
14	Supply and Fixing of 2 mm Polyvinyl glow sign board made of 22 SWG GI sheet box with 1"X1" aluminum channel for fixing the vinyl board after necessary cutting the letter as required & s/f LED tube light fittings along with all accessories. (16 sqft @495.00/sqft) (UD & MA schedule P-14, I-4)	1	7920.00	Nos	7920.00
15	Fixing only outdoor / street light type fluorescent light fitting complete with all accessories to be fixed/projected from the wall of the building incl. making holes to building, S&F 40 mm dia GI pipe (ISI-Medium) 1.50 mts. (A8) PWD Schedule Page - C-3, Item No. -19	1	722.00	Nos	722.00
16	Supply & Fixing of P/M set (1 H.P) Monoblock for U/G Reservoir (Crompton/ Havells)	1	6350.00	Each	6350.00
17	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts.ng and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level as below: (a) By ISI-Medium GI pipe Set PWD Elec. It No. 2(a) Page. G-1	1	1369.00	Nos	1369.00
				Sub Total of (C)	56746.00
				Add S.G.S.T. @ 18.9%	5107.14
				Add C.G.S.T. @ 9%	5107.14
				Cost Of Electrical Work	66960.28
				Add L.W.C. @ 1%	669.60
				Total payable Amount Including L.W.C.	67629.88
				Add Contengency @3%	2008.81
				Total payable Amount Including L.W.C. and contengency	69638.69
				Say Rs.	69639.00
In Word (Say) : Rupees Fifty Nine Thousand Eight Hundred Thirty Two only					

60099.00

10817.82

70916.82

709.16

71625.98

2127.50

73753.48

73,753.00

Technically Vetted Rs.: 73,753.00

(Rupees Seventy three Thousand Seven Hundred

and fifty two only.)

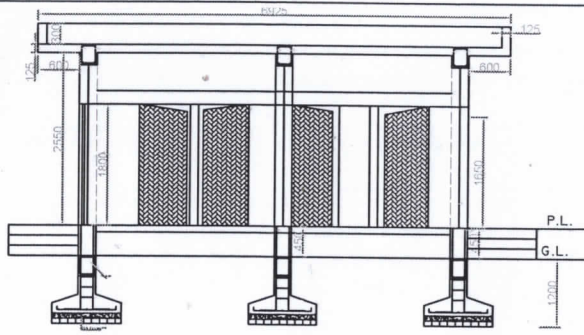
Sub Assistant Engineer
Tarakeswar Municipality

Junior Engineer
Electrical & Mechanical Division:
SUDA

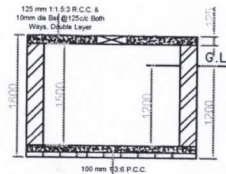
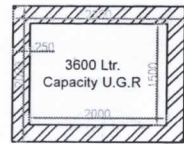
ASSISTANT ENGINEER
ELECTRICAL & MECHANICAL DIVISION
SUDA

Executive Engineer (E/M)
O/O the Secretary M.E. Dept.
Government of West Bengal

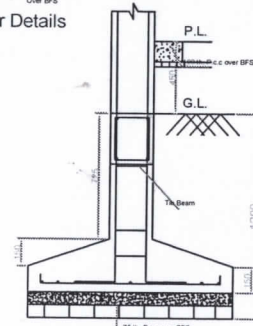
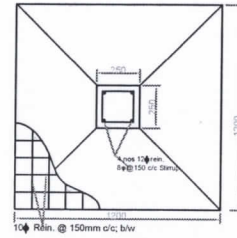
CHARMAN
TARAKESWAR MUNICIPALITY



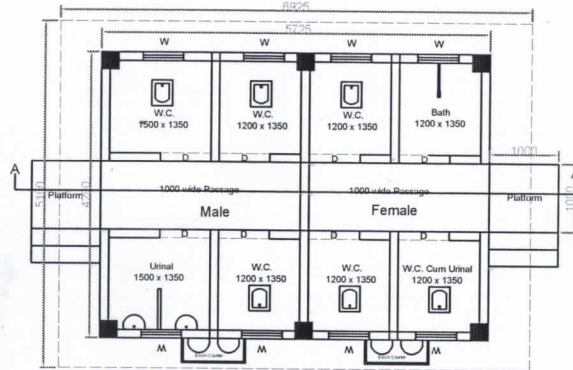
DETAILS OF WALL SECTION A-A



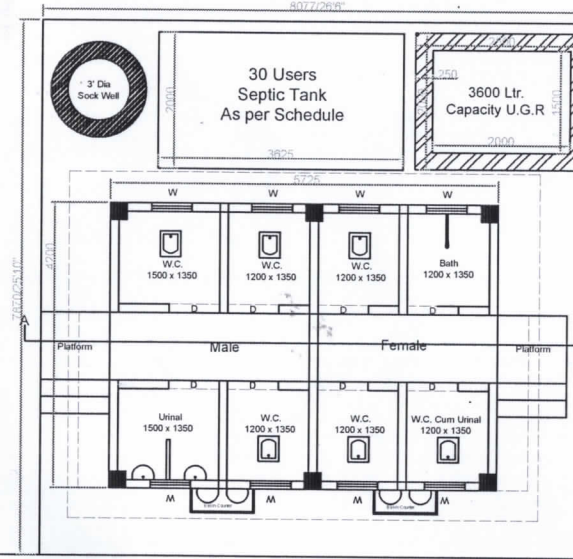
Under Ground Reservoir Details



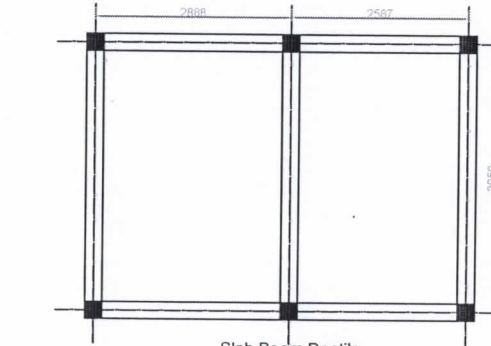
DETAILS OF FOUNDATION (SCALE 1:25)



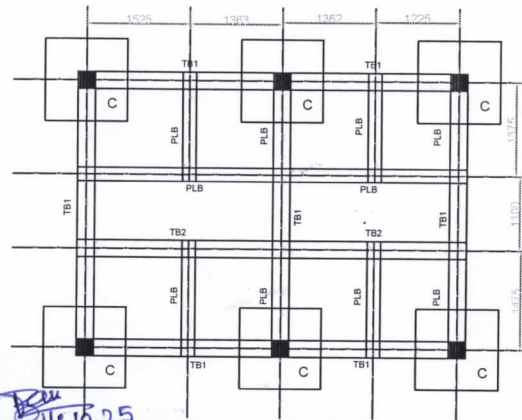
Ground Floor Plan



Sample Site Plan For CT Plan 5



Slab Beam Details



Foundation & tie Beam Details

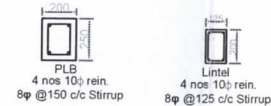
Area Statement

Builtup Area - 24.04 Sq.m.
Roof Area - 35.31 Sq.m.

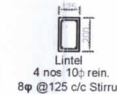
MKD.	Size	Reinforcement				Stirrup
		Support		Span		
		Top	Bottom	Top	Bottom	
TB1&B1	250x300	3#16	2#16	2#16	3#16	8φ@150c/c
TB2&B2	200x250	3#12	2#12	2#12	3#12	
All Column	250x250	4#12				8φ@150c/c

Door - Window Shedule

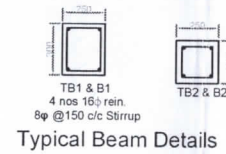
MKD.	Size
D	750x1800
W	600x450



PLB
4 nos 10φ rein.
8φ @150 c/c Stirrup



Lintel
4 nos 10φ rein.
8φ @125 c/c Stirrup

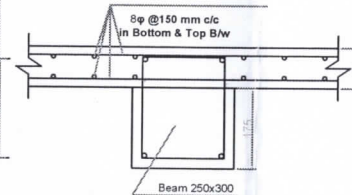


TB1 & B1
4 nos 15φ rein.
8φ @150 c/c Stirrup



TB2 & B2

Typical Beam Details



Slab Beam Details

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM.
 2. OUTER WALL IS 125 MM.TH. WITH 1ST CLASS BRICKS IN CEMENT MORTER(6:1) AND PARTION WALL IS 125MM. TH. IN CEMENT MORTER(4:1)
 3. GRADE OF CONCRETE M-20 ORDINARY CEMENT CONCRETE (MIX:1.5:3)
 4. GRADE OF STEEL:FE-510
 5. 25MM. TH D.P.C(MIX:2:4) WILL BE APPLIED
 6. PLASTERING:
OUTSIDE-15MM. TH. IN CEMENT MORTER(1:6)
INSIDE-15MM. TH. IN CEMENT MORTER(1:6)
CEILING-10MM. TH. CEMENT MORTER(1:4)
- BEARING CAPACITY OF SOIL AT DEPTH 1M BELOW G.L. = 110 KN/M2, WHICH MUCH BE EXPLODED BEFORE CONSTRUCTION. REDRAWING & REDESIGN IS NESSESARY IS BEARRING CAPACITY OF SOIL IS POOR THEN ASSUMED.

DRAWING FOR CONSTRUCTION OF C.T. AT TARAKESWAR MAHABIDYALAY AT WARD NO. 9

CHAIRMAN
TARAKESWAR MUNICIPALITY

Signature Of Authority

Sub Assistant Engineer
Tarakeswar Municipality