

**TAMIL NADU POLICE HOUSING CORPORATION LTD.,**

**(An ISO 9001 : 2015 Certified Company)**

**No. 132, E.V.R. Salai, Kilpauk, Chennai – 10**



Lr. No.CE / Plg/ 593 / 2021

Dated:02.06.2023

To

The Director General of Police,  
Head of Police Force,  
Tamil Nadu,  
Chennai – 04.

Sir,

**Sub:** TNP HC Ltd – Construction of Urban Police Station building at Nachiyarkovil in Thanjavur District - Feasibility report along with plan and detailed estimate – Sent for approval - Requested – Reg.

**Ref:** 1. Budget Announcement 2023 – 2024 on 20.04.2023 & 21.04.2023.  
2. The DGP's Lr.C.No.02939-3/ Bldg I (1)/2023, Dated:26.04.2023.

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With reference to the letter cited, the detailed estimate proposal for the the construction of Urban Police Station building at Nachiyarkovil in Thanjavur District to a value of **Rs.265.96 Lakhs** comes under the Hon'ble Chief Minister of Tamil Nadu announcement No.47 in the reference 1<sup>st</sup> cited.

2) Based on the Budget Announcement 2023-24, the DGP/HoPF has requested to furnish the detailed estimate proposal vide in the reference 2<sup>nd</sup> cited.

3) Accordingly, the detailed estimate for the construction of Urban Police Station building at Nachiyarkovil in Thanjavur District is prepared adopting PWD schedule of rates 2023-24, Electrical SD for the year of 2023-2024 and TWAD schedule of rates for the year of 2022 - 23 including all over head charges. Necessary Type design and tentative layout are enclosed herewith.

Sl.No	Name of Work	Amount in lakhs	Remarks
1.	Construction of Urban Police Station building at Nachiyarkovil in Thanjavur District	<b>265.96</b>	❖ The land is identified in S.No. 243/3 of Nachiyarkoil village, Kumbakonam Taluk in Thanjavur District having an extent of 0.43.00 Hectare.

			<ul style="list-style-type: none"> <li>❖ The land belongs to Police Department.</li> <li>❖ It is feasible to construct Urban Police Station building at Nachiyarkovil in Thanjavur District, only after dismantling the existing old Police Station building.</li> </ul>
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3) It is requested that necessary administrative and financial sanction may be obtained from the competent authority and communicated to us to take up the work early.

**Encl: As stated.**

**Yours faithfully,**



**Chief Engineer**



Tamil Nadu Police Housing Corporation LimitedGENERAL ABSTRACT

**Name of work: Construction of Urban Police Station Building at Nachiyarkoil in Thanjavur District under Announcement made by the Hon'ble Chief Minister for the year 2023 - 2024**

S. No.	Qty	Description	Rate	Unit	Amount
		<b>BUILDING WORKS</b>	<b>AS PER PWD SR 2023 - 2024</b>		
1	1.00	Main Building (Stilt + 2)	11266279.44	1 Unit	11266279.44
		<b>SUB - TOTAL - I Rs.</b>			<b>11266279.44</b>
2	1.00	Provision for Septic Tank	233119.69	1 Unit	233119.69
3	1.00	Provision for Plinth Protection	79491.42	1 Unit	79491.42
4	1.00	Provision for Sullage Drain	67510.33	1 Unit	67510.33
5	1.00	Provision for Sump	339932.83	1 Unit	339932.83
6	1.00	Provision for Pump Room	216284.47	1 Unit	216284.47
7	1.00	Provision for Two Wheeler Shed	952281.47	1 Unit	952281.47
8	1.00	Provision for Security Periphery wall	1466237.00	1 Unit	1466237.00
9	1.00	Provision for Paver block Road	637756.59	1 Unit	637756.59
10	1.00	Provision for Culvert	718089.12	1 Unit	718089.12
11	1.00	Provision for Borewell & Water Supply arrangements	412686.93	1 Unit	412686.93
12	1.00	External Electrical arrangements	147907.68	1 Unit	147907.68
13	1.00	Provision for Numbering and Lettering	54851.88	1 Unit	54851.88
14	1.00	Provision for Surrounding Filling	448016.66	1 Unit	448016.66
		<b>SUB - TOTAL - II Rs.</b>			<b>17040445.51</b>
15		Provision for Retaining wall	L.S		400000.00
16		Provision for GYM arrangements	L.S		500000.00
17		Provision for Solar arrangements	L.S		500000.00
18		Provision for Portable drinking water	L.S		500000.00
19		Provision for elevation arrangements	L.S		200000.00
20		Provision for renovation and reconstruction of existing Compound wall	L.S		500000.00
21		Provision for Soil Investigation	L.S		50000.00
		<b>SUB - TOTAL - III Rs.</b>			<b>19690445.51</b>
22		GST @18%			3544280.19
		<b>SUB - TOTAL - IV Rs.</b>			<b>23234725.70</b>
23	LS	Labour Welfare Fund @ 1.00%	LS		196904.46
24	LS	Unforeseen items, Contingencies & Petty Supervision charges @ 1%	LS		196904.46
25	LS	Supervision charges @ 5%	LS		984522.28

S. No.	Qty	Description	Rate	Unit	Amount
		<b>SUB - TOTAL - IV Rs.</b>			<b>24613056.90</b>
26	LS	Advertisement charges	LS		233000.00
27	LS	Provision for Planning permission & Payment to other department	LS		600000.00
28	LS	Provision for EB Deposits	LS		1000000.00
29	LS	Provision for Inaugural Stone fixing Charges	LS		50000.00
30	LS	Structural Design / Consultancy charges	LS		100000.00
		<b>GRAND TOTAL Rs.</b>			<b>26596056.90</b>
					<b>Say Rs.265.96 Lakhs</b>

  
**Chief Engineer**  
 Tamilnadu Police Housing Corporation Ltd.  
 Chennai - 600 010.  


## ABSTRACT

**Name of work: Construction of Urban Police Station Building at Nachiyarkoil in Thanjavur District under Announcement made by the Hon'ble Chief Minister for the year 2023 - 2024**

Sl. No.	Qty.	Description	Rate	Unit	Amount
1	2	3	4	5	6
1.1		Earth work excavation in all soils (including refilling)			
	396.30	a. 0 to 2 mt.	237.08	Cum.	93954.80
	50.10	b. 2 to 3 mt.	247.63	Cum.	12406.26
1.5		Earth work excavation for Open foundation (excluding refilling)			
	127.40	a. 0 to 2 mt.	112.05	Cum.	14275.17
	8.60	EW open for darin (0 to 2M)	168.08	Cum.	1445.49
2.1	58.20	Filling C.S. sand	2000.90	Cum.	116452.38
2.6	3.00	Supply and filling of 40 mm HBSJ	1878.51	Cum.	5635.53
2.7	3.00	Supply and filling of 20 mm HBSJ	2297.71	Cum.	6893.13
	45.20	Supply and filling of 3 to 10 mm HBSJ	1543.43	Cum.	69763.04
	301.30	Supplying and laying Rubber Moulded Hydraulic Pressed Paver Block 83mm thick including labour charges for laying etc., PWD SR 2023 - 2024 / P-40	552.00	Sqm.	166317.60
	45.20	Supplying and Filling of crushed stone dust	581.65	Cum.	26290.58
	24.10	Labour Charges for Spreading and Leveling of 3mm to 10 mm Size HBSJ and Stone dust to Required Thickness with compaction by Earth Rammer Further Laying of 83mm thick pavaour block and filling gap between the paver blocks including labour charges and machinery charges etc.,all complete and as Directed by Departmental Officers. (QTN)	250.00	Cum.	6025.00
	301.30	Delivery of 83mm thickness of Paver Block including Labour charges for loading and unloading Charges for conveyance by lorry to Site including all incidental charges etc all complete and as Directed by Departmental Officers. (QTN)	220.00	Sqm.	66286.00
3.1	67.24	C.C.1:5:10 for Foundation & Basement	5448.57	Cum.	366361.85
3.2	8.00	P.C.C. 1:2:4 for Foundation & Basement and other similar works	7000.03	Cum.	56000.24

Sl. No.	Qty.	Description	Rate	Unit	Amount
6.5	101.50	Brick work in C.M. 1:5 (F& B) using Kiln Burnt Country bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4")	6695.56	Cum.	679599.3
9.5		Brick work in C.M. 1:6 using Kiln Burnt Country bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4")			
	48.90	a. In Ground Floor	6701.98	Cum.	327726.82
	56.10	b. In First Floor	6861.18	Cum.	384912.20
	43.20	c. In Second Floor	7020.38	Cum.	303280.42
	23.10	d. In Third Floor	7179.58	Cum.	165848.30
10.5		Brick partition work in C.M. 1:4 Kiln Burnt Country bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4") 110 mm tk (B.P.)			
	73.20	a. In Foundation and basement	808.34	Sqm.	59170.49
	263.90	b. In Ground Floor	817.02	Sqm.	215611.58
	36.30	c. In First Floor	834.53	Sqm.	30293.44
	49.90	d. In Second Floor	852.04	Sqm.	42516.80
11.5		Brick work in C.M. 1:4 Kiln Burnt Country bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4") 70 mm tk (B.P.)			
	22.70	b. In First Floor	567.35	Sqm.	12878.85
	18.00	c. In Second Floor	578.49	Sqm.	10412.82
12.1		Brick partition in C.M. 1:4 using country bricks of size 22 x 11 x 5 cm 50 mm thick			
	5.70	a. In Ground Floor	402.83	Sqm.	2296.13
	5.70	b. In First Floor	410.79	Sqm.	2341.50
	4.90	c. In Second Floor	418.75	Sqm.	2051.88
21.2		Teak wood Wrought & Put up			
	0.126	a. T.W. over 2 m & below 3 m	125290.00	Cum.	15786.54
	0.068	b. T.W. below 2 m length.	113090.00	Cum.	7690.12

	Qty.	Description	Rate	Unit	Amount
23.3	18.00	S&F of Magnetic door catches	52.00	Each	936.00
24.0	1845.20	Manufacturing & supply of steel windows (Weight basis)	69.60	Kg.	128425.92
25.0	96.00	M.S.Holdfast	9.60	Each	921.60
26.0	9.90	Flooring in C.C.1:5:10	5448.57	Cum.	53940.84
28.0	111.80	Floor plastering in C.M. 1:4, 20 mm tk.	517.37	Sqm.	57841.97
30.0	34.00	Ellispattern	458.89	Sqm.	15602.26
31.0	25.30	Weathering course	3745.64	Cum.	94764.69
32.1	194.80	Pressed tiles (23cmx23cmx20mm) mixed with Water proofing compound	1196.20	Sqm.	233019.76
33.0	2997.71	Plastering in C.M. 1:5, 12 mm tk.	255.19	Sqm.	764985.61
34.0	105.00	Plastering in C.M. 1:4, 12 mm tk.	261.28	Sqm.	27434.40
35.0	481.52	Spl. Ceiling plastering in C.M. 1:3, 10 mm tk.	290.06	Sqm.	139669.69
36.0		Cement mortar Border in C.M. 1:5, 12 mm tk.			
	233.80	a. 150 mm wide	81.02	Rmt	18942.48
	233.80	b. 75 mm wide	52.70	Rmt	12321.26
	73.80	c. 50 mm wide	39.21	Rmt	2893.70
37.1	481.52	White washing 3 coats (slaked)	45.28	Sqm.	21803.23
39.0	1449.30	M.s Grills	70.15	Kg.	101668.40
40.0	76.50	Painting - New "wood work"	233.74	Sqm.	17881.11
41.0	293.40	Painting - New "iron work"	138.35	Sqm.	40591.89
46.0	73.00	S & F 20 mm dia Alu. Hanger Rod	58.00	Rmt	4234.00
47.0	8.00	S & F Alu Towel rail 75 cm long	95.00	Each	760.00
48.0	15.00	S & F 5 pin Coat stand	55.00	Each	825.00

Sl. No.	Qty.	Description	Rate	Unit	Amount
49.0	50.00	S & F chromium plated 8 guage Picture Hook	1.50	Each	75.00
50.2	85.50	Providing precast Kerb stone in C.C. 1:3:6, 450 x 300 x 150 mm	291.06	Rmt	24885.63
50.3	3.00	Supply and planting avenue trees	413.21	Each	1239.63
50.4	3.00	Providing Tree guard	884.89	Each	2654.67
50.5	1.00	Supplying. Fabricating and erection of M.S Scheme Name board	19477.40	Each	19477.40
52.0		PVC Water supply (ASTM)			
	30.00	a. 32 mm dia	252.01	Rmt	7560.30
	73.00	b. 25 mm dia	234.40	Rmt	17111.20
53.3	12.00	C.I. Steps ( 5 kg)	30.00	Each	360.00
59.5	17.00	Gully Trap using Kiln burnt country bricks 22 x 11 x 7 cm.	2000.72	Each	34012.24
60.0	11.00	PVC Nahani trap (4way/2way)	160.00	Each	1760.00
69.0	10.00	15 Amp. Power plug	150.00	Each	1500.00
72.0	19.00	Box type Fibre Fan hook	33.90	Each	644.10
73.10	2.00	6 way - D.B.	4248.34	Each	8496.68
74.0	19.00	Charges for fixing of "Fan"	601.20	Each	11422.80
76.0	10.00	8 SWG wire	27.13	Rmt	271.30
77.3	6.00	S&F of TV/Telephone line Socket	77.01	Each	462.06
77.4	60.00	S&F of 20mm dia PVC pipe for TV/Telephone line	88.71	Rmt	5322.60
78.0	1.00	Earthing Station IS3043 (Type I)	2997.60	Each	2997.60
81.0	0.80	Meter cupboard	2543.20	Sqm	2034.56
86.0	178.00	Anti termite treatment	34.00	Sqm.	6052.00
		ANNEXURE			
14.1		Precast Cupboard slab 20 mm tk.using standardised concrete mix M20 (annexure)			



Qty.	Description	Rate	Unit	Amount <sup>5</sup>
14.40	b. In First floor	1496.10	Sqm.	21543.84
25.20	c. In Second floor	1500.87	Sqm.	37821.92
14.II	Precast cupboard slab 40 mm tk.using standardised concrete mix M20 (annexure)			
7.30	a. In Foundation & basement	1648.43	Sqm.	12033.54
3.60	b. In Stilt / Ground Floor	1653.27	Sqm.	5951.77
6.30	c. In First floor	1662.80	Sqm.	10475.64
	Precast Jally ventilator 50mm tk.using standardised concrete mix M20 (annexure) without vibrating charges			
5.80	a. In Ground Floor	2980.29	Sqm.	17285.68
	Standardised concrete Mix M20 Grade Concrete			
136.10	a. In Foundation and basement	8496.17	Cum	1156328.74
63.69	b. Stilt / Ground Floor	8616.02	Cum	548754.31
45.80	c. In First Floor	8852.12	Cum	405427.10
42.80	d. In Second Floor	9088.22	Cum	388975.82
7.00	e. In Third floor	9324.32	Cum	65270.24
24.80	Plastering with CM 1:3, 12mm with WPC	279.97	Sqm	6943.26
1069.60	Supplying and filling with gravel	729.55	Cum	780326.68
18.1	Formwork using M.S.Sheet			
370.90	a.For Column footings,plinth beam,Grade beam,Raftbeam,Raft slab etc.,	848.08	Sqm	314552.87
1081.11	b.Plain surfaces such as Roof slab,floorslab,Beams,lintels,lofts,sill slab,staircase,portico slab and other similar works	946.62	Sqm	1023400.35
428.90	c.For Square and rectangular columns and small quantities	1135.94	Sqm	487204.67
2.00	e.Circular Surface	1419.93	Sqm	2839.86
21.6	R.C.C.Door frames of size 100 x 75mm with one edge grooves size 't' x 20 mm using M30 grade ( with out vibrating charges)			

Sl. No.	Qty.	Description	Rate	Unit	Amount
	14.00	c. 1000 x 2100 mm	2813.39	Each	39387.06
	48.50	T.W. frame & TW styles & rails with BWR double leaf shutters for cup board/ ward robes including two coat enamel paint & one coat primer.	4253.06	Sqm	206273.41
	3.50	TW double leaves shutter of size with brass fittings a.1800 x 2100mm	5987.54	Sqm	20956.39
	2.30	TW panelled door double leaves shutter with brass fittings of size . 1200X2100mm.( Crime & Traffic)	7153.15	Sqm	16452.25
	25.60	TW styles & rails with 9mm thick BWR single leaf shutters with brass screws size of 1000 x 2100 mm	3513.76	Sqm	89952.26
21.5.2	17.80	Supply and Fixing Solid UPVC door Shutter with frame	3325.00	Sqm	59185.00
23.2.1	55.30	4mm thick pin headed Glass panels with Aluminium beddings	835.70	Sqm	46214.21
29.8	165.50	Glazed tiles using Grout (Tile Joint Filler), C.M 1:2, 10mm tk	1379.02	Sqm	228227.81
29.9	44.00	Floor ceramic tiles (Anti-skid) using Grout (Tile Joint Filler).	1215.30	Sqm	53473.20
43.0	32.259	Fabrication of Mild steel / RTS grills (without cement slurry) for all sizes of rods.	88873.50	MT	2866970.24
44.6	78.30	PVC SWR 110 mm dia with ISI mark type- A for Rain water, down fall pipe	343.11	Rmt	26865.51
50.6	29.60	Precast slab 50 mm tk.in C.C. 1:3:6 with fibre	436.67	Sqm	12925.43
52.4	42.00	20mm dia PVC water supply ASTM pipe (fully consealed in walls)	231.61	Rmt	9727.62
53.4	4.00	S&F of C.I Manhole cover 60 x 60 cm (50kg weight )	1864.00	Each	7456.00
	7.00	Wash Hand Basin of size 550 x 400 mm (White without Pedestal)	3337.32	Each	23361.24
58.3		PVC SWR pipe (Soil line) with ISI mark - type 'B'.			
	68.00	a. 110 mm dia.	717.55	Rmt	48793.40
	28.00	b. 75 mm dia.	600.25	Rmt	16807.00
58.4	26.00	Supplying, Laying & Concealing the 50mm dia PVC (SWR) pipe with ISI mark type - 'B' with relevant specials.	114.45	Rmt	2975.70
58.5	1.00	PVC(SWR) pipe with ISI mark - type 'A' for Ventilating shaft with cowl	454.00	Each	454.00
		Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.( Modular)			
	43.00	a. Light point with ceiling rose	1692.10	Each	72760.30

	Qty.	Description	Rate	Unit	Amount
	36.00	b. Light point without ceiling rose	1695.10	Each	61023.60
	3.00	c. Calling bell point with Buzzer/Calling bell	1732.10	Each	5196.30
	6.00	Light point with ceiling rose open wiring	921.20	Each	5527.20
65.1	19.00	Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for Fan point controlled by 6A Modular switch 1 Way.	1767.10	Each	33574.90
66.1	3.00	Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for Staircase Light Point controlled by 6A Modular switch 2 Way.	3176.20	Each	9528.60
	23.00	Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for 5 amps 5 pin plug socket point @ Switch Board Itself controlled by 6A Modular switch 1 Way.	869.50	Each	19998.50
68.2	14.00	Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for 5 amps 5 pin plug socket point @ Convenient Places controlled by 6A Modular switch 1 Way.	1174.40	Each	16441.60
	19.00	Supply and delivery of 48" (1200 mm) Fan with ISI mark with Eletronic Dimmer	1552.70	Each	29501.30
	50.00	Run of 2 Wires of 2.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.	232.90	Rmt	11645.00
	60.00	4 x 4 Sq mm copper PVC insulated unsheathed single core cable for 3 phase EB service connection	275.30	Rmt	16518.00
44.2		Rain water harvesting using defunct borewell and providing perforated cover slab			
	2.00	a). Providing pit (M20)	2321.09	Each	4642.18
	6.00	b) Augering 30cm dia	529.13	Rmt	3174.78
344.2	7.00	S&F of Bevelled edge mirror 500 x 400 x 5.5mm	398.30	Each	2788.10
71.2	1.00	Supplying and fixing of 32 AMPS Triple pole main switch	2195.34	Each	2195.34
80.1	1.00	450 x 375 x 20 mm thick TW plank	1345.34	Each	1345.34
	1.00	3 Nos.of 32Amps - Fuse Unit	852.12	Each	852.12
87.1	1.00	Supplying and delivery of Three phase ELCB/RCCB	3091.30	Each	3091.30
	7.00	Supply of G.I pipe 40mm dia 'B' Class	165.00	Rmt	1155.00

Sl. No.	Qty.	Description	Rate	Unit	Amount
	1417.60	Exterior Emulsion PAINT including primer for outer walls (Two coat)	232.98	Sqm	330272.2
38.4.1	1536.60	Two coat of Plastic Emulsion paint including one coat primer for inner walls	231.43	Sqm	355615.34
448.2	7.00	Providing PVC Tee with end cap	138.32	Each	968.24
	14.20	Providing wooden Melamine polish for new wood work	1438.54	Sqm	20427.27
	233.70	Supply and Laying of Nano Polish Vitrified tile Flooring with 1st Quality homogeneous tiles in C.M 1:3 20mm Thick incl. pointing with Latricrete or Equivalent make Epoxy Stain Free (SP-100) grout	1258.74	Sqm	294167.54
s	161.70	Concrete designer tiles flooring	1488.67	Sqm	240717.94
		Supply & Fixing of MS door (for lockup door)			
	2.00	MS door of Size 1000 x 2100mm	9385.85	each	18771.70
		Supply & Fixing of MS ventilator of size (lockup)			
	2.50	MS Ventilator of Size 1350 x 600mm	4297.06	Sqm	10742.65
		UPVC Non Pressure pipe of SN8 SDR 34 (S 16.5) as per IS 15328/2003			
	35.00	a. 110 mm UPVC Non Pressure pipe	482.86	Rmt	16900.10
	18.00	b. 160 mm UPVC Non Pressure pipe	807.13	Rmt	14528.34
		PVC Specials as per IS 10124/1982 Part II			
	2.00	a. 110 mm dia PVC bend (TWAD SR 21-22)	173.00	Each	346.00
		PVC Equal Tee as per BIS 7834/1975			
	2.00	a. 110 mm dia PVC Equal tee (TWAD SR 21-22)	195.00	Each	390.00
	1.00	S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm with PVC SWR grade 'P' or 'S' trap - in G.F.	3340.03	Each	3340.03
	4.00	S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm with PVC SWR grade 'P' or 'S' trap- Other than G.F.	5218.36	Each	20873.44
	7.00	S & F of E.W.C.(White) 500 mm with PVC SWR grade "P" or "S" TRAP	7114.20	Each	49799.40
	111.20	Supplying and fixing of Galvalume sheet roofing 0.47mm thick with required bolt and nuts and labour for fixing etc., all complete and as directed by the departmental officers.	997.61	Sqm	110934.23

Qty.	Description	Rate	Unit	Amount
859.00	Supplying and fixing of metal and iron works including labour charges for petty iron worksPWD SR 2023 - 2024 (P- 20 - M-0187) + P - 29 - W-0166)	108.35	Kg	93072.65
50.00	Run off mains with 2 wires of 1.5 Sqmm copper PVC insulated unsheathed single core 1.1KV cable wire continuous earth etc., (Open wiring)	131.16	Rmt	6558.00
10.00	S & F of 15mm dia half turn CP long body tap	488.00	Each	4880.00
12.00	S & F of 15mm dia half turn CP short body tap	440.00	Each	5280.00
	Borewell & Water Supply arrangements			
1.0	Drilling of Borewells anywhere in Tamilnadu including transportation from one place to another with in Tamilnadu in alluvial soil sedimentary strata of clay and sand stone shale pebbles boulders etc. By first taking a pilot bore of 140mm/150mm dia and then enlarging to required dia direct or reverse rotary mud circulation method using rotary rigs, fuel, labour and drilling bentonite and water required for drilling at site ( Site will be shown by the TNPHC Officers) including construction of mud pit.			
76.00	(i) Upto 76m depth ending below Ground level	551.04	Rmt	41879.04
14.00	(ii) From 76m upto 91m depth ending below Ground level	688.80	Rmt	9643.20
2.0	Reaming 140/150mm dia pilot bore to 300mm dia bore as directed by the departmental officers.			
60.00	(i) Upto 60m depth ending below Ground level	424.60	Rmt	25476.00
30.00	(ii) Upto 60m upto 90m depth ending below Ground level	451.00	Rmt	13530.00
3.0	Supply and delivery of PVC casing pipes suitable for 150mm dia bore well			
54.00	i) 150 mm dia PVC pipe (CM-Casing Medium depth) without slot (TWAD SR 2022-2023)	841.50	Rmt	45441.00
36.00	ii) 150 mm dia PVC pipe (RS - Ribbed screen pipe) with slot (TWAD SR 2022-2023)	1004.50	Rmt	36162.00
4.0	Labour charges for inserting PVC casing pipes assembly ( with slots or with out slots ) in the drilled hole including jointing the pipes with PVC couples with cement paste etc., complete supply and packing the annular space with pebbles of size and quality as approved by the Executive Engineers of Department.			
90.00	(i) 150mm dia casing pipes assembly (TWAD SR 22-2023 it-13 at P-304	369.60	Rmt	33264.00
5.0	Charges for developing the bore well with air compressor of 600 CFM capacity (Minimum 8 hours) including transportation labour and fuel charges for compressor (TWAD SR 2022-2023) P-305	2490.40	Hours	19923.20

Sl. No.	Qty.	Description	Rate	Unit	Amount
6.0	1.00	Supply and delivery of PVC end cap suitable 200mm dia bore well of approved quality etc., all complete. (TWAD SR 2022-2023) P-27	193.50	No	193.50
7.0	1.00	Supplying and fixing of clampset (TWAD SR 2022-2023) it-5.1b	995.00	No	995.00
8.0	1.00	Supply and delivery of clear water vertical wet type three phase 2.0HP submersible pumpset suitable for 150mm dia borewell conforming to IS 8034/2002 with latest amendments and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/difuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS9283 suitable for operation in AC 3 phase 415 V+/- 10 %, 50 HZ +/- 5 % ((20x125) (TWAD SR 2022-2023 / P-100)	34926.00	Nos	34926.00
9.0	1.00	Supply and delivery of 1.00 HP Open well Submersible pump set conforming to IS 14220 /2002 and as amended thereafter and BEE 3 Star Rated capable of discharging the following duties due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze mixed type impeller, CI FG 200 grade casing and brass screws and rotor shall be of copper rod as per IS 613/1984 with ISI mark. The pump suitable for installation in sump with 1.1KV grade 3 core suitable copper flat submersible cable to a length of 15m with necessary cable joints. The nonreturn valve located at the top of the pump in the discharge outlet connection is to be designed with minimum friction. The pump should be directly coupled to 2880 RPM, three phase, 50 Hz (±5), 415V+6% & 415V-15% squirrel cage induction motor suitable for DOL upto 5 HP , Fully Automatic Air break Star Delta up to 20 HP and Auto Transformer starter	30907.00	Nos	30907.00
10.0	1.00	Supplying and delivery of wall mount type Control panel board for three phase 2.0 HP submersible pumpset etc.,all complete. TWAD SR 2022-23 / P-114	7635.00	Nos	7635.00
11.0	1.00	Supply and delivery of three phase 1 HP Panel board Star-Delta starter confirming to IS 13947 and IEC 947 suitable KW rating for operation in AC/3Phase/50HZ(+/- 5%) and 415V (+/- 10%) including 3 pole magnetic contactor with under voltage release - 3 nos., CT operated Ammeter(65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector switch, Miniature circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor(the cost of capacitor is to be taken separately).	12387.00	Nos	12387.00

	Qty.	Description	Rate	Unit	Amount
12.0	2.00	Labour charges for the erection of three phase Upto 3.0HP submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps etc., all complete. TWAD SR 2022-23 / P-308	11056.10	Nos	22112.20
13.0	108.00	Supply of 3 core 4 sqmm PVC insulated flat cable for submersible pumpset etc.,all complete. (TWAD SR 2022-2023)p-120 it-12.1	194.00	Rmt	20952.00
14.0	95.00	Supplying of 14mm dia of Nylon rope etc., all complete. - PWD SOR 2023-2024, P. 112	61.80	Rmt	5871.00
15.0	90.00	Supplying and laying of the 32mm UPVC pipe etc., all complete. (Below Ground Level) (TWAD SR 2022-2023,P-24)	130.10	Rmt	11709.00
16.0	2.00	Supplying of 32 mm Dia Cast Iron Adopter	600.00	Nos	1200.00
17.0		Supplying and delivery of following Dia PVC Pipes			
	38.00	a) 50mm PVC 10 Kg/Cm <sup>2</sup> pipe	151.90	Rmt	5772.20
	8.00	b) 40mm Dia PVC Pipe 10 Kg/Cm <sup>2</sup>	101.40	Rmt	811.20
	18.00	c) 32mm PVC Heavy pipe for submerssible flat cable	248.23	Rmt	4468.14
18.0		Supplying and delivery of following Dia GI Pipes			
	3.00	a) 50mm dia G.I pipe ( B class )	209.00	Rmt	627.00
	24.00	b) 40mm dia G.I pipe ( B class )	163.00	Rmt	3912.00
20.0		Supply and delivery of following dia of PVC specials			
	6.00	a) 50 mm dia PVC Coupling	14.25	Nos	85.50
	2.00	b) 50mm dia PVC tee	43.25	Nos	86.50
	2.00	c) 50x40 mm dia PVC Reducer	22.90	Nos	45.80
	5.00	d) 50mm dia PVC Elbow	28.75	Nos	143.75
	6.00	e) 40mm dia PVC Coupling	10.50	Nos	63.00
	6.00	f) 40mm dia PVC Elbow	20.15	Nos	120.90
	4.00	g) 40mm dia PVC Tee	28.75	Nos	115.00
	2.00	h) 40 x 32 mm dia PVC Reducer	13.30	Nos	26.60

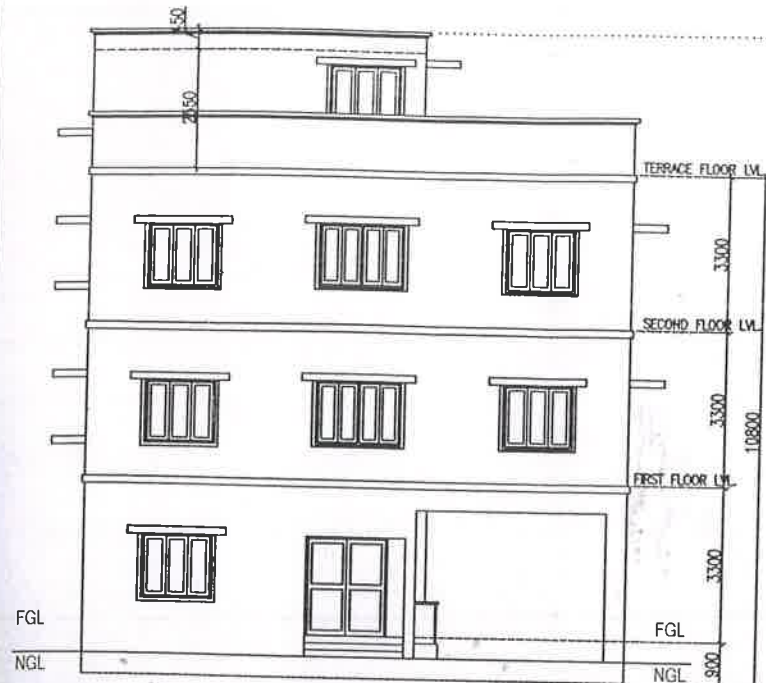
Sl. No.	Qty.	Description	Rate	Unit	Amount
21.0		Supplying and delivery of following dia of G.I specials			
	2.00	a) 50mm dia G.I Bend	116.30	Nos	232.60
	2.00	b) 50mm dia G.I Union	266.30	Nos	532.60
	4.00	c) 50mm dia G.I Hex Nipple	87.00	Nos	348.00
	2.00	d) 50mm dia Foot Valve	461.00	Nos	922.00
	4.00	e) 40mm dia G.I Bend	87.00	Nos	348.00
	4.00	f) 40mm dia G.I Union	197.50	Nos	790.00
	4.00	g) 40mm dia G.I Tee	110.20	Nos	440.80
	4.00	h) 50mm dia GM Non-Return Valve (TWAD SR 2022 - 2023, P-45)	2498.00	Nos	9992.00
	2.00	i) 50mm dia GM gate valve	1241.00	Nos	2482.00
	2.00	j) 32mm dia G.I Union	127.50	Nos	255.00
	2.00	k) 32mm dia G.I Hex Nipple	58.10	Nos	116.20
	6.00	l) 32mm dia GM Gate valve	760.00	Nos	4560.00
	2.00	m) 25mm dia GM Gate valve	592.00	Nos	1184.00
		External Electrical arrangements			
1.0	11.60	Supplying and fixing of MS angle of size 50 x 50 x 5 mm MS angle to hold LTUG cable in OH portion etc., all complete	57.60	Kg	668.16
2.0		Supplying of 50 mm dia GI pipe (Above Ground Level) approved quality			
	12.00	a) 50 mm dia GI pipe (Above Ground Level)	209.00	Rmt	2508.00
	4.00	b) 50 mm dia GI Bend (PWD SR P-51/ 23-24)	116.30	Nos.	465.20
3.0	36.00	Run of 4 Wires of 4 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.	407.08	Rmt	14654.88
4.0		Supplying of 3.5 core of 50 sqmm PVC armoured ALTUG cable including cost of all materials etc all complete complying with relevant standard specifications and as directed by the departmental officers.			



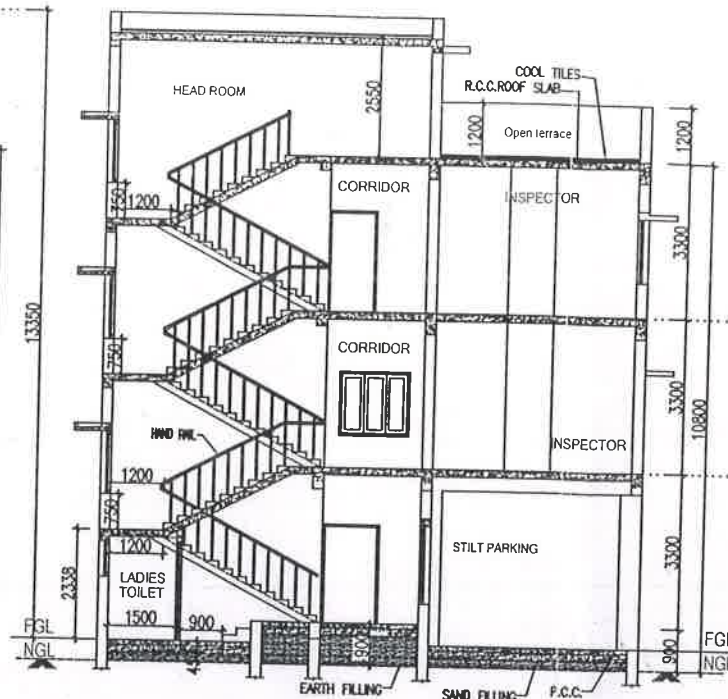
	Qty.	Description	Rate	Unit	Amount <sup>13</sup>
	35.00	a) Above Ground Level (SD 124)	314.70	Rmt	11014.50
5.0	2.00	Supply and fixing of Brass cable gland suitable for 3.5 core 50 sqmm PVC armoured ALTUG cable (SD 188)	439.00	Nos	878.00
6.0	2.00	Supply and providing cable end termination of 3 1/2 x 50 sqmm PVC LTUG Aluminium armoured cable with necessary aluminium cable sockets by crimping etc. with electrical connection complete. (SD 237)	346.00	Nos	692.00
7.0	1.00	Supplying and fixing of 3 Nos. of 100 amps 500 volts grade porcelain fuse unit on suitable teakwood plank varnished to be fixed on the top of pole/EB street pole with necessary clamps including cost of materials etc., all complete.	1627.62	No.	1627.62
8.0	35.00	Labour charges for laying of 3.5 core 50 sqmm PVC armoured ALTUG Cable a) Above Ground Level (TWAD SR 2022 - 2023)	106.00	Rmt	3710.00
9.0	20.00	Supplying and fixing of single pole 6 Amps to 32 Amps MCB. PWD SR - 2023-24 / P-141	128.00	Nos	2560.00
10.0	56.00	Supplying and fixing of 4' 18 W LED Tube light fittings etc.,	704.13	Nos	39431.28
11.0	6.00	Supplying and fixing of 12 w LED Bulb etc., all complete.	170.00	Nos	1020.00
12.0		Supplying and fixing of Following watt LED Lamp etc., all complete.			
	47.00	a) 9W LED Bulb - PWD SR 2023-24	135.00	Nos	6345.00
13.0	6.00	Supplying and fixing of BulkHead Fittings suitable for 12 w LED Bulb etc., all complete.	529.20	Nos	3175.20
14.0	6.00	Supply and fixing of 25w LED street light fitting including all labour charges for LED street light fittings etc.all complete	3458.67	Nos	20752.02
15.0	84.00	Run off mains with 2 wires of 1.5 Sqmm copper PVC insulated unsheathed single core 1.1KV cable wire continuous earth by means of 1.5 Sqmm copper PVC insulated unsheathed single core 1.1 KV grade cable in fully concealed 19 mm / 20 mm dia rigid PVC conduit pipe heavy duty with ISI mark including cost of all materials, specials, etc., all complete.	214.90	Rmt.	18051.60
16.0	2.00	Supplying & fixing of 500 watt Focus light fittings etc., all complete.	800.00	Nos	1600.00
17.0	1.00	Supplying and fixing of 250 watt sodium vapour fitting and lamp etc., all complete. PWD SR 2023 - 2024 / P-140	3729.00	No	3729.00
18.0	2.00	Supplying & fixing of 12" dome light fittings and 9watts led bulb etc., all complete.	1000.00	Nos	2000.00
19.0	4.00	Supplying & fixing of spot light fittings and led bulb etc., all complete.	575.00	Nos	2300.00

Sl. No.	Qty.	Description	Rate	Unit	Amount
20.0	1.00	Supply and fixing of 900x700x250 mm tk eb service panel for 415 volt,3 phase, 4 wire 50 hz power distribution system.the panel shall be indoor wall mounting type out of 16swg sheet steel complete with all accessories. in comng 1no 300amps bus bar compartment and separate energy meter compartment outgoing 3no 300amps fuse with base including all necessary connection etc..	14950.00	No	14950.00
		Numbering and Lettering			
1.0		Supplying and fixing of following size aluminium die casting lettering and numbering material and labour charges.			
	21.00	a) 30cm Letters (12")	1200.00	Nos.	25200.00
	12.00	b) 23cm (9") letter (PWD SR 23-24)	1179.00	Nos.	14148.00
	1.00	c) 60cm TNPHC Logo (24")	4000.00	No.	4000.00
	1.00	d) 45cm Round Police Logo (18")	4000.00	No.	4000.00
	1.21	e) Plastic name board (12"x4")	6201.55	Sq.m	7503.88
	71.80	Supplying and laying Granite slab flooring in cm 1:3,20mm tk using sathali steel/ grey for Lobby steps	2299.44	Sqm	165099.79
	1430.90	Providing one coat of Wallputty for new plastered surface	95.19	Sqm	136207.37
		<b>Total</b>			<b>17040445.51</b>

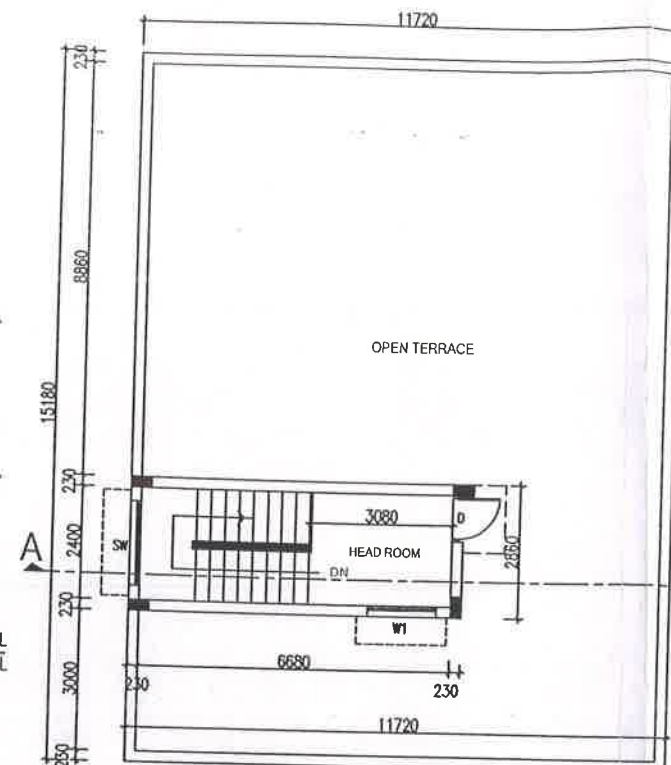




FRONT ELEVATION



SECTION AA'



TERRACE FLOOR PLAN

JOINERY DETAIL		
M0 DOOR	1800X2100	T.W.FRAMED DOOR WITH T.W. DOUBLE LEAF PANELLED DOOR SHUTTERS WITH BRASS FITTINGS
R0 DOOR	1200X2100	T.W.FRAMED DOOR WITH T.W. PANELLED DOOR SHUTTERS WITH BRASS FITTINGS
D DOOR	1000X2100	R.C.C.FRAMED DOOR WITH ENR SHUTTER
D1 DOOR (LOCK UP)	1000X2100	DOORS WITH IRON BARS & MS FLATS
D2 DOOR	900X2100	R.C.C.FRAMED DOOR WITH ENR SHUTTERS
D3 DOOR (TOILET)	750X2100	P.V.C.DOOR WITH PVC FRAME
D4 DOOR	750X1350	P.V.C.DOOR WITH PVC FRAME
W0 WINDOW	1800X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS
W WINDOW	1350X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS
W1 WINDOW	1500X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS
SLIDING WINDOW	1050X1350	UPVC WINDOW WITH SLIDING SHUTTERS
SW STAIRCASE WINDOW	1800X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS 750 SILL FROM LANDING (STAIRCASE LANDING)
V0 VENTILATOR (PRO. & RECORD)	350X 600	VENTILATOR WITH IRON BARS AND MS FLAT WITH EXPANDED METAL WELDED ON TO IT
V VENTILATOR (LOCK) ROOF LVL	350X 600	VENTILATOR WITH IRON BARS AND MS FLAT WITH EXPANDED METAL WELDED ON TO IT
V1 VENTILATOR (TO)	750X 600	STEEL FRAMED GLAZED VENTILATOR WITH MS GRILLS
V2 VENTILATOR (TO)	900X 600	STEEL FRAMED GLAZED VENTILATOR WITH MS GRILLS

REVISIONS	
REVISION NO. 1	THIS TYPE DESIGN SUPERSEDES PREVIOUS APPROVED DD.No./358/18 - DL - 26/12/18
	THE FOLLOWING REVISIONS ARE MADE IN DD.No./358/19
	1. THIS DRAWING IS A MIRROR IMAGE UNIT

### SPECIFICATION

- FOUNDATION & BASEMENT:** R.C.C COLUMN/BRICK WORK IN C.M 1:5  
**SUPERSTRUCTURE:** BRICK WORK IN C.M 1:6  
**ROOF:** RCC SLAB WITH SUITABLE REINFORCEMENT AND PROTECTED WITH COOL TILES-SLOPE 1:60  
**FLOORING:** MORY VITRIFIED TILES FOR ALL ROOMS GRANITE TILES FOR VERANDAH, CORRIDOR, LOBBY & PASSAGE  
**EUROCON TILES** FOR RAMP, STEPS, PORTICO & STAIRCASE, ANTI-SKID CERAMIC TILE FLOORING FOR BATH & WC WITH GLAZED TILES TO THE HEIGHT OF 1.5M  
**CUPBOARD SLAB PAINTING:** IN RCC/CUDA/PPH  
**PAINTING:** LIME WHITE WASH 3 COATS FOR CEILING  
 INNER WALL-RED 2 COATS OVER  
 1 COAT PRIMER WHITE CEMENT  
 OUTER WALL-PLASTIC EMULSION PAINT TWO COATS OVER 1 COAT PRIMER  
**JOINERIES:** ENTRANCE MAIN DOOR-TEAK WOOD FRAME WITH TEAK WOOD SHUTTER AND MELAMINE POLISH  
 INNER DOORS-RCC FRAME WITH ENR SHUTTERS  
 SOLID PVC DOOR FRAME AND SHUTTER FOR TOILETS  
 WINDOW-STEEL/ALUMINIUM/  
 : P.V.C / HALF TURN C.P.TAP

- NOTE**  
 1. STAIRCASE :- TREAD-300 MM, RISER-150MM (21NOS) FOR GF TO FF  
 RISER-150(21NOS) FOR FF TO SF  
 2. PLINTH HEIGHT 900 MM FROM FGL  
 3. SILL LEVEL 750 MM FROM FL  
 4. LINTEL HEIGHT 2100 MM FROM FLOOR LEVEL  
 5. ROOF HEIGHT 3300 MM (INCLUDE SLAB THK.)  
 6. HEIGHT OF PARAPET WALL IN BALCONY, TERRACE ETC. IS 1200 MM  
 7. WIDTH OF SUNSHADE IS 600 MM  
 8. 20CM DEPRESSION SHOULD BE GIVEN FOR BATH & TOILET PORTION  
 9. ALL DIMENSIONS ARE IN MM OTHERWISE SPECIFICALLY STATED

### AREA STATEMENT

STILT FLOOR	50.4
BUILDING AREA	74.70
PARKING AREA	103.20
TOTAL	177.90
FIRST FLOOR	177.90
SECOND FLOOR	177.90
TOTAL	355.80
TOTAL AREA	533.70
HEAD ROOM(hull area)	20.42

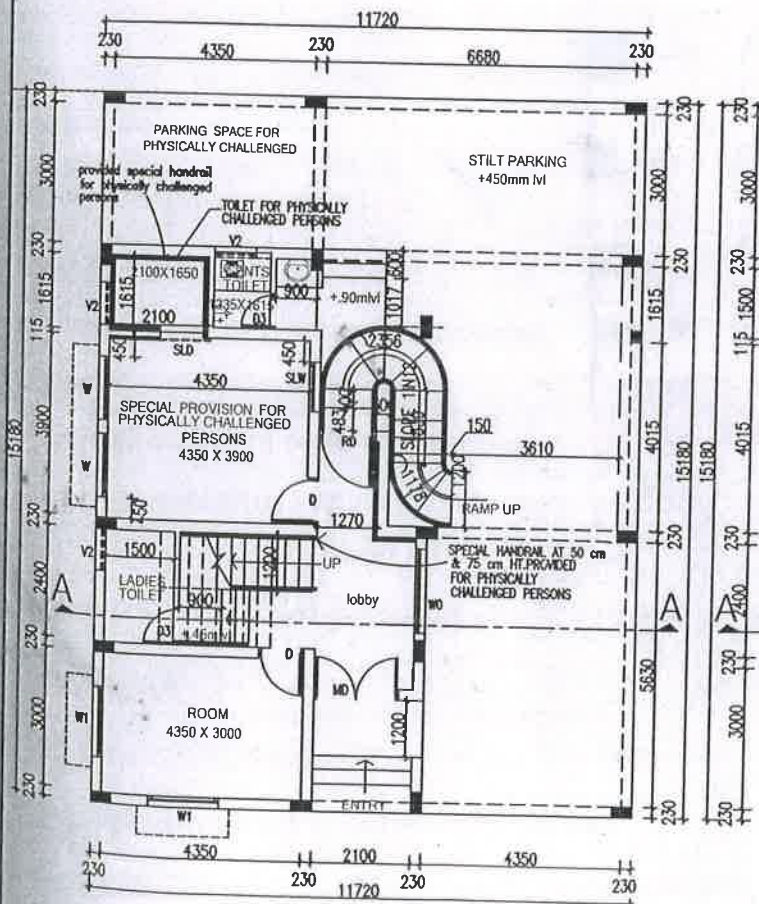
### TALUK POLICE STATION

PROPOSED URBAN POLICE STATION (STILT+2)  
 S.F. NO : 243/3  
 VILLAGE : NACHIYARKOVAL  
 TOWN / TALUK : KUMBAKONAM  
 DISTRICT : THANJAVUR

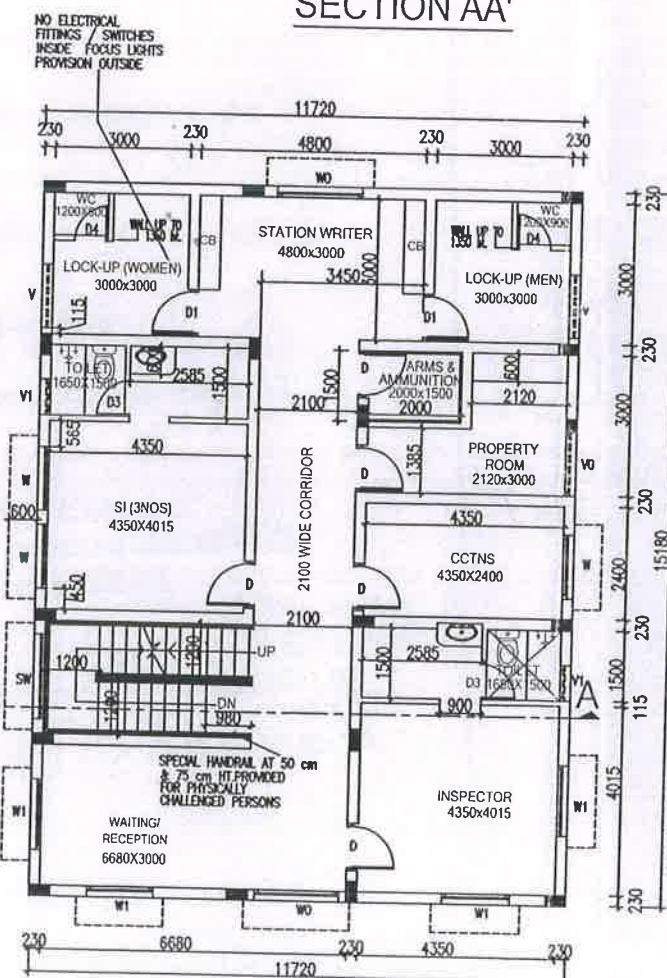
STILT FLOOR PLAN, FIRST & SECOND FLOOR PLAN  
 FRONT ELEVATION, SECTION AA' & TERRACE FLOOR PLAN

SCALE: 1:100	DRAWING NO. DD/ 358/19	SHEET NO. 01/01
DATE:		
Sd., ..... DL5/4/19 Asst.Architect	Sd., ..... DL5/4/19 AEE/ ARCH. SEC.	(PA TO SE)
Sd., ..... DL5/4/19 EE/ PLANNING	Sd., ..... DL5/4/19 Supdt. Engineer.	Sd., ..... DL10/4/19 Chief Engineer.

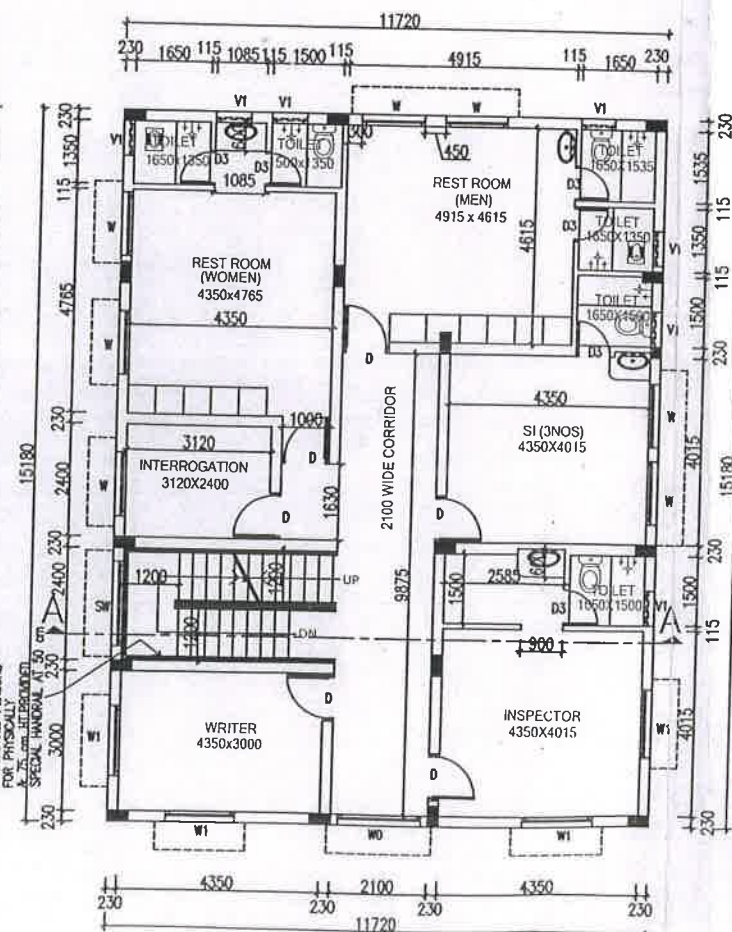
TAMILNADU POLICE HOUSING CORPORATION LTD.  
 NO.132, EV.R.SALAI, KILPAUK, CHENNAI-600 010.



STILT FLOOR PLAN



FIRST FLOOR PLAN

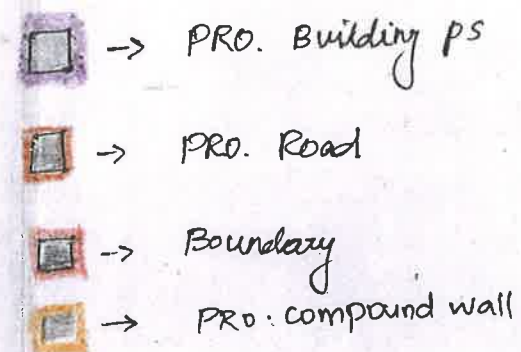


SECOND FLOOR PLAN

EXECUTIVE ENGINEER  
 TNPSC LTD., TIRUCHY DIVISION

SUPERINTENDING ENGINEER  
 TNPSC Ltd





29/5/23  
SUPERINTENDING ENGINEER  
TNPSC Ltd  
SOUTH CIRCLE,  
MADURAI-14.

JE/ply


Om  
29/12/23  
AEE (pig)

27  
CENTOPIA

**Chief Engineer**  
**Tamilnadu Police Housing Corporation Ltd.**  
**Chennai - 600 040**

BLOCK No.	OTRS. TYPE	No. OF BLOCKS	No. OF FLOORS	DRL. No.	AREA Sqm	SITE AREA
1	POLICE STATION	1	5 LITE	DD/ 3582	59.18	4300.00 Sqm
						PRODULT UP AREA : 554.12 Sqm
						EXT LULT UP AREA : 618.20 Sqm
						TOTAL : 1201.85 Sqm
						PLGT COVERAGE : 135.60 F.S.I : 135.00
TOTAL					441.60	PROPOSED <input type="checkbox"/> SITE <input type="checkbox"/> ROAD <input type="checkbox"/>

NACHIYAR KOIL	PHASE : X
PROPOSED POLICE STATION IN	
SURVEY No.	2433
VILLAGE	NACHIYAR KOIL
TOWNTALUK	KOMBAKONAM
DISTRICT	TANJORE

<p>3/10</p> <p>Drughtmaster G. III</p> <p>Supr. Engineer 7/12</p> <p>11 600 Scale</p> <p>11 75.52 Dep. No.</p>	<p>Architect</p> <p>Chief Engineer</p> <p>  </p>	<p>Exe. Engineer 7/12/12</p> <p>Chairman &amp; M.B.I.</p> <p> <b>TAMILNADU POLICE HOUSING CORPORATION LIMITED</b> </p> <p>4, 1727/5 ROAD</p> <p>CHENNAI 600 014</p>
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EXECUTIVE ENGINEER  
TNPSC LTD., TIRUCHY DIVISION

27-05-2023