

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/3695/2021

Dated:05.06.2023

To

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

Sir,

Sub: TNPHC- Construction of new Town Police Station building at Paramakudi in Ramanathapuram District - Feasibility report and detailed estimate proposal-Sent-Regarding.

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

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With referenc to the letter 1st cited, the Construction of new Town Police Station building at Paramakudi in Ramanathapuram District to a value of **Rs. 212.00 Lakhs** is comes under the ^{Announcement of} Hon'ble Chief Minister of Tamil Nadu as announcement No.36.

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

3) Accordingly, the detailed estimate for the Construction of new Town Police Station building at Paramakudi in Ramanathapuram District is prepared adopting PWD schedule of rates 2023-24, Electrical SD data for the rates for the year of 2023-2024 and TWAD schedule of rates for the year of 2022 - 23 and 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 new Town Police Station building at Paramakudi in Ramanathapuram District	212.00	❖ The land is identified in T.S.No. 6, 7,8,9,10 & 11, Ward No- G, Block No.7, Paramakudi Town in Ramanathapuram District having an extent of 3067 Sq.m

			<ul style="list-style-type: none"> ❖ The land belongs to Police Department. ❖ The Site is Low lying, hence filling is required. ❖ It is feasible to construct the Town Police Station building at Paramakudi in Ramanathapuram District, only after dismantling the existing old Police Station building.
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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

of work : Construction of New Police Station Building with Development works at
Paramakudi in Ramanathapuram District

GENERAL ABSTRACT

S.No	Qty	Description	Rate	Amount
		BUILDING WORKS		
1	1.00	Construction of 1No of Urban Police station building	11278946.99	11278946.99
		SUB TOTAL - I		11278946.99
		DEVELOPMENT WORKS		
2	1.00	Plinth Protection	151409.55	151409.55
3	1.00	Sump	238953.04	238953.04
4	1.00	Sullage Drain	117345.48	117345.48
5	1.00	Strom water Drain	119675.08	119675.08
6	1.00	Over Head Tank (1 Nos)	63112.49	63112.49
7	1.00	CC.Road	398165.40	398165.40
8	1.00	Septic tank	249145.66	249145.66
9	1.00	External Electrical	61697.97	61697.97
10	1.00	Borewell and External Water Supply	626437.50	626437.50
11	1.00	Compound wall	1582759.51	1582759.51
12	1.00	Culvert & retaining wall	187706.21	187706.21
		SUB TOTAL - II		15075354.88
13		Soil investigation	LS	100000.00
14		Drinking water supply	LS	315000.00
15		Provision for Filling Lowlying area		300000.00
16		Provision for Solar arrangements	LS	400000.00
		SUB TOTAL - III		16190354.88
17		GST at 18.0% (GST at 9% + CGST 9%)		2914263.88
		SUB TOTAL - IV		19104618.76
18		Labour Welfare Fund @ 1%	As Per PWD Norms	161903.55
19		Contigancies and Petty Supervision Charges @ 1%	As Per PWD Norms	161903.55

S.No	Qty	Description	Rate	Amount
20		Supervision Charges @ 5%	As Per PWD Norms	809517.74
		SUB TOTAL - IV		2023794.60
21		Provision for Advertisement Charges	LS	100000.00
22		Provision for Payment to Local Bodies	LS	300000.00
23		Provision for EB Deposit	LS	200000.00
24		Cost of Foundation Stone Laying and Inaugural Function	As Per PWD Norms	24000.00
25		Structural Design and Constultancy Charges	LS	100000.00
26		Planning permission	LS	138000.00
27		Provision for Front Elevation	LS	100000.00
		GRAND TOTAL		21199943.60
			Say Rs. 212.00 Lakhs	


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

Name of work : Construction of New Police Station Building with Development works at Paramakudi in Ramanathapuram District

Item No	Qty	Description of Work	Unit	Rate	Amount
1.1	436.60	Earth work excavation (including refilling) a. 0 to 2 mt.	Cum	237.08	103509.13
1.5	68.70	Earth work excavation for Open foundation(excluding refilling) a. 0 to 2 mt.	Cum	112.05	7697.84
1.6	22.50	Earth work excavation for Open foundation for drains (excluding refilling) width upto 1.25 m a. 0 to 2 mt.	Cum	168.08	3781.80
1.8	21.80	Earth work excavation for Open foundation in Soft disintegrated rock(excluding refilling) a. 0 to 2 mt.	Cum	166.90	3638.42
2.1	60.10	Filling sand	Cum	1856.18	111556.42
2.6	4.20	Supply and filling of 40 mm HBSJ	Cum	1689.21	7094.68
2.7	4.20	Supply and filling of 20 mm HBSJ	Cum	2108.41	8855.32
3.1	89.30	C.C.1:5:10 for Foundation & Basement	Cum	5213.08	465528.04
3.2	17.60	P.C.C. 1:2:4 for Foundation & Basement and other similar works	Cum	6764.54	119055.90
3.3	4.20	P.C.C. 1:8:16 using 20 mm broken brick jelly	Cum.	4213.61	17697.16
3.9.1	16.30	Plain cement concrete 1:3:6(One of cement thre sand of crushed stone sand)	Cum.	6112.22	99629.19
4.1	118.30	Providing and laying in position, Standardized Concrete Mix M-20 Grade in accordance with IS: 456-2000, using 20mm and down graded hardbroken stone jelly for all RCC items of works	Cum	8268.60	978175.38
6.5	93.80	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")	Cum	6639.19	622756.02
7.2	12.50	Supply and fixing of Bituminous filler pad, 20 mm tk. for expansion joint	sqm	719.00	8987.50

Item No	Qty	Description of Work	Unit	Rate	Amount
8.1		Providing and laying in position, Standardized Concrete Mix M-20 Grade in accordance with IS: 456-2000, using 20mm and down graded hardbroken stone jelly for all RCC items of works			
	58.30	a) in Ground floor	Cum	8388.45	489046.64
	49.70	b. In First floor	Cum	8624.55	428640.14
	7.90	c. In Second floor	Cum	8860.65	69999.14
9.5	62.50	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")	Cum	6645.11	415319.38
	45.40	b. In First Floor	Cum	6804.31	308915.67
	21.50	c. In Second Floor	Cum	6964.01	149726.22
10.5	98.10	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.)	Sqm	803.58	78831.20
	267.90	b. In Ground Floor	Sqm	812.26	217604.45
	119.60	c. In First Floor	Sqm	829.77	99240.49
	16.80	d. In Second Floor	Sqm	847.23	14233.46
11.5	22.70	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.)	Sqm.	553.22	12558.09
	29.90	b. In First Floor	Sqm	564.36	16874.36
13.1	54.80	Filling with Excavated Earth	Cum	38.95	2134.46
14.1		Providing precast concrete slab for cupboard wardrobes shelves, cover slab for chambers, Baffle walls side slabs of boxing around windows and other similar works in Standardized concrete mix M20 Grade in F&B			
	33.90	a. In Ground floor	Sqm	1486.74	50400.49

Item No	Qty	Description of Work	Unit	Rate	Amount
	43.50	b. In first floor	Sqm	1491.51	64880.69
14.II	10.90	Providing precast concrete slab for cupboard wardrobes shelves, cover slab for chambers, Baffle walls side slabs of boxing around windows and other similar works in Standardized concrete mix M20 Grade Precast cupboard slab 40 mm tk.	Sqm	1635.52	17827.17
		a. In Foundation & basement			
21.2	0.063	S & F of Teak wood a)Teak wood over 2m and below 2m length	Cum	125290.00	7893.27
	0.041	b)Teak wood below 2m length	Cum	113090.00	4636.69
23.3	17.00	S&F of Magnetic door catches	Each	52.00	884.00
24.0	2406.60	Manufacturing & supply of steel windows (Weight basis)	Kg	69.60	167499.36
25.0	96.00	M.S.Holdfast	Each	9.60	921.60
26.0	16.40	Flooring in C.C.1:5:10	Cum	5213.08	85494.51
28.0	38.90	Floor plastering in C.M. 1:4, 20 mm tk.	Sqm	514.18	20001.60
30.0	34.70	Ellispattern	Sqm	454.35	15765.95
31.0	27.80	Weathering Course with concrete broken brick jelly 20mm gauge in pure burnt stone lime slaked and screened	Cum	3689.88	102578.66
33.0	3211.10	Plastering in C.M. 1:5, 12 mm tk.	Sqm	253.17	812954.19
34.0	123.85	Plastering in C.M. 1:4, 12 mm tk.	Sqm	259.25	32108.11
35.0	532.60	Spl. Ceiling plastering in C.M. 1:3, 10 mm tk.	Sqm	289.11	153979.99
36.0	700.70	Cement mortar Border in C.M. 1:5, 12 mm tk. a. 150 mm wide	Rmt	80.72	56560.50
	588.60	b. 75 mm wide	Rmt	52.55	30930.93
	105.80	c. 50 mm wide	Rmt	39.11	4137.84
37.1	508.70	White washing 3 coats (slaked)	Sqm	45.28	23033.94
39.0	1788.60	M.s Grills	Kg	69.60	124486.56
40.0	86.30	Painting - New "wood work"	Sqm	233.74	20171.76
41.0	247.40	Painting - New "iron work"	Sqm	138.35	34227.79
47.0	14.00	S & F Alu Towel rail 75 cm long	Each	95.00	1330.00

Item No	Qty	Description of Work	Unit	Rate	Amount
48.0	14.00	S & F 5 pin Coat stand	Each	55.00	770.00
49.0	70.00	S & F chromium plated 8 guage Picture Hook	Each	1.50	105.00
50.2	20.40	Providing precast Kerb stone in C.C. 1:3:6, 450 x 300 x 150 mm	Sqm	280.44	5720.98
50.3	10.00	Supply and planting avenue trees	Each	377.49	3774.90
50.4	10.00	Providing Tree guard	Each	884.89	8848.90
50.5	1.00	Supplying, Fabricating and erection of M.S Scheme Name board	Each	19362.95	19362.95
		Water Supply Arrangements			
52.0	80.00	PVC Water supply (ASTM) Pipe a. 32 mm dia	Rmt	254.72	20377.60
	117.00	b. 25 mm dia	Rmt	236.42	27661.14
		Sanitary Arrangements			
53.3	4.00	C.I. Steps (5 kg)	Each	30.00	120.00
57.1	7.00	S & F of EWC superior variety (White)	Each	7114.20	49799.40
59.5	12.00	S & F of 150 mm x 100 mm SW Gully trap	Each	1995.93	23951.16
60.0	17.00	PVC Nahani trap (4way/2way)	Each	160.00	2720.00
61.0		PVC Non Pressure pipe of SN8 SDR 34 (S 16.5) as per IS 15328/2003			
	36.00	a. 110 mm UPVC Non Pressure pipe	Rmt	484.05	17425.80
	30.00	b. 160 mm UPVC Non Pressure pipe	Rmt	808.31	24249.30
		PVC Specials as per IS 10124/1982 Part II			
	2.00	a. 110 mm dia PVC bend (TWAD SR 21-22)p.no 27	Nos	175.20	350.40
	2.00	b. 160 mm dia PVC bend (TWAD SR 21-22)p.no 27	Nos	560.20	1120.40
		PVC Equal Tee as per BIS 7834/1975			
	2.00	a. 110 mm dia PVC Equal tee (TWAD SR 21-22) p.no 27	Nos	197.50	395.00
	2.00	b. 160 mm dia PVC Equal tee (TWAD SR 20-21) p.no 27	Nos	371.80	743.60
61.1	21.00	Stoneware pipe di (loose jointing) a. 100 mm dia S.W. pipe	Rmt	570.76	11985.96
62.2	2.00	Stoneware Tee a. 100mm dia	Each	131.00	262.00

Item	Qty	Description of Work	Unit	Rate	Amount
		Electrical Arrangements			
69.0	14.00	15 Amp. Power plug	Each	150.00	2100.00
72.0	24.00	Box type Fibre Fan hook	Each	33.90	813.60
73.1	2.00	6 way - D.B.	Each	4248.34	8496.68
74.0	24.00	Charges for fixing of "Fan"	Each	602.50	14460.00
76.0	10.00	8 SWG wire	Rmt	27.13	271.30
77.0	2.00	supplying, fixing, connecting and commissioning of 20 AMPS Metal clad socket for Air Conditioner (Superior variety) combined with 2 Eletrical SR 2023-2024 Pg.NO. 64 item no SD140	Each	1879.00	3758.00
77.3	21.00	S&F of TV/Telephone line Socket	Each	77.01	1617.21
77.4	294.00	S&F of 20mm dia PVC pipe for TV/Telephone line	Rmt	88.71	26080.74
78.0	1.00	Earthing Station IS3043 (Type I)	Each	2997.60	2997.60
86.0	237.60	Anti termite treatment	Sqm	33.90	8054.64
		ANNEXURE			
2.1.1	480.40	Supplying & filling basement with gravel in layers of 150mm	Cum	378.15	181663.26
18.1	358.80	Form work using M.S.Sheet a) For column footings, Plinth beam, Grade beam, Raft beam, Raft slab etc.,	Sqm	848.08	304291.10
	822.45	b) Plain surfaces such as roof slab, floor slab, beams, lintels, loft, sill slab, stair case waist, portico slab and other similar works	Sqm	946.62	778547.62
	268.10	c) For square and rectangular columns and small quantities	Sqm	1135.94	304545.51
	106.00	d.Vertical wall	Sqm	1041.28	110375.68
	12.90	e) curved surface	Sqm	1419.93	18317.10
21.5.2	16.80	S & F of PVC Door Frame with UPVC Shutters	Sqm	3325.00	55860.00
21.6		R.C.C.Door frames of size 100 x 75mm with one edge grooves size 't' x 20 mm using M20 grade (with out vibrating charges)			
	7.00	a) 1200x2100mm	Each	3331.29	23319.03
	2.00	B). 1000 x 2100 mm	Each	2804.72	5609.44

Item No	Qty	Description of Work	Unit	Rate	Amount
	6.00	C) 900x2100mm Supplying and fixing of Best Indian T.W. single leaf door shutters using 9mm thick phenol bonded BWR grade plywood as per IS 303-1989 (General) with IS 5539-1969 (for preservative treatment) and IS 848-1974 (for adhesives) with relevant IS specifications and its latest amendment for shutters with 75mm x 37.50 mm teak wood styles and 3 Nos. of 150 mm x 37.50 mm TW rails (top, bottom and lock rails) using the above panel including labour charges and cost of furniture fittings as per schedule 'E' and as directed by the departmental officers. (The quality of BWR plywood should be got approved from the Executive	Each	2782.49	16694.94
	16.00	a) 1200 x 2100 mm (single leaf)	sqm	4142.16	66274.56
	3.80	B. 1000 x 2100 mm (single leaf)	Sqm	3513.76	13352.29
	10.10	C. 900x2100mm (Single Leaf)	Sqm	3632.18	36685.02
		MS Lock up Door			
	2.00	A) D2 Door (1000x2100MM)	each	9385.85	18771.70
		MS Frame Ventilator			
	1.70	A) V1 Ventilator (1.35x0.60)	Sqm	4297.06	7305.00
22.3.3	41.30	Providing Teak wood leaf shutters for cupboard / ward ropes with 9mm tk phenol bonded BWR grade plywood	Sqm	4258.82	175889.27
23.2.1	50.90	4mm thick pin headed glass panels with Aluminium beedings	Sqm	835.70	42537.13
29.8	126.90	Glazed tiles using Grout (Tile Joint Filler)	Sqm	1377.46	174799.67
29.9	40.10	Floor ceramic tiles (Anti-skid) using Grout (Tile Joint Filler)	Sqm	1212.26	48611.63
32.1.1	282.80	FINISHING TOP OF ROOF WITH ONE COURSE OF PRESSED TILES OVER A BED OF C.M(1:3), 12mmTHICK MIXED WITH WATER PROOF COMPOUND	Sqm	1193.89	337632.09
35.1	26.70	Plastering in CM 1:3 in 12mm tk (Mixed with water proof compound)	Sqm	277.94	7421.00

Item	Qty	Description of Work	Unit	Rate	Amount
38.7	1759.90	Painting two coats with Exterior Emulsion Paint of first class quality paint of approved colour and shade over a priming coat on cement plastered / concrete wall	Sqm	232.98	410021.50
44.2.a	4.00	a)Earth work for providing Rain water harvesting pit	Each	2255.66	9022.64
44.2.b	12.00	b)Augering 30cm dia bore hole	Rmt	515.69	6188.28
44.6	65.50	PVC SWR 110 mm dia with ISI mark type- A for rain water down fall pipe	Rmt	343.11	22473.71
50.6	33.10	Precast slab 50 mm tk.in C.C. 1:3:6 mixed with fibre	Sqm	424.90	14064.19
52.4	31.00	Supplying laying fixing and jointing the following PVC pipes as per ASTM D-1785 of schedule 40 threaded PVC water supply ASTM pipe(fully consealed in walls) with necessary PVC/GI specials c. 20mm dia	Rmt	233.64	7242.84
53.4	1.00	S & F of CI Manhole cover of size 60 X 60cm (50kgs)	Each	1864.00	1864.00
53.5	9.00	Wash Hand Basin of size 550 x 400 mm	Each	3337.32	30035.88
54.1.1	10.00	S & F of Long Body Tap of 15mm Dia	Each	488.00	4880.00
54.2.1	12.00	S & F of Short Body Tap of 15mm Dia	Each	440.00	5280.00
56.3	4.00	S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm - in G.F.	Each	3332.26	13329.04
58.3	60.40	PVC SWR pipe (soil line) with ISI mark - type 'A' a. 110 mm dia	Rmt	717.55	43340.02
	47.60	b. 75mm dia	Rmt	600.25	28571.90
58.4	18.00	Supplying, Laying & Concealing the 50mm dia PVC (SWR) pipe with ISI mark type - 'B' with relevant specials.	Rmt	115.30	2075.40
58.5	1.00	PVC(SWR) pipe with ISI mark - type 'A' for Ventilating shaft with cowl	Each	454.00	454.00
64.1	67.00	Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990. a. Light point with ceiling rose	Point	1692.10	113370.70
	38.00	b. Light point without ceiling rose	Point	1695.10	64413.80
	5.00	c. Calling bell point with Buzzer/Calling bell	Point	1732.10	8660.50

Item No	Qty	Description of Work	Unit	Rate	Amount
65.1	24.00	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.	Point	1767.10	42410.40
66.1	4.00	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.	Point	3176.20	12704.80
67.1	24.00	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.	Point	869.50	20868.00
68.2	48.00	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.	Point	1174.40	56371.20
	52.00	Supplying and fixing of 18W LED Tube lights with necessary fittings including cost of materials labour charges for fixing including necessary connections etc.. PWD 23-24	Each	707.00	36764.00
	32.00	Supplying and fixing of 9w LED Bulb (Superior variety) including cost of materials labour charges for fixing including necessary etc PWD 23-24 SRP-121	Each	135.00	4320.00
	6.00	Supplying and fixing of 15 w LED bulb (Superior variety) including cost of materials labour charges for fixing including necessary etc PWD 23-24 SRP-121	Each	270.00	1620.00
	6.00	Supplying and fixing of water tight bulk head fittings with guard suitable for 15 W LED lamp including necessary etc., , pwd SR 2023-2024 Pg.NO. 123 item no. 24	Each	602.50	3615.00
	6.00	Supplying and fixing of 25 W LED street light fittings including cost of materials labour charges for fixing including necessary etc.,, pwd SR 2023-2024 Pg.NO. 122 item no. 18	Each	3459.00	20754.00

Item No	Qty	Description of Work	Unit	Rate	Amount
75.1.2	24.00	Supply and delivery of fan with electronic regulator (ISI mark) a) 48" (1200mm) sweep	Each	1552.00	37248.00
77.7	126.00	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.	Rmt	232.90	29345.40
	20.00	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.	Rmt	501.08	10021.60
99.0		TW double leaves shutter of size with brass fittings			
	3.50	a.1800 x 2100mm (Double leaves) with Brass fittings	Sqm	6063.97	21223.90
344.2	9.00	S&F of Bevelled Edge Mirror 500x400X5.5mm	Each	398.30	3584.70
361.0	119.10	Supply and laying concrete tiles superior variety such as (Hindustan / Eurocon tiles etc.) for flooring in CM 1:3 (One of Cement and three of Crushed Stone Sand) 20mm thick, including fixing in position, cutting the tiles to the required size wherever necessary, pointing the joints with colour cement, finishing, curing etc complete and as directed by the	Sqm	1485.63	176938.53
367.0	8.60	Providing Wooden (Melamen door) Polish	Sqm	1438.54	12371.44
378.1	186.90	Vetrified Tiles Flooring (Ivory) 600x600x8mm	Sqm	1255.70	234690.33
29.5	112.80	S & F of Granite tile of size 2'x1', 10mm thick (Ruby red)	Sqm	1627.40	183570.72
	9.00	Providing PVC Tee with end cap	Nos	138.32	1244.88
799.0	1451.70	Painting the new walls with two coats of Plastic emulsion paint with special primer	Sqm	231.43	335966.93
	1451.70	wall Puty (two Coat)	sqm	95.19	138187.32
	27.102	43.1 : Supply & Fabrication of Mild steel / RTS grills (without cement slurry) for all sizes of rods.	sqm	88873.50	2408649.60
51.0	2.00	HDPE water tank 700 lit capacity with ISI mark	each	7035.00	14070.00

Item No	Qty	Description of Work	Unit	Rate	Amount
	15.30	Maunufacturing ,supplying and fixing of stainless steel Hand rails for staricase using 50mm dia 340L grade stainless steel pipe of 1.60m thick etc. SR PWD 2023-24page no. 62	Sqm	5536.00	84700.80
		Supplying and laying of following GI pipe B class with ISI mark for including cost of clamping and			
	8.00	a.) 80mm dia GI pipe TWAD SR 2022-23 Pg .no.40 (above G.L)	Rmt	693.60	5548.80
		Supplying and laying of following GI pipe B class with ISI mark for including cost of clamping and labour charges, fixing G I pipes, GI specials etc all complete.(Below Ground Level)			
	20.00	a.) 80mm dia GI pipe	Rmt	1984.40	39688.00
		Supplying and fixing of following dia GI specials			
	3.00	a.) 80 mm dia GI bend TWAD SR 2022-23 Pg .no.44	Nos	419.60	1258.80
	6.00	b) 80mm dia GI Coupling, TWAD SR 2020-21 Pg .no.40	Nos	293.00	1758.00
		Supplying of following LTUG Cable from meter board to fornt of the block and EB pole top for EB service connection etc...			
	20.00	a.) 3.5core 35sqmm LTUG cable PWD SR 2023-24 pg no. 133 item no part-V	Rmt	260.90	5218.00
		Supply & Fixing of crimping lugs			
	4.00	a.)Lugs suitable for 35sq mm UG cable PWD SR 2023-24 pg no. 139	nos	13.30	53.20
		Supply and fixing of cable gland suitable for PVC armored LTUG cable etc.			
	6.00	a.) Cable gland suitable for 35sq mm UG Cable PWD SR 2023-24 pg no. 134	nos	61.70	370.20
	1.00	Supplying and fixing 3 no 32Amps 500 volts grase/ well porcelin fuse unit on suitable teak wood plank to be fixed on the top of the EB poles with necessary clamps and including cost of materials etc...	nos	852.54	852.54

Item	Qty	Description of Work	Unit	Rate	Amount
	1.00	Supply and fixing of TNEB meter board suitable for 3 phase 63A service connection made up of Electrical SR - 2023-24 Pg No.60 SD-129	nos	4755.09	4755.09
	1.00	Supplying and fixing of 32 Amps triple pole main switch with fuse and neutral link on a suitable well varnished teak wood board including necessary interconnections and earth connections, cost of all materials etc. all complete	nos	2195.34	2195.34
		Water Supply Arrangements			
twad p.no 302	60.00	a) Upto 60 m depth ending below ground level	Rmt	1689.60	101376.00
	30.00	b) From 60 m Upto 90 m depth ending below ground floor	Rmt	1830.40	54912.00
		Reaming 140mm/150mm dia pilot bore to 300 mm dia bore			
twad p.no 302	60.00	a) Upto 60 m depth ending below ground level	Rmt	424.60	25476.00
	30.00	b) From 60 m Upto 90 m depth ending below ground floor	Rmt	451.00	13530.00
		Supply and delivery of PVC casing pipes suitable for 150mm dia bore well			
twad p 22	80.00	PVC. Pipe (C.S-Casing shallow depth) up to 80 m	Rmt	644.50	51560.00
	10.00	PVC. Pipe (C.M-Casing medium depth) 81 to 110 m	Rmt	841.50	8415.00
	90.00	labour charges for inseriting the pvc casing pipe assembly (with slot or without slots) in the drilled hole including joiting the pipes with pvc coupers with cement paste etc; complete supply and packing the annulr space with pebbles of size and quality as per approved by the executive engineers	Rmt	369.60	33264.00
twad p.no 305	8.00	Charges for developing the borewell with air compressor of 300 CFM capacity (minimum 8 hours) including transportation labour and fuel charges for compressor and conducting yeild test hv V notch method	hrs	2490.40	19923.20

Item No	Qty	Description of Work	Unit	Rate	Amount
	1.00	Supplying and fixing of 160mm dia PVC end cap for borewell of best approved quality with ISI mark conforming to IS specifications including cost of materials conveyance to site and labour charges for fixing in position etc., all complete PWD SR 2023-2024 pg.no.111	Nos	144.30	144.30
	1.00	Supply and delivery of clear water vertical wet type 2 HP submersible pumpset (Duty 50 lpm x 75 m) suitable for 150mm dia borewell conforming to IS 8034/2002 with 1 (As per 102 p of TWAD SR 2022-23)	Nos	39433.00	39433.00
	1.00	Labour charges for erection of submersible pumpset for borewell	No	11056.10	11056.10
	2.00	Supply and delivery of 2 HP Open well Submersible pump set (Duty 50 lpm x 60m) conforming to IS 14220 /2002 and as amended and BEE 3 Star Rated capable TWAD(2022-23 pg.no.105	Nos	41295.00	82590.00
	1.00	Supplying and Fixing of MS fabricated DOL 2 HP Panel control Board of wall mounting type with ISI mark with AmMetre, Volt Metre indicating lamps TWAD(2022-23) pg.no.114	Nos	14832.00	14832.00
	2.00	Supply & Fixing of Panel control board for 2HP Open well submersible motor with two level TWAD(2022-23-pg no.115	Nos	5641.00	11282.00
	2.00	Labour charges for 2 HP Openwell Submersible pumpset in borewell / Openwell including fixing and jointing submersible cable with TWAD(2022-23) pg.no.308	Nos	11056.10	22112.20
	1.00	Supply and fixing of MS bore well clamp set best aprooved quality including cost of bolts, nuts and conveyance etc TWAD(2022-23) pg.no.44	Nos	995.00	995.00

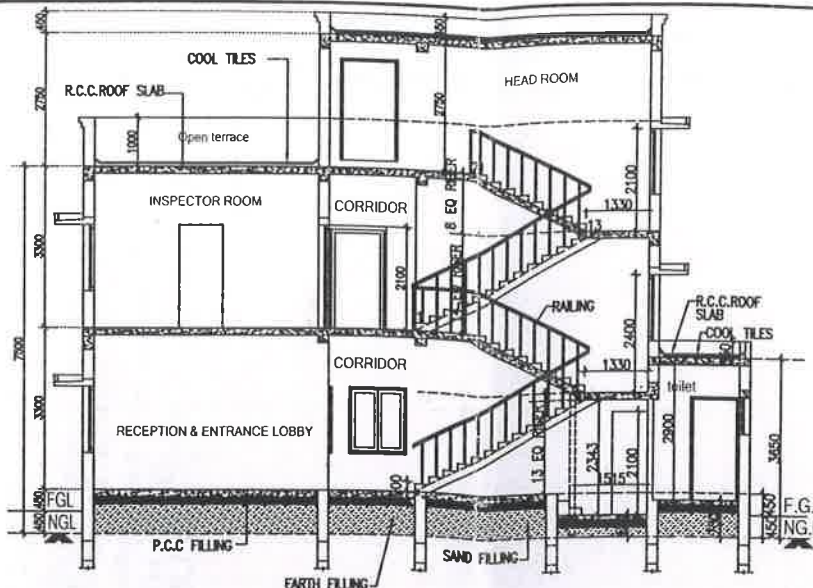
Item	Qty	Description of Work	Unit	Rate	Amount
	146.00	Supplying and fixing of 4 sqmm PVC 3 core Flat type Copper cable of approved quality with ISI mark of confirming ISI Specification including cost of Cable, Conveyance and fixing charges etc., Complete in all respects and as directed by the Departmental Officers. TWAD(2022-2023) pg.no.116	Rmt	194.00	28324.00
		Supply and fixing of UPVC Pipes of best approved quality, with ISI mark including cost and conveyance and fixing in position etc., all complete in all respects complying with relevant standard specification and as directed by the departmental officer (The brand and quality of the 'U' PVC pipe should be got approved from EE before use)			
	87.00	A) 32mm dia pipe PWD SR 2023-24 pg.No.113	Rmt	148.10	12884.70
pwd p50		Supplying and laying of GI pipe B class with ISI mark for Below ground level including cost of			
	33.00	A)32mm dia GI B class pipe	Rmt	151.40	4996.20
		Supplying and laying of GI pipe B class with ISI mark for above ground level including cost of clamping and labour charges, fixing G I pipes etc complete, all complete and as directed by the departmental officers			
	2.00	a) 80mm dia GI pipe twad p 328	Rmt	693.60	1387.20
	4.00	b) 50mm dia GI pipe	Rmt	209.00	836.00
	2.00	c) 80mm dia Elbow twad 2023-24pg .No. 44	nos	474.00	948.00
	3.00	d) 80mm dia Hex Nipple twad 2023-24pg .No. 44	nos	291.00	873.00
	2.00	e)80mm dia union twad 2023-24pg .No. 44	nos	881.70	1763.40
	2.00	f) 50mm x 32mm reducer twad 2023-24pg .No. 41	nos	137.00	274.00
	2.00	g) 50mm dia Elbow PWD SR 2023-24 pg .No. 51	nos	128.00	256.00
	3.00	h) 50mm dia Hex Nipple PWD SR 2023-24 pg .No. 53	nos	87.00	261.00
	3.00	i)50mm dia union PWD SR 2023-24 pg .No. 51	nos	266.30	798.90

Item No	Qty	Description of Work	Unit	Rate	Amount
	2.00	j) 50mm dia bend PWD SR 2023-24 pg .No. 51	nos	116.30	232.60
	1.00	k) 50mm Tee PWD SR 2023-24 pg .No. 51	nos	139.80	139.80
	3.00	l) 50mm dia coupling PWD SR 2023-24 pg .No. 52	nos	69.80	209.40
	2.00	m) 80mm dia Non return valve Twad SR 2023-24 pg .No. 45	nos	4013.00	8026.00
	1.00	n) 50mm dia Non return valve Twad SR 2023-24 pg .No. 52 1	nos	2498.00	2498.00
	2.00	o) 80mm dia Gun Metal Gate valve Twad -2020-21 pg .No. 41	nos	5431.50	10863.00
	1.00	p) 50mm dia Gun Metal Gate valve PWD SR 2023-24pg .No. 53	nos	1241.00	1241.00
	2.00	q) 32mm dia Gun Metal Gate valve PWD SR 2023-24pg .No. 53	nos	760.00	1520.00
		Supplying and delivery of following dia PVC Pipe(10kg for .per.cm2)specials with ISI mark of best quality confirming to IS specification including cost of materials and conveyance etc., all complete and as directed by the departmental officers. Below ground level			
sr p.329	20.00	a) 63mm dia pvc pipe (10kg for .per.cm2)	Rmt	439.50	8790.00
twad p 104	45.00	b) 50mm dia pvc pipe (10kg for .per.cm2)	Rmt	151.90	6835.50
	2.00	c) 63mm dia Elbow Twad 2023-24 pg no. 27	nos	44.50	89.00
	2.00	d) 63mm dia Tee Twad 2023-24 pg no. 27	nos	54.70	109.40
	3.00	e) 50mm dia Tee PWD SR 2023-2024 pg .No. 105	nos	43.25	129.75
	3.00	f) 50mm dia Elbow PWD SR 2023-2024 pg .No. 105	nos	28.75	86.25
	1.00	g) 63mm x50mm dia reducer Twad 2022-23 pg no. 25	nos	16.20	16.20
	4.00	h) 50mmx40mm dia reducer PWD SR 2023-2024 pg .No. 106	nos	22.90	91.60
	111.00	Supplying, delivering and fixing of 16mm thick Nylon Rope, tying with the open well submersible pump and connecting at the top of well with necessary clamps etc., complete. PWD SR 2023-24 pg no. 112	RMT	61.80	6859.80

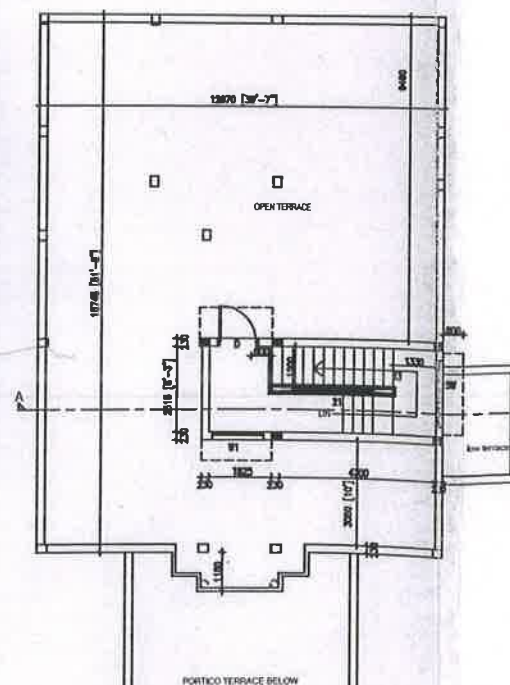
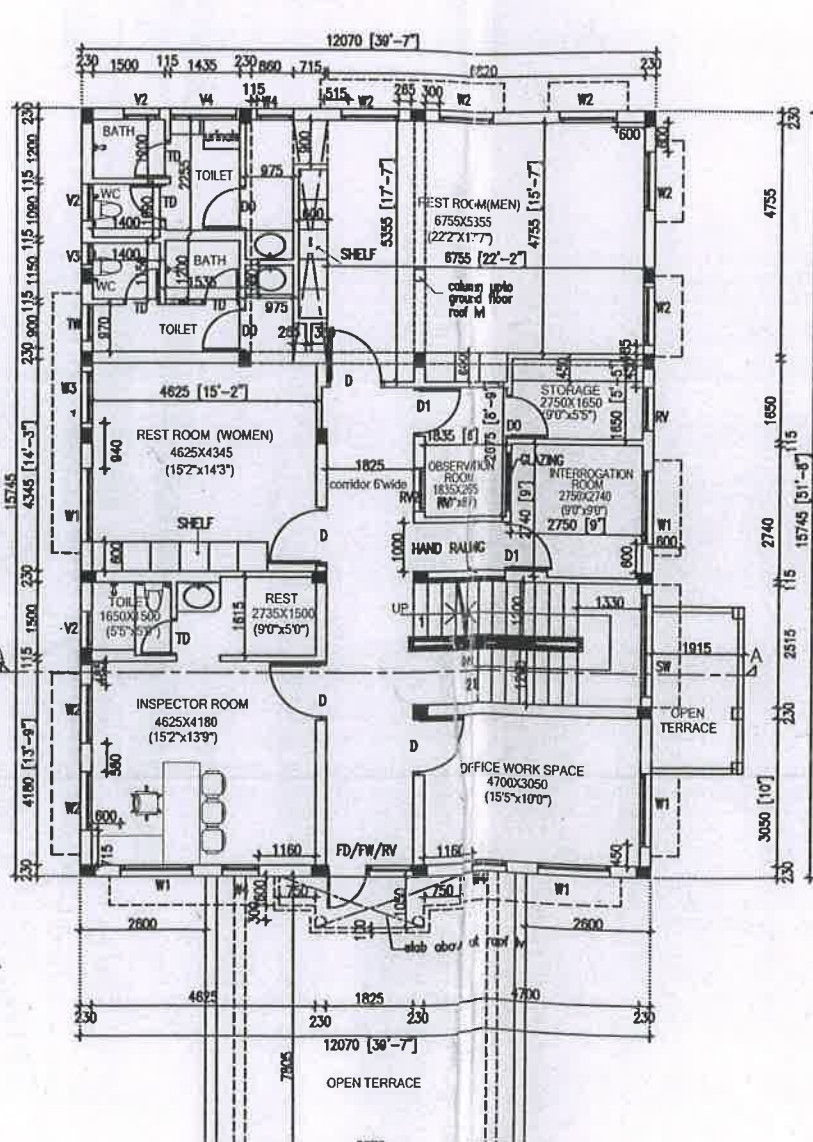
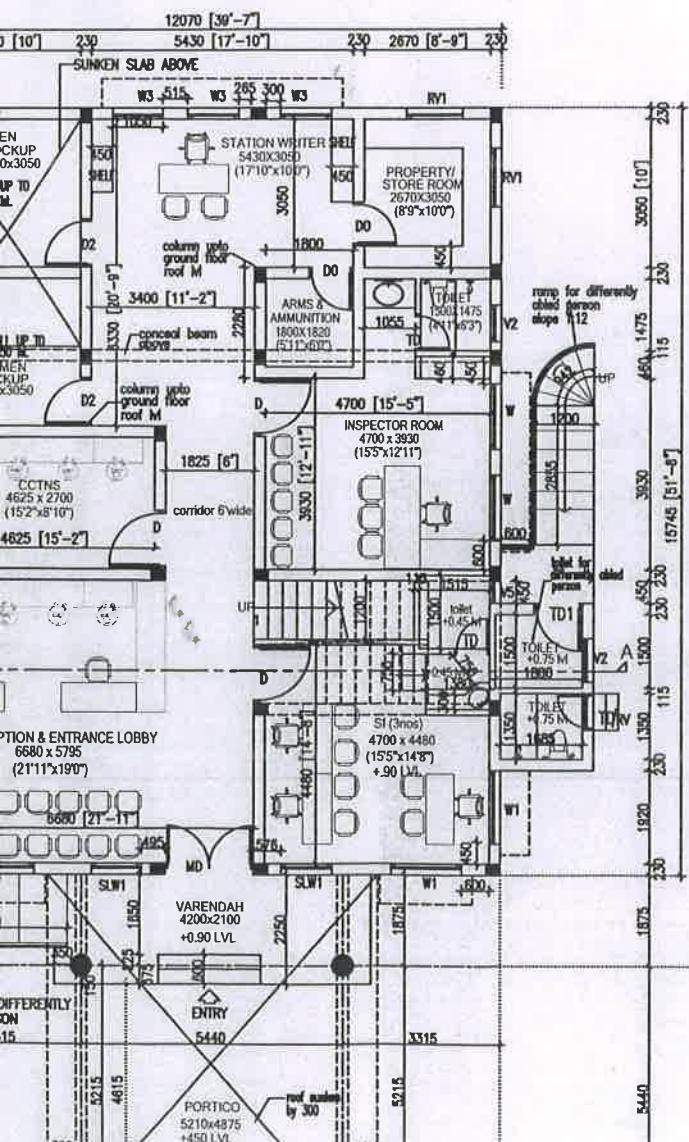
Item	Qty	Description of Work	Unit	Rate	Amount
		Supplying and fixing of following size of TNPHC Emblem & Aluminium Dye casting letters with MRF Powder Coating including l			
	1.00	a) 15" Height TNPHC Emblem PWD SR 2023-2024 pg .No. 73	no	12975.00	12975.00
	18.00	b) 9" dia Aluminium Dye casting letters PWD SR 2023-2024 pg .No. 72	nos	1179.00	21222.00
		Total			15075354.88



FRONT ELEVATION(TENTATIVE)



SECTION AA'



MD	DOOR	1825X2100	T.W. FRAMED DOOR WITH T.W. DOUBLE LEAF PANELLED DOOR SHUTTERS WITH BRASS FITTINGS
FD/FW	TRENCH WINDOW	900X2000	T.W. FRAMED GLAZED FRENCH WINDOW WITH MS GRILLS
RV	DOOR	925X2100	T.W. FRAMED DOOR SHUTTERS WITH BRASS FITTINGS
RV	VENTILATOR	1825X750	T.W. FRAMED ventilator
D	DOOR	1200X2100	T.W. FRAMED DOOR WITH BWR SHUTTER
DO	DOOR	900X2100	R.C.C. FRAMED DOOR WITH BWR SHUTTER
D1	DOOR	1000X2100	T.W. FRAMED DOOR WITH BWR SHUTTER
D2	DOOR(LOCK UP)	1000X2100	DOORS WITH IRON BARS & MS FLATS
D3	DOOR(LOCK UP)	750X1350	P.V.C. DOOR WITH PVC FRAME
TD	DOOR(TOILET)	750X1350	P.V.C. DOOR WITH PVC FRAME
W	WINDOW	1350X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS
W1	WINDOW	1500X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS
W2	WINDOW	1200X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS
W3	WINDOW	1050X1350	-DO-
W4	WINDOW	750X1350	-DO-
W5	WINDOW	750X1350	-DO-
SW	SLIDING WINDOW	1500X1350	UPVC WINDOW WITH SLIDING SHUTTERS
SW	SLIDING WINDOW	1050X1350	UPVC WINDOW WITH SLIDING SHUTTERS
SW	STAIRCASE WINDOW	2100X1350	STEEL FRAMED GLAZED WINDOW WITH MS GRILLS
RV	VENTILATOR (STORE)	900X 750	VENTILATOR WITH IRON BARS AND MS FLAT WITH EXPANDED METAL WELDED ON TO IT
RV1	VENTILATOR (PRO & RECORD)	1200X 750	-DO-
RV2	VENTILATOR (OBSER.)	750X 750	-DO-
V	VENTILATOR(LOCK)	1350X 600	VENTILATOR WITH IRON BARS AND MS FLAT WITH EXPANDED METAL WELDED ON TO IT
V0	VENTILATOR(LOCK)	600X 600	ROOF LVL. -DO-
V1	VENTILATOR(LOCK)	900X 600	-DO-
V2	VENTILATOR (TOL)	750X 750	STEEL FRAMED GLAZED VENTILATOR WITH MS GRILLS
V3	VENTILATOR (TOL)	450X 750	STEEL FRAMED GLAZED VENTILATOR WITH MS GRILLS
V4	VENTILATOR (TOL)	1350X 750	STEEL FRAMED GLAZED VENTILATOR WITH MS GRILLS
V5	VENTILATOR (TOL)	450X 750	STEEL FRAMED GLAZED VENTILATOR WITH MS GRILLS
TD1	DOOR(TOL)	1000X2100	P.V.C. DOOR WITH PVC FRAME (DIFFERENTLY ABLED PERSON)
D/R/VENTILATOR	(TOL)	750X 600	STEEL FRAMED GLAZED VENTILATOR WITH MS GRILLS

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 EUROCOM TILES FOR RAMP, STEPS, PORTICO & STAIRCASE ANTIKID CERAMIC WITH GLAZED TILES TO A HEIGHT OF 1500MM FOR TOILETS
CUPBOARD SLAB PAINTING	: IN RCC/CUDAPPAN : LIME WHITE WASH 3 COATS FOR CEILING INNER WALL-08D 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 BWR SHUTTERS. SOLID PVC DOOR FRAME AND SHUTTER FOR TOILETS. WINDOW-STEEL/ALUMINIUM/
PIPES / TAPS	: P V C / HALF TURN C.P TAP

1.	STAIRCASE :- TREAD-300 MM, RISER-150MM. (21NOs)
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.

GROUND FLOOR AREA	= 185.72	SQ.M
TOILET AREA	= 8.56	
FIRST FLOOR AREA	= 179.48	
TOTAL	= 371.74	(OR) 4001 SQFT
PORTICO & ENTRANCE VERANDAH(half area)	= 21.54	(OR) 232 SQFT
STAIRCASE HEAD ROOM(HALF AREA)	= 10.73	

PROPOSED POLICE STATION AT AVINASHIPALAYAM
S.NO : 692A, 692B, 693 AND 694/2
VILLAGE : SOUTH AVINASHIPALAYAM
TOWN / TALUK : AVINASHIPALAYAM
DISTRICT : THIRUPPUR

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

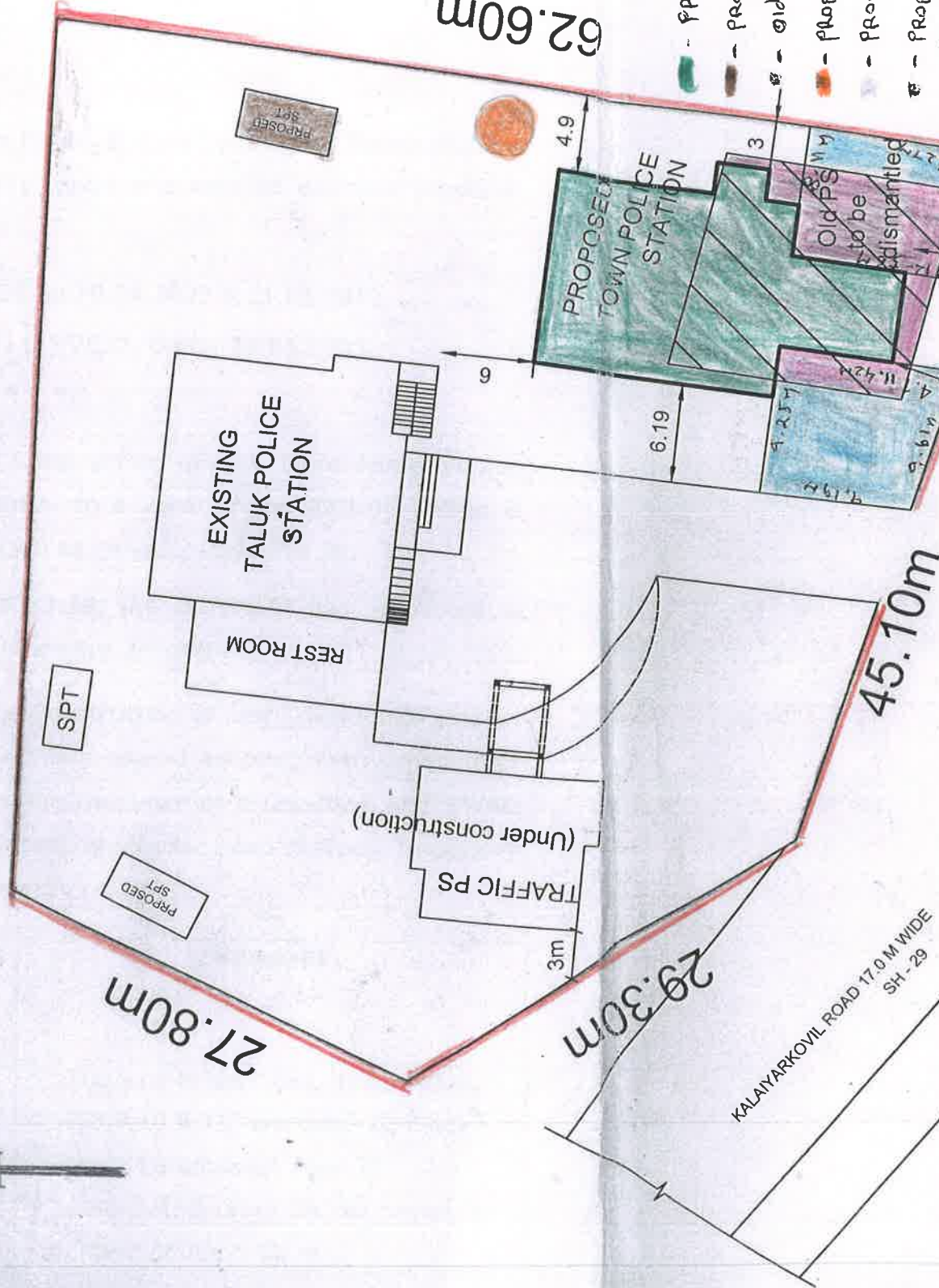
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Paramakudi Town
Chief Engineer
Tamil Nadu Police Housing Corporation Ltd
Chennai - 600 010

LAYOUT FOR TOWN POLICE STATION AT PARAMAKUDI IN RAMANATHAPURAM DISTRICT



54.4m



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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

MUDHUKULATHOOR
ROAD 17.0M WIDE

AYYADURAI STREET
WIDE 16.0M (52 FEET)

KALAYARKOVIL ROAD 17.0 M WIDE
SH - 29

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

22/05/23
EXECUTIVE ENGINEER,
TNPHC Ltd
Madurai Division.

22/05/23
SUPERINTENDING ENGINEER,
TNPHC Ltd
Madurai Division.

22/05/23
CHIEF ENGINEER,
TNPHC Ltd
Madurai Division.

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT