



**Tamil Nadu Police Housing Corporation Limited**  
**(A Government of Tamil Nadu Undertaking)**  
**(An ISO 9001: 2015 Certified Company)**  
**No. 132, E. V. R. Salai, Kilpauk, Chennai – 600 010.**



**Lr. No. CE/Plg/F&RS/3790/2022**

**Dated: 05.06.2023**

**To**

The Director,  
Tamil Nadu Fire & Rescue Services Dept.,  
No. 17, Rukmani Lakshmipathy Salai,  
Egmore, Chennai - 600 008.

**Sir,**

**Sub:** TNPHC – Fire & Rescue Service department - Announcement made by the Hon'ble Chief Minister of Tamil Nadu on 20.04.2023 & 21.04.2023- Construction of Fire and Rescue Service Station building at Srirangam in Trichy City - Detailed estimate Proposal- Sent – Approval requested – Regarding.

**Ref:** 1. Hon'ble CM Announcement during Budget demand on 20.04.2023 & 21.04.2023.  
2. The Director/F&RS/Ch C. No: 7403/E3/2023, Dt: 04.05.2023.

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It is informed that as per the announcement made by the Hon'ble Chief Minister of Tamil Nadu during Budget Demand on 20.04.2023 & 21.04.2023, the Director/F&RS vide ref. 2<sup>nd</sup> cited has requested to send the detailed estimate for the above work for the announcement value of **₹485.51 lakhs.**

Accordingly, the identified site in S.No:2493, Ward B, Block-38 of Thimmarayasamudram Village, Srirangam Taluk in Trichy City having a total extent of 0.23.15 Hectare has been inspected by the TNPHC officials and found that according to the availability of land, the land is sufficient to accommodate fire station with 2 bay for which special type design with total plinth area 1062.80 SqM has been adopted. The land belongs to Fire & Rescue Services department. In the site, already fire station with AC sheet roof building constructed by PWD during 1972 is functioning and has to be demolished for the taking up of new construction. The site is low lying area and hence provision for filling is included in the estimate. The estimate is prepared based on the

PWD Schedule of rates for the year 2023-2024 including all over head charges and the estimate value arrives to **₹485.51 lakhs**. The detailed estimate, type design and tentative layout are enclosed herewith.

It is therefore requested that necessary administrative and financial sanction for the amount of **₹485.51 lakhs** may be obtained from the Government and communicated to us so as to proceed further in this regard.

**Encl:** Detailed estimate- 1set

Yours faithfully,



**Chief Engineer**

*BB*  
5/6

**Tamil Nadu Police Housing Corporation Limited**

**GENERAL ABSTRACT**

**Construction of Fire and Rescue Service Station (3 Bay ) At Srirangam In  
Trichy City**

Sl.No.	Qty.	Description	Rate	Unit	Amount
		<b><u>BUILDING WORKS</u></b>	<b>AS PER PWD SR 2023-2024</b>		
1	1	Fire Services Station building	30350830.83	1 unit	30350830.83
		<b>SUB - TOTAL - I Rs.</b>			<b>30350830.83</b>
		<b><u>DEVELOPMENT WORKS</u></b>			
2	1	Sump	1226022.48		1226022.48
3	1	Plinth Protection	105998.13		105998.13
4	1	Paver Road	329915.18		329915.18
5	1	Hose Drying yard & Rack arrangements	747293.24		747293.24
6	1	Borewell with Pumpset	595293.17		595293.17
7	1	Security Periphery wall	1682700.75		1682700.75
8	1	Culvert	506103.87		506103.87
9	1	External Electrical arrangements	619515.05		619515.05
10	1	Two Wheler Shed	410671.00		410671.00
		<b>SUB - TOTAL - II Rs.</b>			<b>36574343.70</b>
12	LS	Provision for Soil investigation	LS		100000.00
		Provision for Filling arrangements			400000.00
		Provision for Solar arrangements			500000.00
		Provision for Ladder for service pit			100000.00
		Provision for Ramp arrangements			200000.00
		<b>SUB - TOTAL - IV Rs.</b>			<b>37874343.70</b>
11		GST at 18.0% (SGST at 9% + CGST at 9%)			6817381.87
		<b>SUB - TOTAL - III Rs.</b>			<b>44691725.57</b>

Sl.No.	Qty.	Description	Rate	Unit	Amount
13		Labour Welfare Fund @ 1.00%	As per PWD norms		378743.44
14		Unforeseen items, Contingencies & Petty Supervision charges @ 1.0%	As per PWD norms		378743.44
15		Supervision charges @ 5.0%	-		1893717.19
		<b>SUB - TOTAL - V Rs.</b>			<b>47342929.64</b>
16	LS	Provision for Stone laying and inaugural function	LS		48000.00
17	LS	Provision for Advertisement charges	LS		100000.00
18	LS	Provision for EB Deposits	LS		300000.00
19	LS	Provision for Planning permission & Payment to other department	LS		200000.00
20	LS	Structural Design / Consultancy & MEP charges	LS		160000.00
21	LS	Provision for UGD Connection	LS		400000.00
		<b>GRAND TOTAL Rs.</b>			<b>48550929.64</b>

**SAY Rs. 485.51 lakhs**

  
**Chief Engineer**  
 13/5/16

**Tamil Nadu Police Housing Corporation Limited**

**Construction of Fire and Rescue Service Station (3 Bay ) At Srirengam In Trichy City**

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
1.1		Earth work excavation in all soils <b>(including refilling)</b>			
	1005.60	a. 0 to 2 mt. Earth work excavation in all soils (including refilling)	248.93	Cum.	250324.01
	138.60	b. 2 to 3 mt. Earth work excavation in all soils (including refilling)	260.01	Cum.	36037.39
1.2		Earth work excavation for foundation in all soils and sub soils . (Excluding Refilling)			
	3.00	a. 0 to 2 mt. Earth work excavation in Soft disintegrated rock (including refilling)	364.13	Cum.	1092.39
	88.40	Providing of Granular Sub Base using Grade-I	1989.20	Cum.	175845.28
2.1	163.40	Filling sand	1769.12	Cum.	289074.21
3.1	90.60	C.C.1:5:10 for Foundation & Basement	4819.89	Cum.	436682.03
3.2	14.00	P.C.C. 1:2:4 for Foundation & Basement and other similar works	6371.34	Cum.	89198.76
6.5	186.80	<b>Brick work in C.M. 1:5 (F&amp; 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")</b>	6765.04	Cum.	1263709.47
7.2	12.67	Supply and fixing of <b>Bituminous filler pad</b> , 20 mm tk. for expansion joint	719.00	Sqm.	9109.73
9.5		<b>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")</b>	*		
	112.70	a. In Ground Floor 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")	6774.91	Cum.	763532.36
	83.70	b. In First Floor 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")	6942.07	Cum.	581051.26
	66.90	c. In Second Floor 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")	7109.23	Cum.	475607.49

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
	25.90	d. In Third Floor 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")	7276.39	Cum.	188458.50
10.5		<b>Brick partition work in C.M. 1:4</b> Kiln Burnt Country bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4") <b>110 mm tk (B.P.)</b>	*		
	273.30	a. In Foundation and basementBrick 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.)	823.33	Sqm.	225016.09
	67.70	b. In Ground FloorBrick 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.)	832.44	Sqm.	56356.19
	59.10	c. In First Floor 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.)	850.83	Sqm.	50284.05
	62.80	d. In Second FloorBrick 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.)	869.22	Sqm.	54587.02
11.5		<b>Brick work in C.M. 1:4</b> Kiln Burnt Country bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4") <b>70 mm tk (B.P.)</b>	*		
	39.10	a. In Ground Floor 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.)	567.88	Sqm.	22204.11
	18.90	b. In First Floor 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.)	579.58	Sqm.	10954.06
	10.10	c. In Second Floor 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.)	591.28	Sqm.	5971.93
12.1		<b>Brick partition in C.M. 1:4 using country bricks of size 22 x11x5cm 50 mm thick</b>	*		
	7.40	a. In Ground FloorBrick partition in C.M. 1:4 using country bricks of size 22 x11x5cm 50 mm thick	410.09	Sqm.	3034.67
	7.80	b. In First FloorBrick partition in C.M. 1:4 using country bricks of size 22 x11x5cm 50 mm thick	418.45	Sqm.	3263.91

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
	9.30	c. In Second FloorBrick partition in C.M. 1:4 using country bricks of size 22 x11x5cm 50 mm thick	426.81	Sqm.	3969.33
13.1	117.10	Filling with Excavated Earth	40.90	Cum.	4789.39
21.2		<b>Teak wood Wrought &amp; Put up</b>	*		
	1.74	a. T.W. over 2 m & below 3 m	125974.50	Cum.	219195.63
	0.86	b. T.W. below 2 m length.	113774.50	Cum.	97846.07
23.3	27.00	S&F of Magnetic door catches	52.00	Each	1404.00
25.0	186.00	M.S.Holdfast	9.60	Each	1785.60
26.0	93.40	Flooring in C.C.1:5:10	4819.89	Cum.	450177.73
28.0	163.90	<b>Floor plastering</b> in C.M. 1:4, 20 mm tk.	533.52	Sqm.	87443.93
30.0	3312.00	Ellispattern	459.65	Sqm.	1522360.80
31.0	61.30	Weathering course	3794.13	Cum.	232580.17
33.0	5599.30	Plastering in C.M. 1:5, 12 mm tk.	262.06	Sqm.	1467352.56
34.0	50.00	Plastering in C.M. 1:4, 12 mm tk.	268.15	Sqm.	13407.50
35.0	1369.80	Spl. Ceiling plastering in C.M. 1:3, 10 mm tk.	299.80	Sqm.	410666.04
36.0		<b>Cement mortar Border in C.M. 1:5, 12 mm tk.</b>	*		
	584.20	a. 150 mm wide	84.21	Rmt	49195.48
	843.10	b. 75 mm wide	54.90	Rmt	46286.19
	259.00	c. 50 mm wide	40.88	Rmt	10587.92
37.1	1369.80	White washing 3 coats <b>(slaked)</b>	47.48	Sqm.	65038.10
39.0	6521.45	M.s Grills	70.15	Kg.	457479.72
40.0	142.00	Painting - New "wood work"	241.31	Sqm.	34266.02
41.0	341.60	Painting - New "iron work"	142.73	Sqm.	48756.57

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
45.0	122.50	Stucco plastering 12 mm tk.	328.59	Sqm.	40252.28
46.0	335.60	S & F 20 mm dia Alu. Hanger Rod	58.00	Rmt	19464.80
47.0	10.00	S & F Alu Towel rail 75 cm long	95.00	Each	950.00
48.0	13.00	S & F 5 pin Coat stand	55.00	Each	715.00
49.0	264.00	S & F chromium plated 8 guage Picture Hook	1.50	Each	396.00
50.2	8.00	Providing precast Kerb stone in C.C. 1:3:6, 450 x 300 x 150 mm	262.76	Rmt	2102.08
50.3	5.00	Supply and planting avenue trees	372.73	Each	1863.65
50.4	5.00	Providing Tree guard	906.32	Each	4531.60
50.5	1.00	Supplying. Fabricating and erection of M.S Scheme Name board	19541.97	Each	19541.97
52.0		<b>PVC Water supply (ASTM)</b>	*		
	80.00	a. 32 mm dia PVC Water supply (ASTM)	260.42	Rmt	20833.60
	131.00	b. 25 mm dia PVC Water supply (ASTM)	242.82	Rmt	31809.42
53.3	8.00	C.I. Steps ( 5 kg)	30.00	Each	240.00
57	9.00	S & F of E.W.C.(white)	7315.38	Each	65838.42
59.2	9.00	Gully Trap using chamber burnt bricks of size 23x11.4x7.5cm	2080.14	Each	18721.26
60.0	9.00	PVC Nahani trap (4way/2way)	160.00	Each	1440.00
69.0	24.00	15 Amp. Power plug	150.00	Each	3600.00
70.1	18.00	Bulk head fitting	529.20	Each	9525.60
72.0	72.00	Box type Fibre Fan hook	33.90	Each	2440.80
74.0	72.00	Charges for fixing of "Fan"	601.20	Each	43286.40
76.0	15.00	8 SWG wire	27.13	Rmt	406.95
77.2	2.00	S & F of A/C metal clad switch	1879.00	Each	3758.00
77.3	8.00	S&F of TV/Telephone line Socket	77.01	Each	616.08



Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
77.4	118.00	S&F of 20mm dia PVC pipe for TV/Telephone line	89.74	Rmt	10589.32
78.0	1.00	Earthing Station IS3043 (Type I)	2997.60	Each	2997.60
80.0	4.00	375 x 300 x 20 mm T.W. plank	846.00	Each	3384.00
81.0	0.70	Meter cupboard	2596.80	Sqm	1817.76
86.0	631.00	Anti termite treatment	34.00	Sqm.	21454.00
87.0	1.00	ELCB Single phase	2717.80	Each	2717.80
		<b>ANNEXURE</b>			
14.I		<b>Precast Cupboard slab 20 mm tk.using standardised concrete mix M20 (annexure)</b>	*		
	73.50	a. In Ground floor Precast Cupboard slab 20 mm tk.using standardised concrete mix M20 (annexure)	1561.44	Sqm.	114765.84
	58.40	b. In First floor Precast Cupboard slab 20 mm tk.using standardised concrete mix M20 (annexure)	1566.44	Sqm.	91480.10
	22.40	c. In Second floor Precast Cupboard slab 20 mm tk.using standardised concrete mix M20 (annexure)	1571.44	Sqm.	35200.26
14.II		<b>Precast cupboard slab 40 mm tkusing standardised concrete mix M20 (annexure)</b>	*		
	27.00	a. In Foundation & basement Precast cupboard slab 40 mm tkusing standardised concrete mix M20 (annexure)	2200.07	Sqm.	59401.89
		<b>Precast Jally ventilator 50mm tk.using standardised concrete mix M20 (annexure) without vibrating charges</b>	*		
	2.00	a. In Ground Floor Precast Jally ventilator 50mm tk.using standardised concrete mix M20 (annexure) without vibrating charges	3093.85	Sqm.	6187.70
		<b>Standardised concrete Mix M20 Grade Concrete</b>	*		
	280.80	a. In Foundation and basement Standardised concrete Mix M20 Grade Concrete	7985.18	Cum	2242238.54

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
	112.40	b. Ground Floor Standardised concrete Mix M20 Grade Concrete	8111.02	Cum	911678.65
	150.30	c. In First Floor Standardised concrete Mix M20 Grade Concrete	8358.93	Cum	1256347.18
	49.35	d. In Second Floor Standardised concrete Mix M20 Grade Concrete	8606.84	Cum	424747.55
	26.20	e. In Third floor Standardised concrete Mix M20 Grade Concrete	8854.75	Cum	231994.45
	263.60	Plastering with CM 1:3, 12mm with WPC	286.84	Sqm	75611.02
	792.60	Supplying and filling with gravel	380.10	Cum	301267.26
3.80	38.20	P.C.C. 1:3:6 for foundation & basement using 20mm metal	5719.02	Cum	218466.56
18.1		<b>Formwork using M.S.Sheet</b>			
	898.71	a.For Column footings,plinth beam,Grade beam,Raftbeam,Raft slab etc.,	886.03	Sqm	796284.02
	2528.80	b.Plain surfaces such as Roof slab,floorslab,Beams,lintels,lofts,sill slab,staircase,portico slab and other similar works	987.02	Sqm	2495976.18
	726.80	c.For Square and rectangular columns and small quantities	1184.42	Sqm	860836.46
	269.00	d.Vertical wall	1085.72	Sqm	292058.68
	20.79	T.W. frame & TW styles & rails with BWR double leaf shutters for cup board/ ward robes including two coat enamel paint & one coat primer.	4329.88	Sqm	90018.21
21.5.2	30.00	Supply and Fixing Soild UPVC door Shutter with frame	3325.00	Sqm	99750.00
		<b>Cuddappa slab 40 mm tk.for C/B slab.</b>			
	5.10	a. In Ground floor Cuddappa slab 40 mm tk.for C/B slab.	598.28	Sqm.	3051.23
29.8	473.60	Glazed tiles using Grout (Tile Joint Filler)	1420.92	Sqm	672947.71
29.9	80.70	Floor ceramic tiles (Anti-skid) using Grout (Tile Joint Filler).	1246.20	Sqm	100568.34
43.0	71.07	<b>Fabrication of Mild steel / RTS grills (without cement slurry) for all sizes of rods.</b>	90389.00	MT	6423946.23
44.6	56.00	PVC SWR 110 mm dia with ISI mark type- A for <b>Rain water down fall pipe</b>	350.32	Rmt	19617.92

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
50.6	44.60	Precast slab 50 mm tk.in C.C. 1:3:6 with fibre	409.42	Sqm	18260.13
52.4	46.00	20mm dia PVC water supply ASTM pipe (fully consealed in walls)	240.02	Rmt	11040.92
53.4	4.00	S&F of C.I Manhole cover 60 x 60 cm (50kg weight )	1864.00	Each	7456.00
	10.00	Wash Hand Basin of size 550 x 400 mm	3416.50	Each	34165.00
58.3		PVC SWR pipe (Soil line) with ISI mark - type 'B'.	*		
	52.50	a. 110 mm dia. PVC SWR pipe (Soil line) with ISI mark - type 'B'.	737.96	Rmt	38742.90
	52.50	b. 75 mm dia. PVC SWR pipe (Soil line) with ISI mark - type 'B'.	620.66	Rmt	32584.65
58.4	33.00	Supplying, Laying & Concealing the 50mm dia PVC ( SWR) pipe with ISI mark type - 'B' with relevant specials.	114.45	Rmt	3776.85
		Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.( Ordinary)	*		
	135.00	a. Light point with ceiling rose Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.( Ordinary)	1692.10	Each	228433.50
	46.00	b. Light point without ceiling rose Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.( Ordinary)	1695.10	Each	77974.60
	2.00	c. Calling bell point with Buzzer/Calling bell Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.( Ordinary)	1732.10	Each	3464.20
65.1	72.00	Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for Fan point.	1767.10	Each	127231.20
66.1	4.00	Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for Staircase Light Point.	3176.20	Each	12704.80
	20.00	Wiring with 1.5 Sqm.m 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.	869.50	Each	17390.00

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount <sup>8</sup>
68.2	50.00	Wiring with 1.5 Sqm.m 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.	1174.40	Each	58720.00
	72.00	Supply and delivery of <b>48" (1200 mm) Fan</b> with ISI mark with Eletronic Dimmer	1552.70	Each	111794.40
	163.00	Run of 2 wires of 4 Sqm.m with continuous earth by means of 2.5Sqm.m	272.90	Rmt	44482.70
77.5	40.00	Run of main 2 wires of 1.50 Sqm.m.	214.90	Rmt	8596.00
	291.00	Run of 2 Wires of 2.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990	232.90	Rmt	67773.90
	30.00	4 x 4 Sq mm copper PVC insulated unsheathed single core cable for <b>3 phase EB service connection</b>	275.30	Rmt	8259.00
	60.00	Run of 4 Wires of 6 Sqm.m PVC insulated single core multi strand	501.08	Rmt	30064.80
		Run of 4 Wires of 10 Sqm.m PVC insulated single core multi strand	642.77	Rmt	
112.1	22.00	S & F of Exsaust Fan 225mm dia	2176.40	Each	47880.80
44.2		<b>Rain water harvesting using defunct borewell and providing perforated cover slab</b>	*		
	4.00	a). Providing pit Rain water harvesting using defunct borewell and providing perforated cover slab	2155.78	Each	8623.12
	16.00	b) Augering 30cm dia Rain water harvesting using defunct borewell and providing perforated cover slab	499.37	Rmt	7989.92
344.2	22.00	S&F of Bevelled edge mirror 500 x 400 x 5.5mm	398.30	Each	8762.60
	100.00	Supply of G.I pipe 40mm dia 'B' Class	165.00	Rmt	16500.00
	3941.12	Plastic Emulsion PAINT including primer for inner walls	240.20	Sqm	946657.02
	1273.00	Painting the new walls with one coat of approved best ready mixed plastic emulsion paint	133.49	Sqm	169932.77
38.4.1	1431.30	Two coat of Exterior Emulsion paint	248.97	Sqm	356350.76
448.2	22.00	Providing PVC Tee with end cap	143.73	Each	3162.06

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
	41.30	Providing wooden <b>Melamine</b> polish for new wood work	1489.69	Sqm	61524.20
s	118.80	Concrete designer tiles flooring	1519.56	Sqm	180523.73
	34.00	<b>Supplying and fixing in position of UPVC Ventilator louvered ventilator type for all sizes PWD SR 2022-2023 p-66</b>	8106.00	Sqm	275604.00
	164.00	<b>Supplying and fixing in position of UPVC window of casement type( open) for all sizes SR 2022-2023 p-65</b>	7482.00	Sqm	1227048.00
		<b>Supplying and fixing of solid core flush door shutter of thickness 35mm</b>	*		
	9.80	c) door size 1.50 m x 2.40 (Double leaf)	3120.70	Sqm	30582.86
	23.10	e). door size 1.200 m x 2.400 (double Leaf)	3328.09	Sqm	76878.88
	2.10	h). door size 1.00 m x 2.400 (Single Leaf)	3006.62	Sqm	6313.90
	13.10	i. door size 0.900 m x 2.100 (Single Leaf)	3101.05	Sqm	40623.76
	739.00	Finshing the top of Terrace floor with one course of solar reflective Ceramic tiles without base concrete	1273.04	Sqm.	940776.56
		<b>UPVC Non Pressure pipe of SN8 SDR 34 ( S 16.5) as per IS 15328/2003</b>	*		
	55.00	a. 110 mm UPVC Non Pressure pipe	500.16	Rmt	27508.80
	30.00	b. 160 mm UPVC Non Pressure pipe	824.38	Rmt	24731.40
	2.00	S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm <b>with PVC SWR grade ' P' or "S' trap - in G.F.</b>	3428.83	Each	6857.66
	2.00	S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm <b>with PVC SWR grade ' P' or "S' trap- Other than G.F.</b>	5331.47	Each	10662.94
	19.00	S & F of 15mm dia half turn CP long body tap	495.00	Each	9405.00
	19.00	S & F of 15mm dia half turn CP short body tap	447.00	Each	8493.00
		<b>Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990. (Open wiring)</b>			
	4.00	a. Light point with ceiling rose Wiring with 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990. (Open wiring)	921.20	Each	3684.80

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
	43.00	Supply and fixing of 9 watts LED bulb (PWD SR-2022-23/p-115)	135.00	Each	5805.00
	119.00	18 watts LED Tube Light	704.13	Each	83791.47
	8.00	Supply and fixing of 25 W LED Street light	3458.67		27669.36
	9.00	12 watts LED bulb qtn	170.00	Each	1530.00
	2778.00	Wallputty ( one coat)	99.18	Sqm	275522.04
	386.20	Vitrified Tiles flooring (Ivory)	1289.64	Sqm	498058.97
	158.20	Granite Tiles flooring	1661.34	Sqm	262823.99
	8.64	TW Panelled Door 1200 X 2400MM (Double leaves)	6581.03	Sqm	56860.10
	3.40	TW Panelled Door 1800 X 2400MM (Double leaves)	5989.52	Sqm	20364.37
	10.00	Supply and fixing of CP 2 way bib cock with health fauct	2060.00	Each	20600.00
	513.00	Supplying and filling the low lying area with conveyed Gravel	362.58	Cum	186003.54
	13.00	Supplying and filling in Stone dust	436.21	Cum	5670.73
	13.00	Supplying and filling with 3-10mm size	921.40	Cum	11978.20
	153.00	Supplying of Rubber Moulded Hydraulic Pressed Paver Block 83mm thick	552.00	Sqm	84456.00
	13.00	Labour Charges for Spreading and Leveling of 3mm to 10 mm Size HBSJ	250.00	Cum	3250.00
	153.00	Delivery of 83mm thickness of Paver Block	220.00	Sqm	33660.00
	13.00	Supplying and fixing of 24W LED 4000K 2 x 2 Square	3914.00	Each	50882.00
	30.00	Supplying and fixing of spot light (MASTER LED 3W-12 W) including labour charges for fixing of light etc all complete	398.00	Each	11940.00
	1.00	Supply and fixing of 100A TPN sheet double break switch with HRC fuse and neutral on suitable angle iron frame work with MS cable entry boxes and with PWD earthing	11300.00	Each	11300.00
	2.00	40A - FP MCB Isolator	580.00	Each	1160.00
	3.00	Supply and fixing of 8 way SP DB of 16A / way with 16A DP switch with Metal clad of 500V with fuse and neutral on (front handle) on suitable TW board with earth connection only	4881.00	Each	14643.00

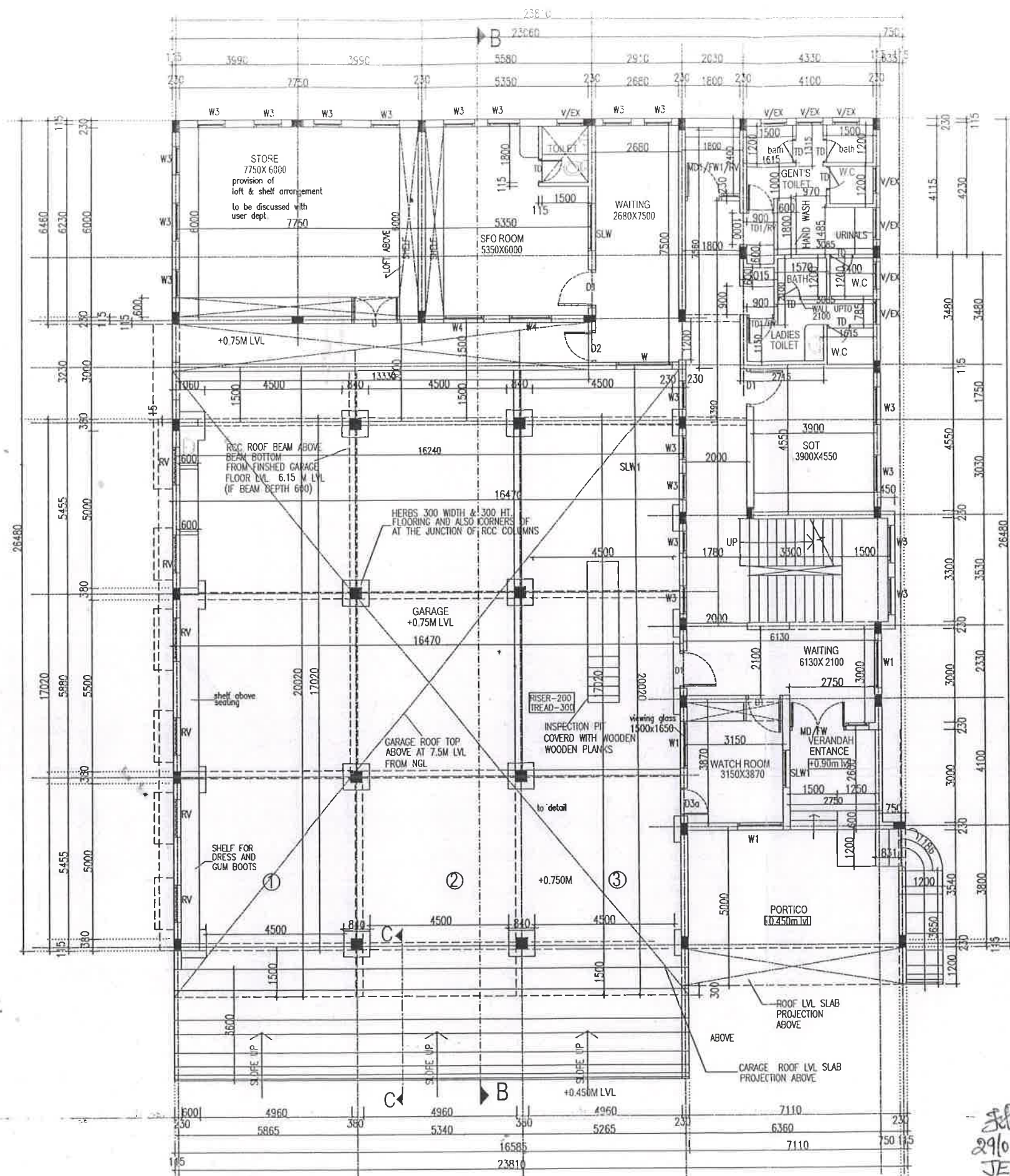
Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
	1.00	150W LED STREET LIGHT FITTING	18997.00	Each	18997.00
	3.00	120W LED STREET LIGHT FITTING	15432.00	Each	46296.00
	3.00	60W LED STREET LIGHT FITTING	5935.00	Each	17805.00
		Supplying and fixing of following size aluminium die casting	*		
	24.00	b)30cm Letters (12")	1200.00	Each	28800.00
	27.00	c)23 cm Letters (9")	1179.00	Each	31833.00
	2760.00	Plastic name board (4")	5.00	Sqm	13800.00
	1.00	c)45cm Round logo (18")	3500.00	Each	3500.00
	1.00	d)60cm TNPHC Embalam (23")	4000.00	Each	4000.00
	13.00	Supplying of Godrej Navtal 7 Levers - 3 Keys	700.00	Each	9100.00
	85.00	Supplying and fixing of Galvalume sheet roofing 0.47mm thick	1023.09	Sqm	86962.65
	949.00	Supplying and fixing mild steel angles for truss	111.12	KG	105452.88
	20.00	Manhole Cover SFRC 750mm x 750mm	2971.00	Each	59420.00
	65.00	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	3744.00
	10.00	Supplying and fixing of 6Amps to 32 Amps single pole MCB	174.00	Each	1740.00
	1.00	Supply and fixing of 900x700x250 mm tk eb service panel for 415 volt,3 phase, 4 wire 50 hz power	25000.00	Each	25000.00
	15.00	2 core 10 sq.mm. PVC Armoured UG Cable	119.20	Rmt	1788.00
	22.00	3.5 core 50 sq.mm. PVC Armoured UG Cable	339.80	Rmt	7475.60
	35.00	4 core 10 sq.mm. PVC Armoured UG Cable	139.10	Rmt	4868.50
	35.00	Labour charges for laying of PVC Armoured LTUG Cable excluding Civil works etc.,all complete and as directed by the departmental officers a) Below Ground Level	48.32	Rmt	1691.20

Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount <sup>12</sup>
	37.00	Labour charges for laying of PVC Armoured LTUG Cable a) Below Ground Level	267.40	Rmt	9893.80
	2.00	Supply and fixing of brass cable gland for 2 x 10 sq.mm. PVC LTUG aluminium armoured cable with earth connection	282.00	Each	564.00
	6.00	Supply and frxing of brass cable gland for 3-1/2 x 50 sq.mm. PVC LTUG aluminium armoured cable with earth connection	439.00	Each	2634.00
	6.00	Supply and providing cable end termination of 3-1/2 x 50 sq.mm. PVC LTUG aluminium armoured cable with necessary aluminium cable sockets by crimping etc with electrical connection complete.	346.00	Each	2076.00
		<b>Water Supply arrangements</b>			
	366.00	Drilling of 150mm dia vertical bores in hard rock area to any required depth as directed by	295.00	Rmt	107970.00
	50.00	Supplying and fixing of PVC casing pipe 200 mm Dia CS IIIrd quarter	1113.20	Rmt	55660.00
	8.00	Charges for developing the Borewell with air compressor of 600 CFM capacity (Minimum 8 Hours) including transportation, labour and fuel charges for compressor as directed by TWAD Officers and onducting yield test by 'V' notch method.	2490.40	Hour	19923.20
	1.00	Supplying and fixing of Bore end cap using PVC 200 mm Dia etc., all complete	193.50	Each	193.50
	1.00	Supplying and fixing of clampset	995.00	Each	995.00
	1.00	Supply and delivery of clear water vertical wet type three phase 5.0HP	52520.00	Each	52520.00
	2.00	Supply and delivery of 2.00 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.	33017.00	Each	66034.00
	2.00	Supply and delivery of three phase 2HP 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%) includin	15147.00	Each	30294.00
	3.00	Labour charges for the erection of three phase Upto 7.5HP submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth	12708.30	Each	38124.90
	396.00	Supply of 3 core 4 sqmm PVC insulated flat cable for submerssible pumpset etc.,all complete	194.00	Rmt	76824.00
	406.00	Supplying of 14mm dia of Nylon rope etc., all complete.	61.80	Rmt	25090.80



Sl. No.	Total Qty. (Main +Dev)	Description	Rate using [C.S Sand]	Unit	Amount
	4.50	d) 32 mm UPVC Pipe UPVC Pipe Below Ground Level	332.38	Rmt	1495.71
	62.00	f) 50 mm UPVC Pipe UPVC Pipe Below Ground Level	404.12	Rmt	25055.44
	6.00	f) 50 mm GI Pipe GI Pipe Below Ground Level	479.90	Rmt	2879.40
	23.00	f) 50 mm GI Pipe GI Pipe Above Ground Level	229.07	Rmt	5268.61
	30.00	c)25 mm Rigid Pipe Rigid Pipe Pipe Below Ground Level	241.68	Rmt	7250.40
	396.00	c) 40 mm UPVC - Column pipe	185.86	Rmt	73600.56
	3.00	50mm dia UPVC Elbow	28.75	Each	86.25
	2.00	50mm dia UPVC Tee	43.25	Each	86.50
	10.00	50mm dia UPVC Coupler	14.25	Each	142.50
	1.00	50mm x 40mm dia UPVC Reducer	22.90	Each	22.90
	3.00	50mm dia GI Union	337.80	Each	1013.40
	7.00	50mm dia GI Bend	116.30	Each	814.10
	6.00	50mm dia GI HEX NIPPLE	121.00	Each	726.00
	6.00	25mm dia GI HEX NIPPLE	45.00	Each	270.00
	2.00	32mm dia GI Gun Metal Gate Valve (Heavy Duty)	760.00	Each	1520.00
	4.00	20mm dia GI Gun Metal Gate Valve (Heavy Duty)	241.00	Each	964.00
	3.00	50mm dia G.M. Non Return valve	2498.00	Each	7494.00
	1.00	Supplying and delivery of 40 mm dia Cast Iron Adopter	900.00		900.00
		<b>Total</b>			<b>36574343.70</b>





MAIN DOOR (FRENCH WINDOW SIDE ENTRY)	700X2400
MAIN DOOR (FRENCH WINDOW SIDE ENTRY)	600X2100
DOOR (DOUBLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	1500X2400
DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	1200X2400
DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	1000X2400
DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	900X2400
DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	900X2400
DOOR (TOILET) PVC DOOR SHUTTER	2100 750X2100
WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1800X1650
WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1500X1650
WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 2000X1650
WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1200X1650
WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1350X1650
UPVC VENTILATOR WITH GRILLS WITH EXHAUST FAN	600 2100 750X 750
WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1500X1650
UPVC VENTILATOR WITH GRILLS	1200X 600

SPECIFICATION	
FOUNDATION	: R.C.C COLUMN & B.W IN CM 1:5
SUPERSTRUCTURE	: BRICK WORK IN CM 1 : 5
ROOF	: RCC SLAB WITH SUTABLE REINFORCEMENT AND PROTECTED PRESSED TILES- SLOPE 1:60
FLOORING	: MORY COLOUR VITRIFIED TILE FLOORING FOR ALL ROOMS, RCC 1:2:4 FLOORING FOR GARAGE, ANTIKID CERAMIC TILE FLOORING FOR TOILET WITH GLAZED WALL TILES TO A HEIGHT OF 2100MM
CUPBOARD-SLAB	: IN RCC/CUDAPPAP FOR COASTAL AREA, CUPBOARD ARE COVERED WITH T.W STYLES AND RAILS AND BWR PANNEL FOR SHUTTERS.
PAINTING	: LIME WHITE WASH 3 COATS FOR CEILING, INNER WALL - OGD 2 COATS OVER 1 COAT PRIMER WHITE CEMENT, DOOR DOORS-PLASTER, PAINT, SMOKE, ORBEL, BUSH, PENS, etc.
JOINERIES	: STEEL WINDOWS & VENTILATORS (OPENABLE) FOR ALL SIZES - WITH GLAZED SHUTTER WITH MS GRILL
PIPES / TAPS	: P V C / HALF TURN C.P TAP

NOTE	
1.	PLINTH HEIGHT 900MM FROM FORMED LVL
2.	SILL LEVEL 750MM FROM FL
3.	LINTEL HEIGHT 2400MM/2100 FROM FINISHED FLOOR LEVEL
4.	ROOF HEIGHT 3600MM INCLUDING SLAB THK
5.	GARAGE ROOF HEIGHT FROM NGL 8.10M (ROOF TOP)
6.	HEIGHT OF PARAPET WALL IN IS 900MM, 300MM
7.	SUNKEN SLAB IS 450MM
8.	WIDTH OF SUNSHADE IS 600MM
9.	ALL DIMENSIONS ARE IN MM & LEVELS IN METRE
10.	STAIRCASE :- TREAD-300 MM, RISER-23 EQ RISER(150)

AREA STATEMENT	
GROUND FLOOR AREA	Sqm
GARAGE (ROOF TOP) 8.10M HT FROM NGL LVL	= 280.28
GARAGE ROOF PROJECTION INSIDE (HALF AREA)	= 12.35
GROUND FLOOR OFFICE AREA (ROOF TOP 3.6M )	= 236.65
ENTRANCE VERANDAH & PORTICO (HALF AREA)	= 18.80
TOTAL	255.45
FIRST FLOOR OFFICE AREA (ROOF TOP 3.6M )	= 275.55
corridor projection	= 12.35
TOTAL	287.90
SECOND FLOOR OFFICE AREA (ROOF TOP 3.6M )	= 169.19
TOTAL	1005.12
STAIRCASE HEAD ROOM (HALF AREA)	= 13.24

PROPOSED CONSTRUCTION OF FIRE STATION CUM GARAGE BUILDING	
SURVEY No. :	
VILLAGE :	
TOWN/TALUK :	
DISTRICT :	

TERRACE FLOOR PLAN & FRONT ELEVATION	
Scale = 1:100	Org. No. /2022
Asst. Architect	EE (PLG )
Supdt. Engineer (C.C)	CHAIRMAN/MD
TAMILNADU POLICE HOUSING CORPORATION LTD. NO.132, E.V.R.SALAI, KILPAUK, CHENNAI-600 010.	

29/5/20  
SUPERINTENDING ENGINEER  
TNPSC LTD  
SOUTH CIRCLE,  
MADURAI-14.

29/05/23  
JE/Plu  
29/5/23  
AEE (Plu)

G. S. S. S.  
29/05/23  
JE

EXECUTIVE ENGINEER  
TNPSC LTD., TIRUCHY DIVISION

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

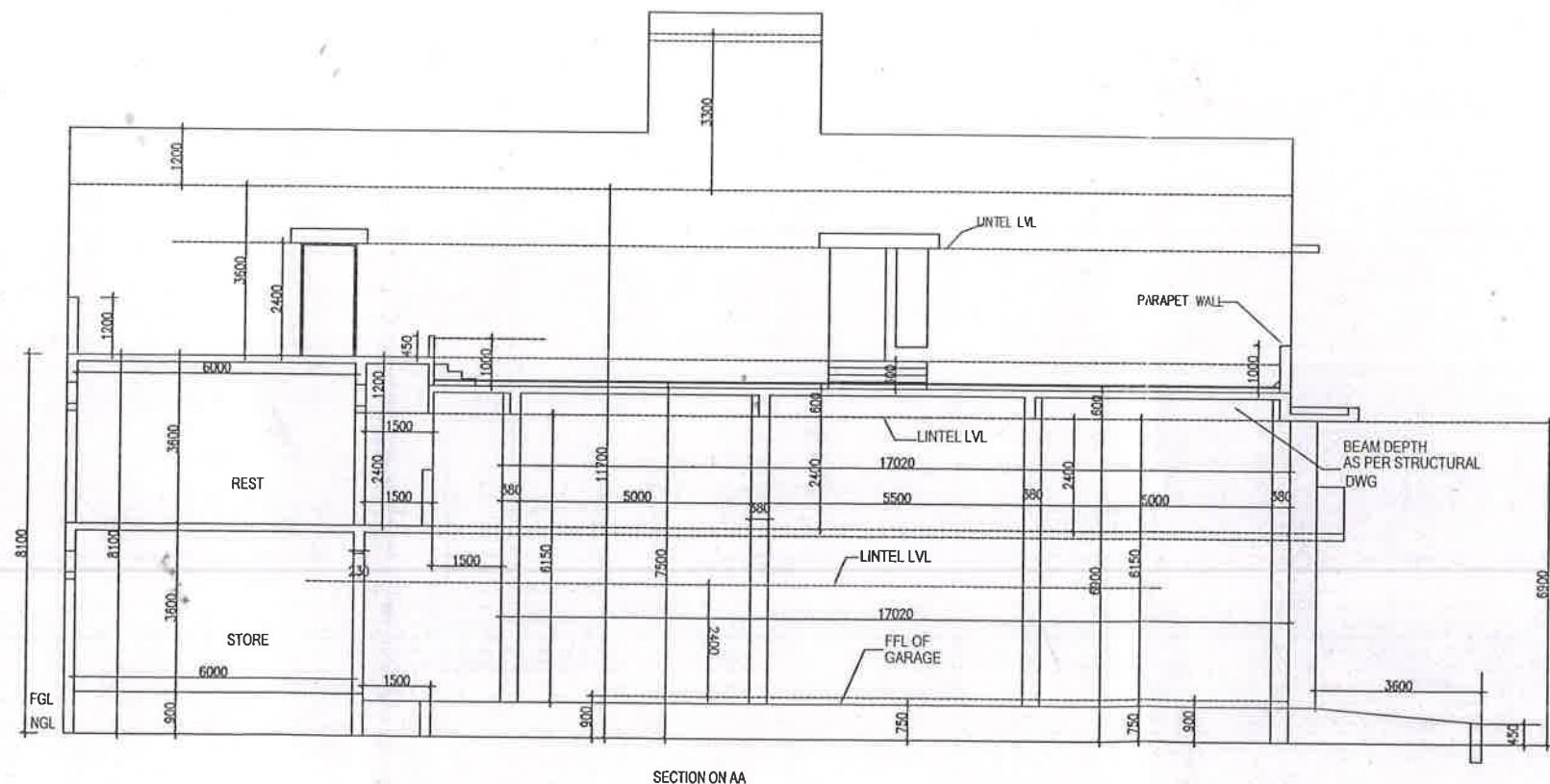












SECTION ON AA

*29/05/23*  
**SUPERINTENDING ENGINEER**  
 TNPHC Ltd  
 SOUTH CIRCLE,  
 MADURAI-14.

*29/05/23*  
 JE/PLM

*29/05/23*  
 AEE(PLG)

**EXECUTIVE ENGINEER**  
 TNPHC LTD., TIRUCHY DIVISION

<b>7/1/2022</b> MAIN DOOR (FRENCH WINDOW) IN 10'0" X 10'0" FRAME WITH T.W. DOUBLE LEAF DOUBLE LEAF PARALLEL DOOR SHUTTERS WITH BRASS FITTINGS F.W. - T.W. FRAMED GLAZED FRENCH WINDOW WITH MS GRILLS 1200X2400 600X2100		
D/V	DOOR (DOUBLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	1500X2400 1500X 600
D1/V	DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	1200X2400 1200X 600
D2/V	DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	1000X2400 1000X 600
D3o	DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS	900X2400
TD1/RV	DOOR (SINGLE LEAF) T.W. FRAME WITH FLUSH DOOR SHUTTERS UPVC VENTILATOR WITH MS GRILLS	900X2400 900X 600
TD	DOOR (TOILET) UPVC DOOR SHUTTER	2100 750X2100
W1/W1/V	WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1800X1650
W2/W2/V	WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1500X1650
W3/W3/V	WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 2000X1650
W4/W4/V	WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1350X1650
V/EX	UPVC VENTILATOR WITH GRILLS WITH EXHAUST FAN	600 2100 750X 750
SLW1	WINDOW UPVC WINDOW CUM VENTILATOR WITH GRILLS	600 2400 1500X1650
RV	UPVC VENTILATOR WITH GRILLS	1200X 600
<b>SPECIFICATION</b> FOUNDATION : R.C.C COLUMN & B.W IN CM 1:5 SUPERSTRUCTURE : BRICK WORK IN C.M 1 : 5 ROOF : RCC SLAB WITH SUITABLE REINFORCEMENT AND PROTECTED PRESSED TILES - SLOPE 1:60 FLOORING : MORY COLOUR VITRIFIED TILE FLOORING FOR ALL ROOMS, RCC 1:2:4 FLOORING FOR GARAGE ANTISKID CERAMIC TILE FLOORING FOR TOILET WITH GLAZED WALL TILES TO A HEIGHT OF 2100MM CUPBOARD SLAB : IN RCC/CUDAPPAN FOR COASTAL AREA CUPBOARD ARE COVERED WITH T.W. STYLES AND RAILS AND GNR PANEL FOR SHUTTERS. PAINTING : LIME WHITE WASH 3 COATS FOR CEILING, INNER WALL -OBS 2 COATS OVER 1 COAT PRIMER WHITE CEMENT. OUTER DOORS-PLASTERED AND PAINTED JOINERIES : SHUTTER DOORS-PLASTERED AND PAINTED STEEL WINDOWS & VENTILATORS (OPENABLE) FOR ALL SIZES - WITH GLAZED SHUTTER WITH MS GRILL PIPES / TAPS : P V C / HALF TURN C.P. TAP		
<b>NOTE</b> 1. PLINTH HEIGHT 900MM FROM FORMED LVL 2. SILL LEVEL 750MM FROM FL 3. LINTEL HEIGHT 2400MM & 2100 FROM FINISHED FLOOR LEVEL 4. ROOF HEIGHT 3600MM INCLUDING SLAB THK GARAGE ROOF HEIGHT FROM NGL 8.10M (ROOF TOP) 5. HEIGHT OF PARAPET WALL IN IS 900MM, 300MM 6. SUNKEN SLAB IS 450MM 7. WIDTH OF SUNSHADE IS 600MM 8. ALL DIMENSIONS ARE IN MM & LEVELS IN METRE. 9. STAIRCASE :- TREAD-300 MM, RISE-23 EQ RISER(150)		
<b>AREA STATEMENT</b> GROUND FLOOR AREA Sqm GARAGE (ROOF TOP) 8.10M HT FROM NGL LVL = 280.28 GARAGE ROOF PROJECTION INSIDE (HALF AREA) = 12.35 292.63 GROUND FLOOR OFFICE AREA (ROOF TOP 3.6M) = 236.65 ENTRANCE VERANDAH & PORTICO (HALF AREA) = 18.80 TOTAL = 255.45 FIRST FLOOR OFFICE AREA (ROOF TOP 3.6M) = 275.55 corridor projection = 12.35 TOTAL = 287.90 SECOND FLOOR OFFICE AREA (ROOF TOP 3.6M) = 169.19 TOTAL = 1005.17 STAIRCASE HEAD ROOM (HALF AREA) = 13.24		
<b>PROPOSED CONSTRUCTION OF</b> <b>FIRE STATION CUM GARAGE BUILDING</b> SURVEY No. : VILLAGE : TOWN/TALUK : DISTRICT :		
N <b>TERRACE FLOOR PLAN &amp; FRONT ELEVATION</b>		
Scale = 1:100	Drng. No. /2022	SHEET NO.01/04
Asst. Architect	AEE/Arch	EE (PLG)
Supdt. Engineer (C.C)	Chief Engineer	CHAIRMAN/MD
<b>TAMILNADU POLICE HOUSING CORPORATION LTD.</b> NO:132, E.V.R.SALAI, KILPAUK, CHENNAI-600 010.		

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



DISTRICT: TIRUCHIRAPPALLI

TALUK: SRIRANGAM

TOWN: SRIRANGAM

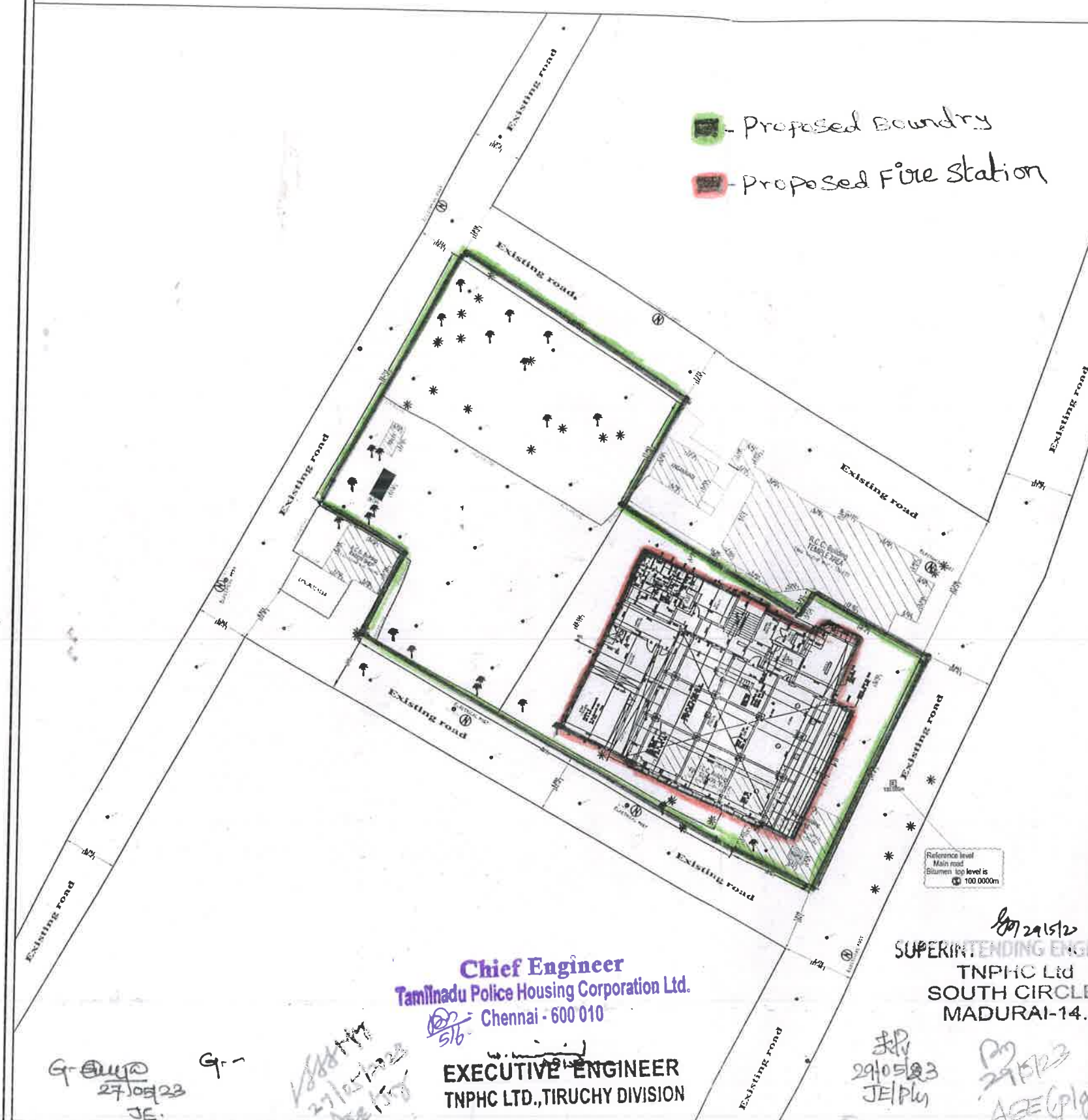
Plan Showing the Topographical Survey Map  
AT SRIRANGAM FIRE STATION

EXTENT:

BLOCK:

T S NO:

New survey no:



Proposed Boundary  
Proposed Fire Station

