



**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/TNPCB/2021**

**Dated: 09.10.2023**

To

The Member Secretary,  
Tamil Nadu Pollution Control Board,  
No. 76, Mount Salai,  
Guindy, Chennai – 600 032.

Sir,

**Sub:** TNPCHC Ltd – HO – Plg - Renovation works and Construction of rest room with toilet, cylinder room, Providing effluent treatment plant (ETP) and CCTV camera arrangements for the existing TNPCB office building at SIPCOT, Cuddalore in Cuddalore District - Estimate proposal and willingness – Furnished – Approval requested - Regarding.

**Ref:** The DEE/ TNPCB, Cuddalore, Lr.No. TNPCB/CUD/OCEMS/STP/2023,  
Dated: 17.05.2023.

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The District Environmental Engineer, Tamil Nadu Pollution Control Board, Cuddalore has requested to furnish the estimate proposal for Renovation works and Construction of rest room with toilet, cylinder room, Providing effluent treatment plant (ETP) and CCTV camera arrangements for the existing TNPCB office building at SIPCOT, Cuddalore in Cuddalore District.

2. Accordingly, the estimate is prepared based on the PWD SR rates for the the year 2023-24 rates. The estimate value works out to ₹ **58,48,000/-** including GST @ 18%, Labour Welfare Fund at 1%, Contingencies @ 2.5%, Supervision charges @ 7.5% and overhead charges.

3. It is informed that the Tamil Nadu Police Housing Corporation is willing to execute the work with the supervision charges @ 7.5%.

4. The total estimate value shall be deposited to the TNPHC before commencement of the work.

5. The payment shall be released in the form of crossed Cheque or Demand Draft in favour of "Tamil Nadu Police Housing Corporation Limited".

6. Hence, it is requested that your acceptance may be communicated to us for taking further necessary action in this regard.

**Encl:** As above.

*22/09/2023*  
*9/10/2023*  
**Chief Engineer**

**Tamil Nadu Police Housing Corporation Ltd**

**GENERAL ABSTRACT**

**Name of Work: Renovation works and Rest room with toilet, Cylinder room, Effluent Treatment Plant (ETP) and CCTV Camera arrangements for the Existing TNPCB office building at SIPCOT, Cuddalore in Cuddalore district.**

S.No	Qty	Description	Rate	Unit	Amount
1	1.00	Renovation work	1623267.50	No	1623267.50
2	1.00	Rest room with toilet	898351.92	No	898351.92
3	1.00	Cylinder room	175348.42	No	175348.42
4	1.00	Effluent Treatment Plant	1140857.12	No	1140857.12
5	1.00	CCTV Camera	473872.00	No	473872.00
		SUB - TOTAL - I Rs.			4311696.96
6		GST 18%			776105.45
		SUB - TOTAL - II Rs.			5087802.41
7		Labour welfare fund @ 1.0%	As per PWD Norms		43116.97
8		Contingencies charges @ 2.5%	"		127287.53
9		Supervision charges @ 7.5%	"		381585.18
10		GST @ 18% for Supervision charges			58207.91
		SUB - TOTAL - IV Rs.			5698000.00
11		Provision for Advertisment Charges	LS		150000.00
					5848000.00
TOTAL Rs.					5848000.00

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



**TAMILNADU POLICE HOUSING CORPORATION LTD**

**Name of Work: Renovation works and Rest room with toilet, Cylinder room, Effluent Treatment Plant (ETP) and CCTV Camera arrangements for the Existing TNPCB office building at SIPCOT, Cuddalore in Cuddalore district.**

**ABSTRACT**

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
1.1		Earth work excavation in all soils (including refilling)			
	4.450	a. 0 to 2 mt.	237.08	Cum.	1055.01
1.5		Earth work excavation for Open foundation (excluding refilling)			
	48.600	a. 0 to 2 mt.	112.05	Cum.	5445.63
	4.700	b. 2 to 3 mt.	122.60	Cum.	576.22
2.1	11.600	Filling Msand	2000.90	Cum.	23210.44
3.1	9.150	C.C.1:5:10 for Foundation & Basement	5321.62	Cum.	48692.82
6.2	4.400	Brick work in C.M. 1:5 (F& B) using fly ash bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4")	7166.77	Cum.	31533.79
9.2		Brick work in C.M. 1:6 using fly ash bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4")			
	13.700	a. In Ground Floor	7173.18	Cum.	98272.57
	1.500	b. In First Floor	7332.38	Cum.	10998.57
10.5		Brick partition work in C.M. 1:4 fly ash 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.)			
		a. In Foundation and basement	900.21	Sqm.	
	19.500	b. In Ground Floor	908.89	Sqm.	17723.36
25.0	6.000	M.S.Holdfast	9.60	no	57.60
26.0	1.650	Flooring in C.C.1:5:10	5321.62	Cum.	8780.67
28.0	6.300	Floor plastering in C.M. 1:4, 20 mm tk.	517.37	Sqm.	3259.43
30.0	21.050	Ellispattern flooring	455.51	Sqm.	9588.49

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
31.0	2.350	Weathering course	3884.32	Cum.	9128.15
32.1	42.400	Finishing top of roof with one course of Hydraulic Pressed Tiles of approved superior quality of size 23cmx 23cmx20mm thick laid over weathering course in cm 1:3 12mm thick mixed with Water proofing compound at 2% by weight of cement	1196.20	Sqm	50718.88
33.0	245.100	Plastering in C.M. 1:5, 12 mm tk.	255.19	Sqm.	62547.07
35.0	26.300	Spl. Ceiling plastering in C.M. 1:3, 10 mm tk.	290.56	Sqm.	7641.73
36.0		<b>Cement mortar Border in C.M. 1:5, 12 mm tk.</b>			
		a. 150 mm wide	81.02	Rmt	
	42.300	b. 75 mm wide	52.70	Rmt	2229.21
37.1	26.250	White washing 3 coats (slaked)	45.28	Sqm.	1188.60
39.0	523.200	M.s Grills	70.15	Kg.	36702.48
40.0	5.500	Painting - New "wood work"	233.74	Sqm.	1285.57
41.0	26.400	Painting - New "iron work"	138.35	Sqm.	3652.44
47.0	1.000	S & F Alu Towel rail 75 cm long	95.00	Each	95.00
48.0	2.000	S & F 5 pin Coat stand	55.00	Each	110.00
52.0		<b>PVC Water supply (ASTM)</b>			
	20.000	a. 32 mm dia	252.54	Rmt	5050.80
	4.000	b. 25 mm dia	234.77	Rmt	939.08
		c. 20 mm dia	229.92	Rmt	
60.0	3.000	PVC Nahani trap (4way/2way)	160.00	Each	480.00
		<b>Electrical arrangements</b>			
72.0	1.000	Box type Fibre Fan hook	33.90	Each	33.90
76.0		8 SWG wire	27.13	Rmt	
74.0	1.000	Charges for fixing of "Fan"	601.20	Each	601.20
78.0		Earthing Station IS3043 (Type I)	2997.60	Each	

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
238.0	4.120	Anticorrosive treatment for MS Rod/RTS steel	4672.50	MT	19250.70
		<b>ANNEXURE</b>			
2.1.1	4.100	Supplying and filling with gravel	398.07	Cum	1632.09
8.1.1		<b>Standardised concrete Mix M30 Grade Concrete</b>			
	19.450	a. In Foundation and basement	8922.77	Cum	173547.88
	7.050	b. Ground Floor	9042.62	Cum	63750.47
14.II		<b>Precast Cupboard slab 40 mm tk.using standardised concrete mix M30 (annexure)</b>			
	1.450	a) In foundation and basement	1685.85	Sqm.	2444.48
15.10		<b>Precast jally ventilator 50mm thick,M30 Grade concrete</b>			
	1.800	a. In Ground floor	2996.31	Sqm.	5393.36
		b. In First floor	3005.20	Sqm.	
18.1		<b>Formwork using M.S.Sheet</b>			
	29.900	a.For Column footings,plinth beam,Grade beam,Raftbeam,Raft slab etc.,	848.08	Sqm	25357.59
	48.450	b.Plain surfaces such as Roof slab,floorslab,Beams,lintels,lofts,sill slab,staircase,portico slab and other similar works	946.62	Sqm	45863.74
	26.300	c.For Square and rectangular columns and small quantities	1135.94	Sqm	29875.22
	139.000	d.Vertical wall	1041.28	Sqm	144737.92
21.60		<b>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)</b>			
	1.000	a. 900 x 2100 mm	2806.56	No	2806.56
21.5.2	4.750	Supply and Fixing Soild UPVC door Shutter with frame PWD SR	3325.00	Sqm	15793.75
29.8	10.250	Glazed tiles using Grout (Tile Joint Filler)	1379.02	Sqm	14134.96
29.9	6.700	Floor ceramic tiles (Anti-skid) using Grout (Tile Joint Filler).	1215.30	Sqm	8142.51

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
38.7	196.700	Plastic Emulsion PAINT including primer for inner walls	231.43	Sqm	45522.28
38.7	162.800	Exterior Emulsion PAINT including primer for outer walls	232.98	Sqm	37929.14
43.0	4.120	Fabrication of <b>Mild steel / RTS grills (without cement slurry) for all sizes of rods.PVC Binding wire</b>	89024.30	MT	366780.12
44.6	14.000	PVC SWR 110 mm dia with ISI mark type- A for <b>Rain water down fall pipe</b>	347.53	Rmt	4865.42
52.4	13.500	20mm dia PVC water supply ASTM pipe (fully consealed in walls)	231.92	Rmt	3130.92
54.1	8.000	S & F of 15mm dia half turn CP Long body tap	488.00	Each	3904.00
54.2	8.000	S & F of 15mm dia half turn CP short body tap	440.00	Each	3520.00
56.3	1.000	S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm - in G.F.	3341.02	Each	3341.02
	1.000	S & F of E.W.C.(White) 500 mm with PVC SWR grade "P" or "S" TRAP	7114.20	Each	7114.20
	1.000	Wash Hand Basin of size 550 x 400 mm (White without Pedestal)	3337.32	Each	3337.32
58.3		<b>PVC SWR pipe (Soil line) with ISI mark - type 'B'.</b>			
	4.500	a. 110 mm dia.	717.55	Rmt	3228.98
	6.000	b. 75 mm dia.	600.25	Rmt	3601.50
61.1		<b>UPVC Non Pressure pipe of SN8 SDR 34 ( S 16.5) as per IS 15328/2003</b>			
	75.000	a. 110 mm UPVC Non Pressure pipe	481.39	Rmt	36104.25
		b. 160 mm UPVC Non Pressure pipe	805.55	Rmt	
64.1		Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990. ( PVC Box , Fire Retarded Box) For Coastal only			
	5.000	a. Light point with ceiling rose	1679.00	Each	8395.00
	4.000	b. Light point without ceiling rose	1682.00	Each	6728.00



Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
	1.000	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.(PVC Electrical Box )	1734.10	Each	1734.10
67.1	2.000	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.	864.50	Each	1729.00
67.2	2.000	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.(PVC Electrical Box )	1161.40	Each	2322.80
	15.000	Supply and laying of 2 x 10 sq.mm PVC armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 metre layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good etc., complete in all respects and as directed by the departmental officers. <b>SD</b>	430.00	Rmt	6450.00
70.1	2.000	S & F of Bulk head fitting suitable for LED 12W	529.20	Each	1058.40
70.4	5.000	25W LED Street lights fittings	3460.00	Each	17300.00
70.5	2.000	Supply assembling and fixing of 18 watts LED tube light with fitting of four feet long	705.00	Each	1410.00
		<b>S&amp;F of LED Bulb</b>			
	2.000	a)12W Bulb <b>Qtn</b>	170.00	Each	340.00
	3.000	b). 9W Bulb ( <b>PWD SR P-121/2023-24</b> )	135.00	Each	405.00
75.00	1.000	Supply and delivery of <b>48" (1200 mm) Fan</b> with ISI mark with Eletronic Dimmer	1552.00	Each	1552.00
77.5	20.000	Run of 2 Wires of 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.	214.90	Rmt	4298.00

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
		Supplying and fixing of Solid Core Flush shutters with ommercial ply on both side with teakwook lipping alround 35mm thick, Alround fully Teak wood Beading 35mm x 12mm, 125mm x 30mm butt hinges - 3 No's, 150mm x 12mm Tower bolt - 2 No's, 5" Aldrop -1 No, 'D' type Handle 100mm - 2 No's,Rubber Bush -			
	1.700	i. door size 0.900 m x 2.100 (Single Leaf)	3079.64	Sqm	5235.39
	5.000	Supplying and fixing of 225 mm dia sweep AC exhaust fan of approved ISI Quality	2179.00	No	10895.00
238.1	2.569	Anticorrosive treatment for window grills	2867.75	MT	7367.25
	4.000	Supply and erection of Rotational Moulded Poly ethylene triple layer (White Colour) water storage tanks (HDPE Cylindrical vertical type) for outdoor use having capacity of 1000 litres PWD SR P-54/2023-25	10050.00	No	40200.00
	10.760	Supply and Laying of Nano Polish Virtified 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	13544.04
	17.500	Supply and laying superior variety Designer Tiles for flooring in CM 1:3 (One of Cement and three of sand) 20mm thick,	1488.67	Sqm	26051.73
	7.200	Supply and Laying of Granite tile of 10mm thk (wall Cladding ) in (super fine polished with machine cut edges of size 2' x 1', 10mm thick, Ruby red) using grout joint, laid over C.M 1:2 (One of cement and three of crushed stone sand) 20mm thick including fixing in position, cutting the tiles to the required size wherever necessary,	1713.02	Sqm	12333.74
	27.000	Laying the below diameter of double under reemed pile upto required depth/length using any grade of concrete. The cost is inclusive of driving the pile to required depth/length using tractor rigs or percussion type drilling rigs, pumping in & circulating bentonite powder flushing the bore hole including required pile	2696.89	Rmt	72816.03
	12.800	Dismantling the damaged pressed tiles laid over cement mortar without affecting the adjacent structures in all floors including the cost of required tools and plants and clearing the debris away from the site etc., complete (PWD SR P-22/ 2023-24)	23.20	Sqm	296.96

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
	22.400	Clean removal of cement plaster from walls and racking out joints etc, all complete and as directed by the departmental officers. ( PWD SR P26/ 2023-24)	10.20	Sqm	228.48
	22.400	Plastering with CM 1:5 (One of cement and five of sand) 20mm thick finishd with neat cement including providing band cornice, ceiling cornice, curing scaffolding etc., complete in all respects and complying with relevant standard specifications.	507.80	Sqm	11374.72
	358.300	Terrace water proofing work: The existing pressed tiles surface to cleaning water wash using with wire brush, the tiles joints are rack out using machine without damaging the existing structure and clean the joint. Fosroc chemical , <b>SER.No.19/2022-23</b>	592.00	Sqm	212113.60
	710.000	White washing two coats for old wall or ceiling using clean shell lime slaked including cost of lime, gum, blue, brushes, including scaffolding etc., complete in all respects.	33.55	Sqm	23820.50
	3088.000	Painting two coats for old wall with ready mixed PLASTIC EMULSION PAINT of first class quality paint of approved colour and shade, including cost of materials, necessary brushes, labour charges, patty etc.	165.57	Sqm	511280.16
	164.000	Painting the Old Iron work and other similar works such as PVC /ASTM Pipes, Kerb Stone and grills with two coats of approved first class synthetic enamel ready mixed paint	139.98	Sqm	22956.72
	91.000	Painting the Old wood work with two coats of approved first class synthetic enamel ready mixed paint of approved quality and brand, including the cost of paint, brushes, sand paper and scrapping etc., all complete and as directed by the departmental officers	159.19	Sqm	14486.29
	41.800	Supplying, fabricating, erecting and fixing 8mm thick Calcium Silicate Board Designed and Perforated for False Ceiling using G.I perimeter channel of size 0.55mm thick PWD SR Pg.60 / 2023-24 M-0627	1545.00	Sqm	64581.00
	27.000	Providing cornice work for GYP Board false ceiling Etc., all complete and as directed by the Departmental Officer (As per PWD SR Pg.60 / 2023-24 ) M-0629	190.40	Rmt	5140.80

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
	15.000	Supplying and fixing of of 24W LED Fitting (4000K 2x2 square type recessed fittings with LED) for false ceiling, PWD SR P-121/2023-24 M-1287	2511.00	No	37665.00
	4.000	Supply, delivery & fixing of Split type Air conditioner 2 Ton, 2HW, 180A, 3 Star with 10 feet of copper tube with 5KVA Capacity automatic voltage stabilizer (As per PWD SR Pg.153 / 2023-24 ) M-1985	56370.00	No	225480.00
	4.000	Supplying and fixing of 5KVA Capacity automatic voltage stabilizer ,including cost of all materials etc., all complete and as directed by the Departmental Officers (As per PWD SR Pg.154 / 2023-24 ) M-1989	4940.00	No	19760.00
	4.000	Supply, fabrication and fixing of MS Channel for Mounting the Airconditioning Outdoor Unit, including cost of all materials etc., all complete and as directed by the Departmental Officers (As per PWD SR Pg.154 / 2023-24 ) M-2012	6230.00	No	24920.00
	59.400	Providing Ordinary Vertical blinds for windows with best quality including cost of blinds with necessary nails, plugs & equipments and labour for fixing etc, all complete and as directed by the departmental officers., (The quality and brand should be got approved from Executive Engineer before use). (As per PWD SR Pg.62 /	922.00	Sqm	54766.80
	32.000	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.(open wiring)	149.40	Rmt	4780.80
	60.000	Run of 2 Wires of 4 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.(open wiring)	179.80	Rmt	10788.00
		Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990. (Open wiring)			
	6.000	a. Light point with ceiling rose	921.20	No	5527.20
	6.000	b. Light point without ceiling rose	923.20	No	5539.20
	5.700	Supply and fixing of Aluminium partion supplying and fixing of aluminium with fixed glass extruction as detailed below and anodized for 15 microns	4817.18	Sqm	27457.93

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
	16.400	Washing the floor and wall tiles using with acid (Floor wash acid), including labour charges and cost of materials etc., all complete and as directed by the departmental officers including cost of tools and planks etc ,complete. DATA	41.53	Sqm	681.09
	32.100	Dampness rectification in existing Bath, Toilet area by Epoxy pointing to the anti skid floor tiles, including the cost of chemical, admixtures and labour charges with leakage test etc., all complete and as directed by the departmental officers. Qtn	620.00	Sqm	19902.00
	5.000	Providing Core cutting the existing wall for fixing the Exhaust fan including labour charges and ost of tools & materials etc., Qtn	1800.00	No	9000.00
	8.000	Supply and fixing of Hydraulic Door Closer of various sizes of approved quality PWD SR P-44/2023-24	1008.00	No	8064.00
	11.500	Supplting, manufacturing and fixing of Cupboard /wardrobs enclosure made with 20mm Ply wood Qtn	5800.00	Sqm	66700.00
	15.200	Supplting, manufacturing and fixing of Partially Glazed Cupboard /wardrobs enclosure made with 20mm Ply wood Qtn	6200.00	Sqm	94240.00
		<b>CYLINDER ROOM</b>			
		Supplying and fixing of following specilas for LPG gas pipe line arrangements Qtn			
	5.000	Brass Adaptor	280.00	No	1400.00
	5.000	3 Feet flexible tube	555.00	No	2775.00
	5.000	Non return valve 1/2" brass	280.00	No	1400.00
	2.000	5 way Cylinder Mani Fold 1"	1650.00	No	3300.00
	4.000	1"CLAMP	100.00	No	400.00
	26.500	1/2" M.S 'C' class PIPE	750.00	Rmt	19875.00
	2.000	1/2" GAS Ball Valve	1050.00	No	2100.00
	6.000	1/2 X 1/2 MS Adapter	80.00	No	480.00
	1.000	RG 2 Stage Regulator with Pressure Guage	2500.00	No	2500.00
	5.000	Gas regulator	350.00	No	1750.00
	5.000	1/2" Union MS with brass	310.00	No	1550.00

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
	5.000	3/4" Bush	98.00	No	490.00
	2.000	Needle valve	330.00	No	660.00
	5.000	Pressure Gauge	520.00	No	2600.00
	50.000	Pipe clamp	60.00	No	3000.00
	4.000	Dummy nut	140.00	No	560.00
	2.000	Copper pipe 0.45m for LPG gas pipe line	530.00	No	1060.00
	2.000	Air clamp	45.00	No	90.00
	2.000	G - 11 head	687.00	No	1374.00
	1.000	DCB	688.00	No	688.00
	5.000	Elbow 1/2"	97.00	No	485.00
		<b>EFFLUENT TREATMENT PLANT</b>			
	36.600	Supplying and fixing stainless steel hand railing 304 grade with top railing tube of 50mm 304 grade with top railing tube of 50mm dia of 12 gauge PWD SR P-62/2023-24	5536.00	Rmt	202617.60
	1.000	Supplying and delivery of a soft, flexible, lightweight plastic material and low temperature flexibility, toughness, and corrosion resistance LDPE (Low density poly ethylene) Tank 100 Liters capacity <b>Qtn</b>	3750.00	No	3750.00
	2.000	Supply and erection of Rotational Moulded Poly ethylene triple layer (White Colour) water storage tanks (HDPE Cylindrical vertical type) for outdoor use having capacity of <b>2000 litres</b> PWD SR P-54/2023-24	20100.00	No	40200.00
	20.000	Supplying , delivery and fixing of 1HP Electric Mono block centrifugal pump of TEXMO / KIRLOSKAR or equivalent <b>Qtn</b>	10500.00	No	210000.00
	45.000	Supply and Laying of 4 x 16 sq.mm. PVC armoured LTUG cable in suitable size HDPE pipe in a trench to be excavated at a depth of 0.75 metre and refilling the earth to make good. <b>SD 745</b>	404.00	Rmt	18180.00
		Supplying, laying, fixing and jointing the following dia CPVC (Chlorinated Poly Vinyl Chloride) Pipe			
	100.000	a) 25mm CPVC Pipe	442.53	Rmt	44253.00

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
	50.000	b) 50mm CPVC Pipe	597.23	Rmt	29861.50
		<b>CCTV Camera arrangements</b>			
1.0	4.000	Suuply, Installation, Testing and Commissioning of Indoor CCTV Camera for night view (IP Dome Camera with IR) CER.No.103/23-24	16830.00	No	67320.00
2.0	1.000	Suuply, Installation, Testing and Commissioning of Outdoor CCTV Camera for night view (IP Bullet Camera with IR CER.No.103/23-24	17500.00	No	17500.00
3.0	1.000	Suuply, Installation, Testing for Pan -Tit-Zoom (360 degree Surveillance) of Outdoor CCTV Camera for night view (IP PTZ 360 degree Camera with IR) QTN CER.No.103/23-24	71175.00	No	71175.00
4.0	1.000	Suuply, Installation, Testing and Commissioning of 16 Channel Network video recorder QTN CER.No.103/23-24	33000.00	No	33000.00
5.0	1.000	Suuply, Installation, Testing and Commissioning of Storage HDD 12TB Hard Disk (4TB*3) QTN CER.No.103/23-24	46800.00	No	46800.00
6.0	1.000	Suuply, Installation, Testing and Commissioning of Monitor 24" QTN CER.No.103/23-24	27950.00	No	27950.00
7.0	1.000	Suuply and Fixing the UPS 1 KVA for Cameras and Video recorder QTN CER.No.103/23-24	65550.00	No	65550.00
8.0	1.000	Suuply and Fixing of 8 port POE Switch QTN CER.No.103/23-24	33300.00	No	33300.00
9.0	15.000	Supply and Installation PVC Encloser Box IP66 For Camera etc.,all complete and as directed by the departmental officers QTN CER.No.150/23-24	104.00	No	1560.00
10.0	1.000	Supply Installation of PTZ MOUNT KIT etc.,all complete and as directed by the departmental officers. QTN CER.No.150/23-24	1725.00	No	1725.00
11.0	1525.000	Supply of CAT 6E Honeywell Cable 23SWG 305 MTRS etc.,all complete and as directed by the departmental officers. QTN CER.No.150/23-24	23.16	No	35319.00
12.0	2.000	Supply and Installation 6U Rack with power spike & Two Tary 550D rack, Rackmountinf screws, etc all complete as directed by department officers. QTN CER.No.150/23-24	5577.50	No	11155.00

Sl. NO.	QTY	DESCRIPTION	RATE	UNIT	TOTAL AMOUNT
13.0	2.000	Supply and Installation of HDMI Cable 5 Mtrs Hifocus etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	345.00	No	690.00
14.0	1.000	Supply and Installation of 1.5 Mtrs HDMI cable Hifocus etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	150.00	No	150.00
15.0	1.000	Supply and Installation of HDMI Splitter Genric etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	863.00	No	863.00
16.0	1.000	Supply and Installation of Marx HDMI extender 60 mtrs through cat6E (for 3RD TV SP Viewing) etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	6040.00	No	6040.00
17.0	200.000	Installation of CAT 6E cable installation in provided pvc pipe, camer installation fixing of enclouser box for camera etc.,all complete as directed by the departmental officers.QTN CER.No.150/23-24	20.00	Rmt	4000.00
18.0	6.000	Installation & Configuration, Testing of camera as directed by the departmental officer QTN CER.No.150/23-24	350.00	No	2100.00
19.0	1.000	NVR Installation & Configuration, Testing, Commissioning and as directed by the departmental officers. QTN CER.No.150/23-24	16675.00	No	16675.00
20.0	200.000	Supply and Installation of PVC PIPE WITH CLAMP, SCREWS, BEND, JUNCTION ETC FOR 300 MTRS. QTN CER.No.150/23-24	155.00	Rmt	31000.00
		<b>Total</b>			<b>4311696.96</b>



Name of Work: Renovation works and Rest room with toilet, Cylinder room, Effluent Treatment Plant (ETP) and CCTV Camera arrangements for the Existing TNPCB office building at SIPCOT, Cuddalore in Cuddalore district.

Sl. No.	DESCRIPTION	RATE	UNIT	RENOVATION WORK		REST ROOM WITH TOILET		CYLINDER ROOM		EFFLUENT TREATMENT PLANT		CCTV CAMERA ARRANGEMENTS		RENOVATION + DEVE. TOTAL QTY	TOTAL AMOUNT
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
1.1	Earth work excavation in all soils (including refilling)														
	a. 0 to 2 mt.	237.08	Cum.			4.450	1055.01							4.450	1055.01
	b. 2 to 3 mt.	247.63	Cum.												
1.5	Earth work excavation for Open foundation (excluding refilling)														
	a. 0 to 2 mt.	112.05	Cum.					4.600	515.43	44.000	4930.20			48.600	5445.63
	b. 2 to 3 mt.	122.60	Cum.							4.700	576.22			4.700	576.22
2.1	Filling Msand	2000.90	Cum.	2.400	4802.16	3.200	6402.88	3.600	7203.24	2.400	4802.16			11.600	23210.44
3.1	C.C.1:5:10 for Foundation & Basement	5321.62	Cum.	1.600	8514.59	1.550	8248.51	3.600	19157.83	2.400	12771.89			9.150	48692.82
6.2	Brick work in C.M. 1:5 (F& B) using fly ash bricks of size 22 x 11 x 7 cm (8 3/4" x 4 1/4" x 2 3/4")	7166.77	Cum.			3.800	27233.73	0.600	4300.06					4.400	31533.79
9.2	Brick work in C.M. 1:6 using fly ash bricks of size 22 x 11 x 7 cm ( 8 3/4" x 4 1/4" x 2 3/4")														
	a. In Ground Floor	7173.18	Cum.			9.000	64558.62	4.700	33713.95					13.700	98272.57
	b. In First Floor	7332.38	Cum.			1.500	10998.57							1.500	10998.57
10.5	Brick partition work in C.M. 1:4 fly ash 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.)														
	a. In Foundation and basement	900.21	Sqm.												
	b. In Ground Floor	908.89	Sqm.			19.500	17723.36							19.500	17723.36
25.0	M.S.Holdfast	9.60	no			6.000	57.60							6.000	57.60
26.0	Flooring in C.C.1:5:10	5321.62	Cum.			1.650	8780.67							1.650	8780.67
28.0	Floor plastering in C.M. 1:4, 20 mm tk.	517.37	Sqm.			6.300	3259.43							6.300	3259.43
30.0	Ellispattern flooring	455.51	Sqm.	15.950	7265.38	2.550	1161.55	2.550	1161.55					21.050	9588.49
31.0	Weathering course	3884.32	Cum.			2.350	9128.15							2.350	9128.15
32.1	Finishing top of roof with one course of Hydraulic Pressed Tiles of approved superior quality of size 23cmx 23cmx20mm thick laid over weathering course in cm 1:3 12mm thick mixed with Water proofing compound at 2% by weight of cement	1196.20	Sqm	12.800	15311.36	29.600	35407.52							42.400	50718.88
33.0	Plastering in C.M. 1:5, 12 mm tk.	255.19	Sqm.			209.800	53538.86	35.300	9008.21					245.100	62547.07





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Sl. No.	Description	Rate	Unit	Renovation Work		Rest Room with Toilet		Cylinder Room		Effluent Treatment Plant		CCTV Camera Arrangements		Renovation + Deve. Total Qty	Total Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
	Laying the below diameter of double under reamed pile upto required depth/length using any grade of concrete. The cost is inclusive of driving the pile to required depth/length using tractor rigs or percussion type drilling rigs, pumping in & circulating bentonite powder	2696.89	Rmt			27.000	72816.03							27.000	72816.03
	Dismantling the damaged pressed tiles laid over cement mortor without affecting the adjacent structures in all floors including the cost of required tools and plants and clearing the debris away from the site etc., complete (PWD SR P-22/ 2023-24)	23.20	Sqm	12.800	296.96									12.800	296.96
	Clean removal of cement plaster from walls and racking out jointns etc, all complete and as directed by the departmental officers. ( PWD SR P26/ 2023-24)	10.20	Sqm	22.400	228.48									22.400	228.48
	Plastering with CM 1:5 (One of cement and five of sand) 20mm thick finishd with neat cement including providing band cornice, ceiling cornice, curing scaffolding etc., complete in all repects and complying with relevant standard specifications.	507.80	Sqm	22.400	11374.72									22.400	11374.72
	Terrace water proofing work: The existing pressed tiles surface to cleaning water wash using with wire brush, the tiles joints are rack out using machine without damaging the existing structure and clean the joint. Fosroc chemical , <b>SER.No.19/2022-23</b>	592.00	Sqm	358.300	212113.60									358.300	212113.60
	White washing two coats for old wall or ceiling using clean shell lime slaked including cost of lime, gum, blue, brushes, including scaffolding etc., complete in all respects.	33.55	Sqm	710.000	23820.50									710.000	23820.50
	Painting two coats for old wall with ready mixed PLASTIC EMULSION PAINT of first class quality paint of approved colour and shade, including cost of materials, necessary brushes, labour charges, patty etc.	165.57	Sqm	3088.000	511280.16									3088.000	511280.16
	Painting the Old Iron work and other similar works such as PVC /ASTM Pipes, Kerb Stone and grills with two coats of approved first class synthetic enamel ready mixed paint	139.98	Sqm	164.000	22956.72									164.000	22956.72
	Painting the Old wood work with two coats of approved first class synthetic enamel ready mixed paint of approved quality and brand, including the cost of paint, brushes, sand paper and scrapping etc., all complete and as directed by the departmental officers	159.19	Sqm	91.000	14486.29									91.000	14486.29
	Supplying, fabricating, erecting and fixing 8mm thick Calcium Silicate Board Designed and Perforated for False Ceiling using G.I perimeter channel of size 0.55mm thick PWD SR Pg.60 / 2023-24 JM-0627	1545.00	Sqm	41.800	64581.00									41.800	64581.00



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Sl. NO.	DESCRIPTION	RATE	UNIT	RENOVATION WORK		REST ROOM WITH TOILET		CYLINDER ROOM		EFFLUENT TREATMENT PLANT		CCTV CAMERA ARRANGEMENTS		RENOVATION + DEVE. TOTAL QTY	TOTAL AMOUNT
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
	Washing the floor and wall tiles using with acid (Floor wash acid), including labour charges and cost of materials etc., all complete and as directed by the departmental officers including cost of tools and planks etc ,complete. DATA	41.53	Sqm	16.400	681.09									16.400	681.09
	Dampness rectification in existing Bath, Toilet area by Epoxy pointing to the anti skid floor tiles, including the cost of chemical, admixtures and labour charges with leakage test etc., all complete and as directed by the departmental officers. Qtn	620.00	Sqm	32.100	19902.00									32.100	19902.00
	Providing Core cutting the existing wall for fixing the Exhaust fan including labour charges and ost of tools & materials etc., Qtn	1800.00	No	5.000	9000.00									5.000	9000.00
	Supply and fixing of Hydraulic Door Closer of various sizes of approved quality PWD SR P-44/2023-24	1008.00	No	8.000	8064.00									8.000	8064.00
	Supplting, manufacturing and fixing of Cupboard /wardrobs enclosure made with 20mm Ply wood Qtn	5800.00	Sqm	11.500	66700.00									11.500	66700.00
	Supplting, manufacturing and fixing of Partially Glazed Cupboard /wardrobs enclosure made with 20mm Ply wood Qtn	6200.00	Sqm	15.200	94240.00									15.200	94240.00
	<b>CYLINDER ROOM</b>														
	Supplying and fixing of following specilas for LPG gas pipe line arrangements Qtn														
	Brass Adaptor	280.00	No					5.000	1400.00					5.000	1400.00
	3 Feet flexible tube	555.00	No					5.000	2775.00					5.000	2775.00
	Non return valve 1/2" brass	280.00	No					5.000	1400.00					5.000	1400.00
	5 way Cylinder Mani Fold 1"	1650.00	No					2.000	3300.00					2.000	3300.00
	1"CLAMP	100.00	No					4.000	400.00					4.000	400.00
	1/2" M.S 'C' class PIPE	750.00	Rmt					26.500	19875.00					26.500	19875.00
	1/2" GAS Ball Valve	1050.00	No					2.000	2100.00					2.000	2100.00
	1/2 X 1/2 MS Adapter	80.00	No					6.000	480.00					6.000	480.00
	RG 2 Stage Regulator with Pressure Guage	2500.00	No					1.000	2500.00					1.000	2500.00
	Gas regulator	350.00	No					5.000	1750.00					5.000	1750.00
	1/2" Union MS with brass	310.00	No					5.000	1550.00					5.000	1550.00
	3/4" Bush	98.00	No					5.000	490.00					5.000	490.00
	Needle valve	330.00	No					2.000	660.00					2.000	660.00
	Pressure Gauge	520.00	No					5.000	2600.00					5.000	2600.00
	Pipe clamp	60.00	No					50.000	3000.00					50.000	3000.00
	Dummy nut	140.00	No					4.000	560.00					4.000	560.00

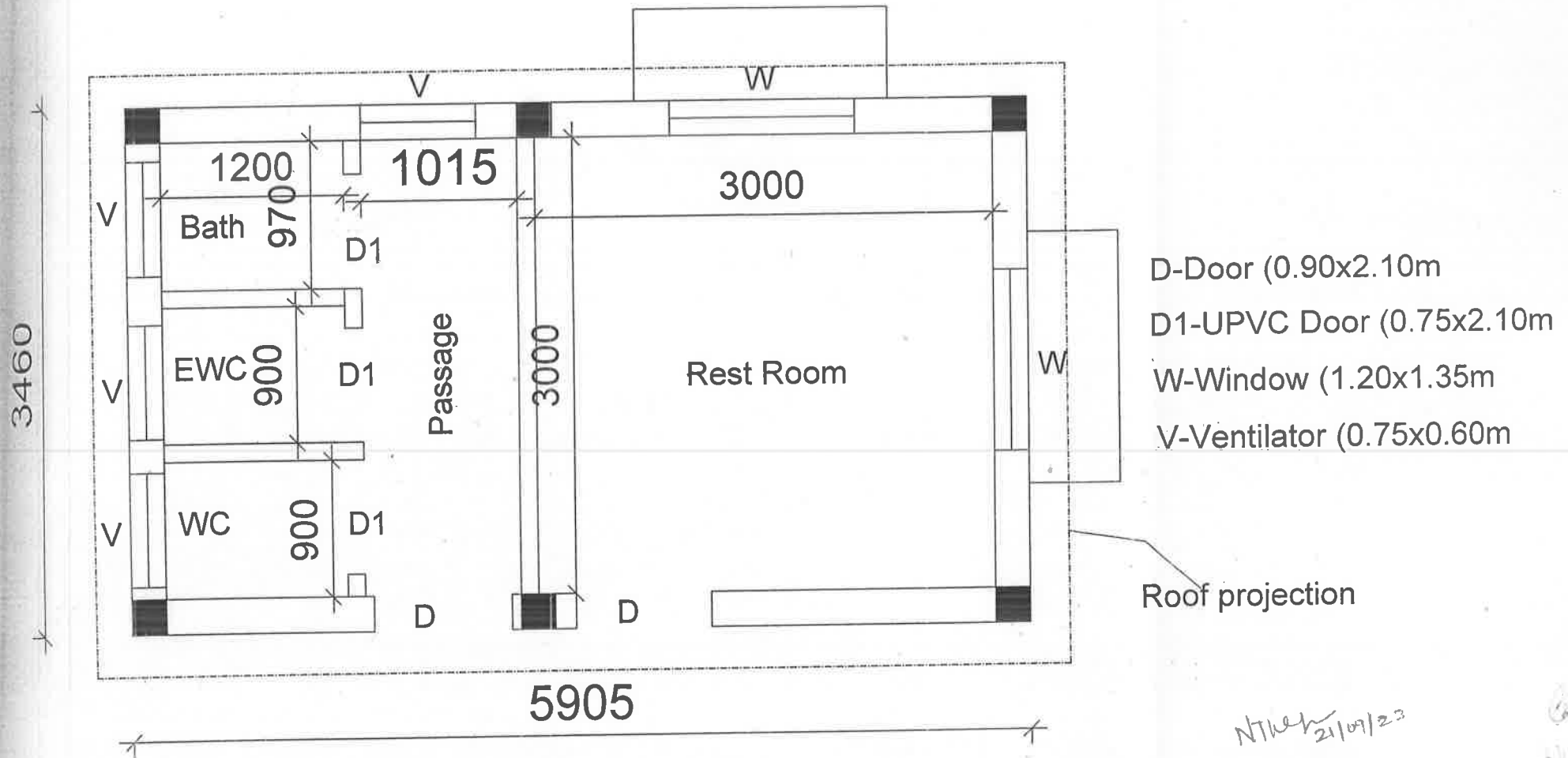


Sl. NO.	DESCRIPTION	RATE	UNIT	RENOVATION WORK		REST ROOM WITH TOILET		CYLINDER ROOM		EFFLUENT TREATMENT PLANT		CCTV CAMERA ARRANGEMENTS		RENOVATION + DEVE. TOTAL QTY	TOTAL AMOUNT
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
	Copper pipe 0.45m for LPG gas pipe line	530.00	No					2.000	1060.00					2.000	1060.00
	Air clamp	45.00	No					2.000	90.00					2.000	90.00
	G - 11 head	687.00	No					2.000	1374.00					2.000	1374.00
	DCB	688.00	No					1.000	688.00					1.000	688.00
	Elbow 1/2"	97.00	No					5.000	485.00					5.000	485.00
	<b>EFFLUENT TREATMENT PLANT</b>														
	Supplying and fixing stainless steel hand railing 304 grade with top railing tube of 50mm 304 grade with top railing tube of 50mm dia of 12 gauge PWD SR P-62/2023-24	5536.00	Rmt							36.600	202617.60			36.600	202617.60
	Supplying and delivery of a soft, flexible, lightweight plastic material and low temperature flexibility, toughness, and corrosion resistance LDPE (Low density poly ethylene) Tank 100 Liters capacity Qtn	3750.00	No							1.000	3750.00			1.000	3750.00
	Supply and erection of Rotational Moulded Poly ethylene triple layer (White Colour) water storage tanks (HDPE Cylindrical vertical type) for outdoor use having capacity of 2000 litres PWD SR P-54/2023-24	20100.00	No							2.000	40200.00			2.000	40200.00
	Supplying , delivery and fixing of 1HP Electric Mono block centrifugal pump of TEXMO / KIRLOSKAR or equivalent Qtn	10500.00	No							20.000	210000.00			20.000	210000.00
	Supply and Laying of 4 x 16 sq.mm. PVC armoured LTUG cable in suitable size HDPE pipe in a trench to be excavated at a depth of 0.75 metre and refilling the earth to make good. SD 745	404.00	Rmt							45.000	18180.00			45.000	18180.00
	Supplying, laying, fixing and jointing the following dia CPVC (Chlorinated Poly Vinyl Chloride) Pipe														
	a) 25mm CPVC Pipe	442.53	Rmt							100.000	44253.00			100.000	44253.00
	b) 50mm CPVC Pipe	597.23	Rmt							50.000	29861.50			50.000	29861.50
	<b>CCTV Camera arrangements</b>														
1.0	Suuply, Installation, Testing and Commissioning of Indoor CCTV Camera for night view (IP Dome Camera with IR) CER.No.103/23-24	16830.00	No									4.000	67320.00	4.000	67320.00
2.0	Suuply, Installation, Testing and Commissioning of Outdoor CCTV Camera for night view (IP Bullet Camera with IR CER.No.103/23-24	17500.00	No									1.000	17500.00	1.000	17500.00
3.0	Suuply, Installation, Testing for Pan -Tit-Zoom (360 degree Surveillance) of Outdoor CCTV Camera for night view (IP PTZ 360 degree Camera with IR) QTN CER.No.103/23-24	71175.00	No									1.000	71175.00	1.000	71175.00

Sl. NO.	DESCRIPTION	RATE	UNIT	RENOVATION WORK		REST ROOM WITH TOILET		CYLINDER ROOM		EFFLUENT TREATMENT PLANT		CCTV CAMERA ARRANGEMENTS		RENOVATION + DEVE. TOTAL QTY	TOTAL AMOUNT
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
4.0	Suuply, Installation, Testing and Commissioning of 16 Channel Network video recorder QTN CER.No.103/23-24	33000.00	No									1.000	33000.00	1.000	33000.00
5.0	Suuply, Installation, Testing and Commissioning of Storage HDD 12TB Hard Disk (4TB*3) QTN CER.No.103/23-24	46800.00	No									1.000	46800.00	1.000	46800.00
6.0	Suuply, Installation, Testing and Commissioning of Monitor 24" QTN CER.No.103/23-24	27950.00	No									1.000	27950.00	1.000	27950.00
7.0	Suuply and Fixing the UPS 1 KVA for Cameras and Video recorder QTN CER.No.103/23-24	65550.00	No									1.000	65550.00	1.000	65550.00
8.0	Suuply and Fixing of 8 port POE Switch QTN CER.No.103/23-24	33300.00	No									1.000	33300.00	1.000	33300.00
9.0	Supply and Installation PVC Encloser Box IP66 For Camera etc.,all complete and as directed by the departmental officers QTN CER.No.150/23-24	104.00	No									15.000	1560.00	15.000	1560.00
10.0	Supply Installation of PTZ MOUNT KIT etc.,all complete and as directed by the departmental officers. QTN CER.No.150/23-24	1725.00	No									1.000	1725.00	1.000	1725.00
11.0	Supply of CAT 6E Honeywell Cable 23SWG 305 MTRS etc.,all complete and as directed by the departmental officers. QTN CER.No.150/23-24	23.16	No									1525.000	35319.00	1525.000	35319.00
12.0	Supply and Installation 6U Rack with power spike & Two Tary 550D rack, Rackmountinf screws, etc all complete as directed by department officers. QTN CER.No.150/23-24	5577.50	No									2.000	11155.00	2.000	11155.00
13.0	Supply and Installation of HDMI Cable 5 Mtrs Hifocus etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	345.00	No									2.000	690.00	2.000	690.00
14.0	Supply and Installation of 1.5 Mtrs HDMI cable Hifoucs etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	150.00	No									1.000	150.00	1.000	150.00
15.0	Supply and Installation of HDMI Spliter Genric etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	863.00	No									1.000	863.00	1.000	863.00
16.0	Supply and Installation of Marx HDMI extender 60 mtrs through cat6E (for 3RD TV SP Viewing) etc.,all complete as directed by the departmental officers. QTN CER.No.150/23-24	6040.00	No									1.000	6040.00	1.000	6040.00
17.0	Installation of CAT 6E cable installation in provided pvc pipe, camer installation fixing of enclouser box for camera etc.,all complete as directed by the departmental officers.QTN CER.No.150/23-24	20.00	Rmt									200.000	4000.00	200.000	4000.00
18.0	Installation & Configuration, Testing of camera as directed by the departmental officer QTN CER.No.150/23-24	350.00	No									6.000	2100.00	6.000	2100.00

Sl. NO.	DESCRIPTION	RATE	UNIT	RENOVATION WORK		REST ROOM WITH TOILET		CYLINDER ROOM		EFFLUENT TREATMENT PLANT		CCTV CAMERA ARRANGEMENTS		RENOVATION + DEVE. TOTAL QTY	TOTAL AMOUNT
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
19.0	NVR Installation & Configuration, Testing, Commissioning and as directed by the departmental officers. QTN CER.No.150/23-24	16675.00	No									1.000	16675.00	1.000	16675.00
20.0	Supply and Installation of PVC PIPE WITH CLAMP, SCREWS, BEND, JUNCTION ETC FOR 300 MTRS. QTN CER.No.150/23-24	155.00	Rmt									200.000	31000.00	200.000	31000.00
	<b>Total</b>				<b>1623267.50</b>		<b>898351.92</b>		<b>175348.42</b>		<b>1140857.12</b>		<b>473872.00</b>		<b>4311696.96</b>

N/W: Construction of Rest room with Toilet arrangements for Existing TNPCB office at SIPCOT, Cuddalore in Cuddalore district



*T. Saravanan*  
AS 04/01/23

*W. S. S.*  
04/09/23  
AES/02

*[Signature]*  
4/9/2023  
Joint Chief Environmental Engineer (N)

Tamil Nadu Pollution Control Board  
Cuddalore

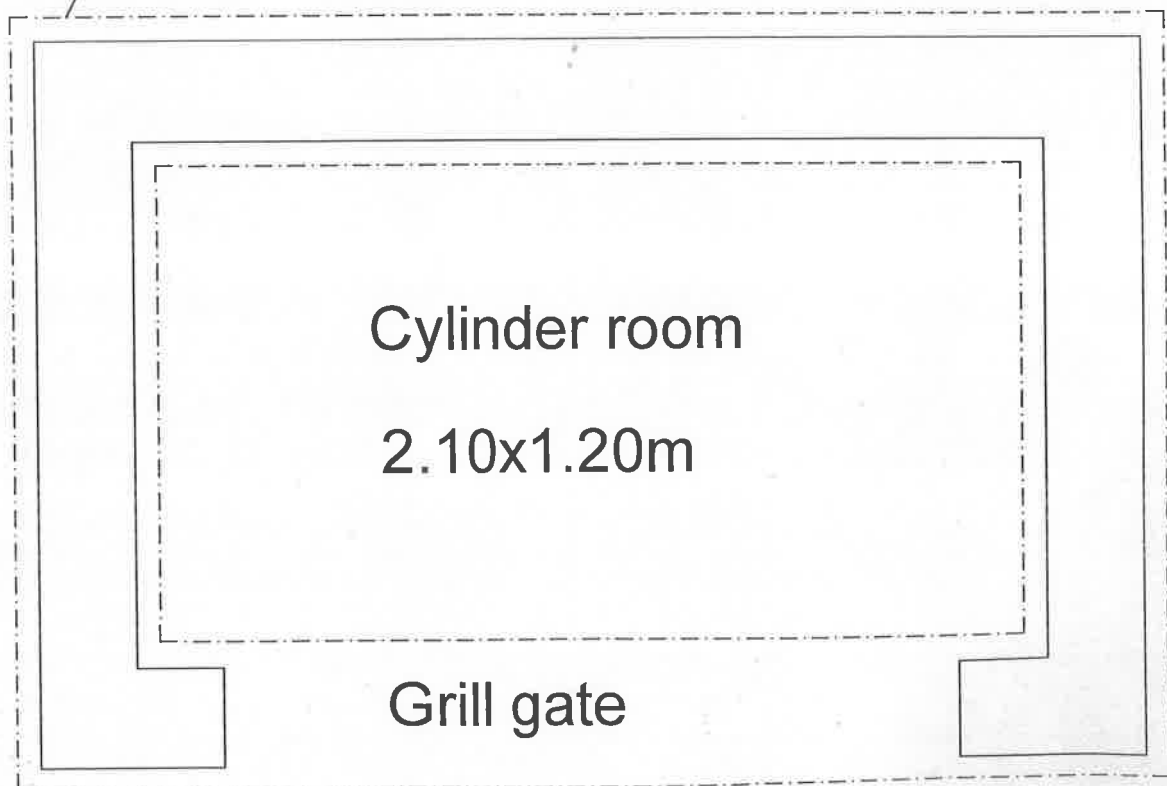
NTW 21/07/23  
AE/Plg

SE/NC

Executive Engineer  
TNPHC / Salem-2.

N/W: Providing Cylinder room for the Existing TNPCB office building at SIPCOT, Cuddalore in Cuddalore district.

Foundation Brick work in CM 1:5



*P. Srinivasan*  
AE 04/09/23

*[Signature]*  
04/09/23  
AECOL

*[Signature]*  
4/9/23

Joint Chief Environmental Engineer (M)  
Tamil Nadu Pollution Control Board  
Cuddalore.

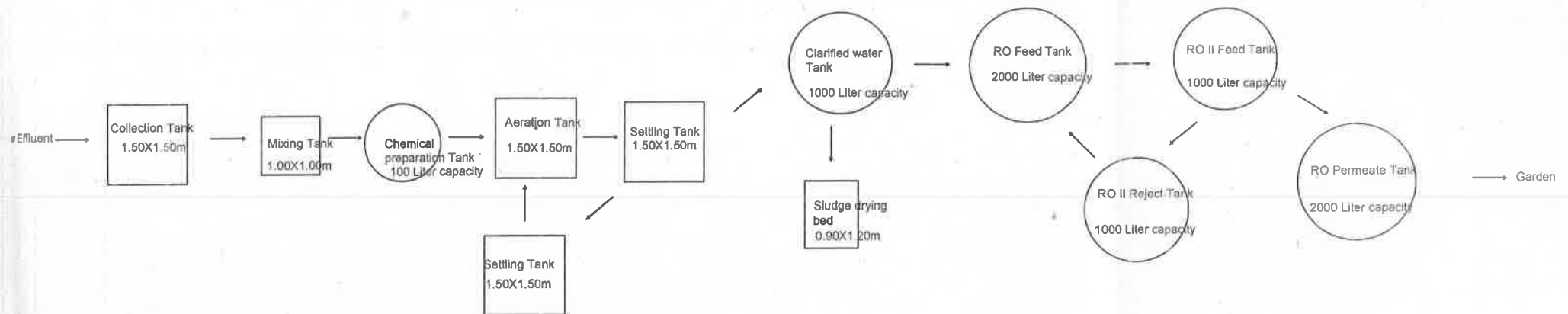
*N. K. S.*  
21/09/23  
AE/Pb

*[Signature]*  
11/9/23  
Executive Engineer  
TNPBC / Salem-2.

*[Signature]*  
21/09/23  
SE/NC

## EFFLUENT TREATMENT PLANT (ETP)

### Process Flow chart



*J. Samin*  
AB 04/09/23

*101.8*  
04/09/23  
A 527

*Sanj*  
4/9/23  
Joint Chief Environmental Engineer (M)  
Tamil Nadu Pollution Control Board  
Chennai

*NTW*  
21/09/23  
AE/Plg  
Executive Engineer  
TNPB / Salem-2.

*Ch*  
21/9/23  
SE/NO

PUBLIC WORKS DEPT.  
TAMIL NADU



NOTES

ALL DIMENSIONS ARE IN MM  
BUILDING HAS BEEN PREPARED BY  
TAMIL NADU POLLUTION CONTROL BOARD  
FOR THE TAMIL NADU POLLUTION CONTROL BOARD  
POLLUTION CONTROL BOARD CHENNAI  
THIS IS A DETAIL DRAWING  
AREA OF SITE  
GROUND FLOOR 247.50 M  
FIRST FLOOR 247.50 M  
SECOND FLOOR 247.50 M  
TOTAL 742.50 M

BY VISION CITY DATE

CHIEF ARCHITECT

JOINT CHIEF ARCHITECT SENIOR ARCHITECT

ARCHITECT ASSISTANT ARCHITECT

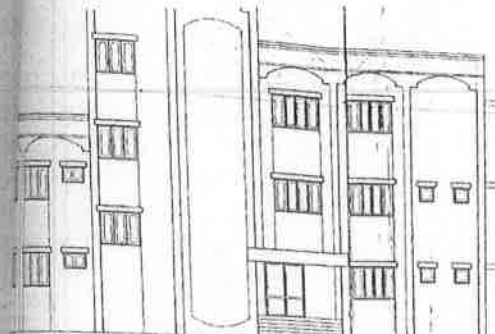
OFFICE OF THE CHIEF ARCHITECT, CHENNAI

SCALE 1/8" = 1'-0" DATE 21/09/12

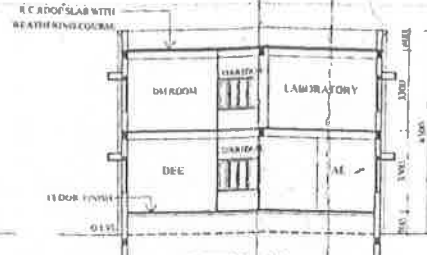
JOB NO. A-1659 DRG. NO. 3

PROPOSED OFFICE BUILDING FOR TAMIL NADU POLLUTION CONTROL BOARD AT CUDDALORE.

NT/1659  
21/09/12  
AE/plg



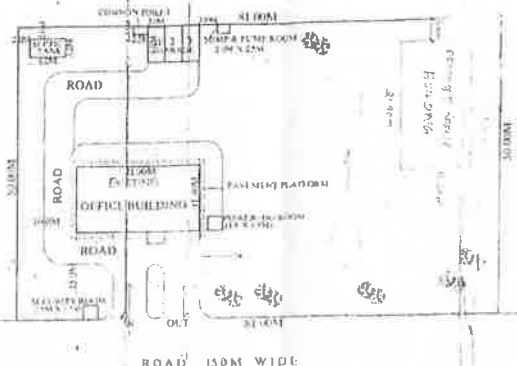
FRONT ELEVATION



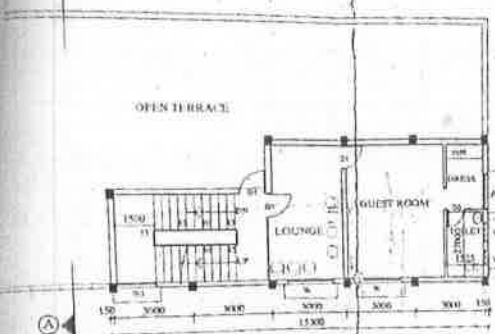
SECTION - AA

SCHEDULE OF JOINERY

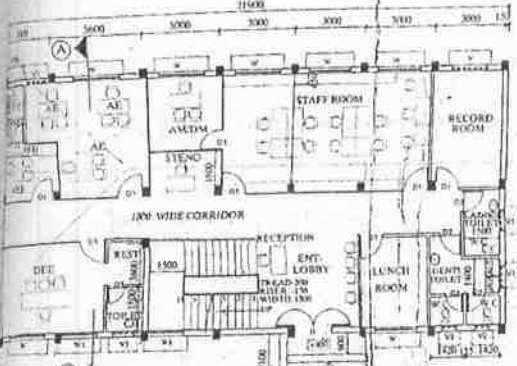
S.NO	TYP	SIZE	YAD	HT	SILL	TOP	DESCRIPTION	REMARKS
1	D	1500	2100			2100	ALUMINIUM FRAMED DOOR WITH 1/3 PANEL AT BOTTOM & 2/3 GLAZED AT TOP	DOUBLE LEAVES
2	D1	1000	2100			2100	STEEL FRAMED DOOR WITH PRE LAMINATED PARTICLE BOARD	SINGLE LEAF
3	D2	900	2400				P.V.C. DOOR	SINGLE LEAF
4	D3	750	2100			2100	P.V.C. DOOR	SINGLE LEAF
5	W	1800	1300	800		2100	STEEL FRAMED WINDOW WITH GLAZED SHUTTERS WITH 1/3 PANEL	4 SHUTTERS
6	W1	1500	1300	800		2100	STEEL FRAMED WINDOW WITH GLAZED SHUTTERS WITH 1/3 PANEL	3 SHUTTERS
7	V	1500	600	1500		2100	STEEL FRAMED GLAZED VENTILATOR	SHOE HUNG
8	V	900	600	1500		2100	STEEL FRAMED GLAZED VENTILATOR	SIDE HUNG
9	V1	600	600	1500		2100	STEEL FRAMED GLAZED VENTILATOR	SIDE HUNG



LAY-OUT PLAN



SECOND FLOOR PLAN



GROUND FLOOR PLAN



FIRST FLOOR PLAN

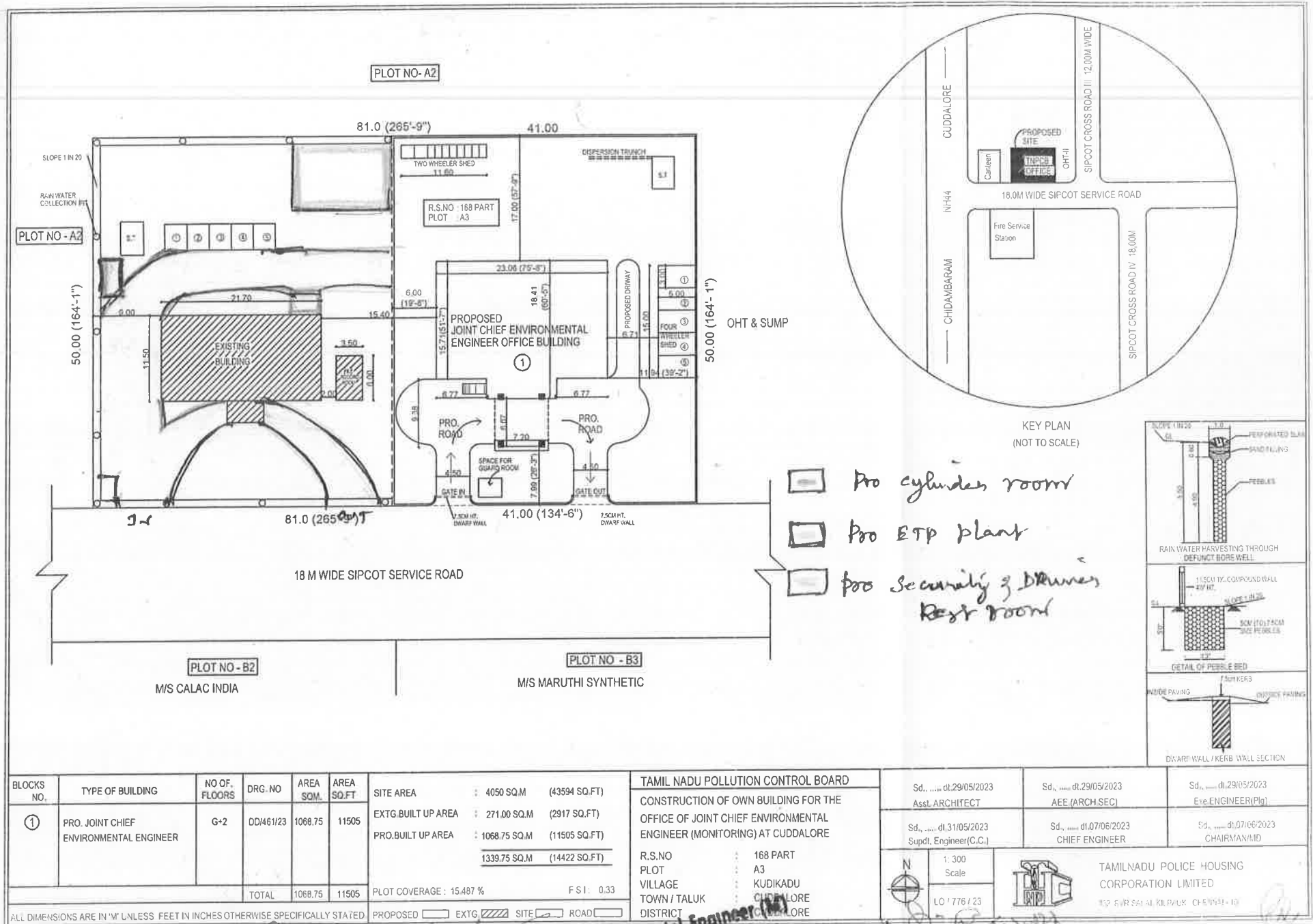
J. Suman  
AE 04/09/12

106P  
04/09/12  
\*15000

Joint Chief Environmental Engineer (M)  
Tamil Nadu Pollution Control Board

Executive Engineer  
TNPSC / Salem-2.

SE/NC



*G. Sarma*  
04/09/23

*10/09/23*  
04/09/23

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Tamil Nadu Pollution Control Board

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Executive Engineer  
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*21/09/23*  
SE/NC