

Er.A.Ravichander, B.E.,

Chief Engineer



**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

E-mail id: [tnphcl@tn.gov.in](mailto:tnphcl@tn.gov.in) Phone: 044-28364761-64, 28364749



**Lr. No. CE/Plg/TN-CO-OPTEX/2023**

**Dated: 31.01.2024**

To

The Managing Director,  
The Tamil Nadu Handloom Weavers' Co-operative Society Ltd,  
Co-optex Head Office, Balasundaram Building,  
No. 350, Pantheon Road, Egmore,  
Chennai – 600 008.

Sir,

**Sub:** TNPSC Ltd – HO – Plg – Construction/Modernization/Special Repair & Renewal works of Co-optex Premises within Tamil Nadu Engaging as "Executing Agency" Renovation and Modernization of Perambalur Co optex show room in Perambalur District - Estimate proposal – Furnished – Approval requested – Regarding.

**Ref:** The Managing Director/TNHWCS, Lr.Rc.No.1/Q/3364-Executive Agency/2023-24/23, Dated: 06.09.2023.

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The Managing Director/TNHWCS, has requested to furnish the estimate proposal for Construction/Modernization/Special Repair & Renewal works of Co-optex Premises within Tamil Nadu Engaging as "Executing Agency" Renovation and Modernization of Perambalur Co optex show room in Perambalur District.

2. Accordingly, the estimate is prepared based on the PWD SR 2023-24 rates. The estimate value works out to ₹ **70,27,800/-** 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 will execute the work with the supervision charges @ 7.5%.

4. Hence, it is requested that the above estimate proposal may approved and communicated to this office for taking further necessary action in this regard.

**Encl:** As above.

  
Chief Engineer

**TAMILNADU POLICE HOUSING CORPORATION LIMITED**

**Construction/Modernization/Special Repair & Renewal works of Co-optex Premises within Tamil Nadu Engaging as  
“Executing Agency” Renovation and Modernization of Perambalur Co optex show room in Perambalur District**

**ABSTRACT ESTIMATE**

<b>S. No</b>	<b>Qty</b>	<b>Description of Works</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
1	116.50	Removing the damaged materials like, wooden false ceiling.	66.11	Sq.m	7701.82
2	63.80	Removing the existing damaged glass partitions and doors including removed the debris from site.	109.94	Sq.m	7014.17
3	13.90	Removing the existing damaged Mirror paneling including removed the debris from site.	100.00	Sq.m	1390.00
4	1.00	Removed the damaged electrical wiring and fitting and handed over to showroom manager .	5000.00	Job	5000.00
5	116.20	Dismantling, clearing away and carefully stacking materials useful for re-use for Floor finish and dadoing walls in cement mortar with Mosaic Tiles / Glazed Tiles / Cuddapah Slabs	55.70	Sqm	6472.34
6	111.00	Removal of damaged wall panelling and partition including clearing scrap pieces from the site.	100.00	Sq.m	11100.00
7	3.00	Removal of existing AC Units and Copper pipe lines including carting away from the premises.	750.00	Nos	2250.00
8	94.80	Removing the existing damaged racks and removed the debris from site.	100.00	Sq.m	9480.00
9	25.80	Removing the existing damaged silk and cotton counter and removed the debris from site.	250.00	Sq.m	6450.00
10	1.00	Removal of cash counter including clearing from the site.	1000.00	Nos	1000.00
11	4.00	Removal of existing Centre units	500.00	Nos	2000.00
12	96.70	Removal of existing Advertisement Flex banners with MS Tubes frames with Necessary Scaffolding arrangements and handed over to showroom manager .	40.00	Sq.m	3868.00
13	1.50	Dismantling clearing away and carefully stacking materials useful for reuse for Brick wall in Cement mortar including the cost of required tools and plants scaffolding if necessary and clearing the debris away from the site etc all complete and as directed by the departmental officers.	284.60	Cum	426.90
14	4.00	Servicing the Rolling shutter by replacing the damaged locking arrangements and servicing the rolling spring and rectifying the damaged portion of the shutter to the possible extent and refix the same including providing new locking arrangements.	6500.00	Nos	26000.00
15	296.80	Injecting antitermit treatment with suitable chemical for showroom floor as instructed by departmental officer and standard specification.	60.00	Sq.m	17808.00

S. No	Qty	Description of Works	Rate	Unit	Amount
16	1.00	Flooring with a bed of cement concrete 1:5:10 (one of cement, five of sand and ten of hard broken stone jelly) using 40mm size hard broken stone jelly and top left rough to receive the floor finish with required slopes including ramming, curing etc., all complete complying with relevant standard specifications.	4582.97	Cum.	4582.97
17		Standardised concrete Mix M20 Grade Concrete for all reinforced cement concrete works, namely plinth beams, tie beams, column and column footing, slabs etc. using 20mm gauge hard broken stone jelly excluding the cost and fabrication of reinforcement grills, shuttering and centering but including vibrating, laying, curing with relevant standard specifications			
	1.10	c. In First Floor	8013.16	Cum	8814.48
18	0.11	Supplying, fabricating and placing in position of mild steel grills/ribbed tor steels for reinforcement for all floors including cost of binding wire, bending, tying etc., all complete and as directed by the departmental officers	88873.50	MT	9776.09
19		Supplying and fixing of Precast cupboard slab 40 mm for cupboard/ward robes shelves, cover slab for chambers, baffle walls side slabs of boxing around windows and other similar works in standardized cement concrete M30 using hard broken stone jelly of size 10mm and less for the following thickness excluding the cost and fabrication of reinforcement grills but including precasting, moulding, curing, finishing and fixing in position complying with relevant standard specifications etc., complete in the following floors (measurement will be taken including bearing in wall			
0	33.00	a. In Foundation & basement	1614.55	Sqm.	53280.15
20	100.60	Paving the floor with best quality Double Charged Vitrified Tiles of size 600 x 600 x 8mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three M-sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be Johnson / Kajaria / Somany / Nitco / RAK which has to be got approved by Executive Engineer before use	1807.46	Sqm	181830.48
21	2.00	Supplying and fixing of ceramic tiles for flooring and other similar works (best approved quality, colour and shade shall be got approved from the executive engineer before using) over cement mortar 1:3 (one of cement and three of sand) 20mm thick including fixing in position, cutting the tiles to the required size wherever necessary, pointing the joints with grout (tile joint filler), curing, finishing etc., all complete and as	1203.32	Sqm	2406.64

S. No	Qty	Description of Works	Rate	Unit	Amount
22	10.20	Supplying and fixing of colour glazed tiles of size 100x200x6mm (best approved quality and the same shall be got approved from the executive engineer before using) over cement plastering in cm 1:2 (one of cement and two of sand) 10mm thick including fixing in position, cutting the tiles to the required size wherever necessary, pointing the joints with grout (tile joint filler), curing, finishing etc., all complete and as directed by the departmental officers. (the brand quality of tiles should be got approved from the executive engineer	1372.88	Sqm	14003.38
23		Brick partition wall in cement mortar 1:4 (one of cement and four of sand) 110mm thick for super structure in the following floors using kiln burnt country bricks of size of 8 3/4" x 4 1/4" x 2 3/4" (22x11x7cm) including labour for fixing the doors, windows and ventilator frames in position, fixing of hold fasts, scaffoldings, curing etc., complete in all respects complying with relevant standard specifications and drawings.			
	40.10	(c) In First Floor	834.72	Sqm.	33472.27
24	109.90	Plastering with CM 1:5 (one of cement and five of sand) 12mm thick finished with neat cement including providing band cornice, ceiling cornice, curing, scaffolding etc., complete in all respects and complying with relevant standard specifications.	247.21	Sqm.	27168.38
25	166.30	FALSE CEILING WITH GYPSUM BOARD Providing and fixing suspended false ceiling using SAINT - GOBAIN GYPROC or Equivalent make which includes providing and fixing GI perimeter channel of size 0.50mm thick having one flange of 20mm and another flange of 30mm and a web of 27mm along with perimeter of ceiling, screw fixed to brickwall / partition with the help of nylon sleeved and screws at 610mm centres. Then suspending GI intermediate channels of size 45mm, 0.9mm thick with two flange of 15mm each from the soffit at 1220mm centres with ceiling angle of width 25mm x 10mm X 0.55mm thick fixed to soffit with GI cleat and steel expansion fasteners. ceiling section 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clips and in direction perpendicular to the intermediate channel at 610mm centres. 12.5mm Gypboard is then screw fixed to ceiling section with 25mm dry wall screws at 230mm centres. Screws fixing is done mechanically suitable attachment, finally the joints are to be finished with joining compound and paper tape and including Painting with two coat of	1592.87	Sq.m	264894.28

S. No	Qty	Description of Works	Rate	Unit	Amount
26	55.80	GYPBOARD DOUBLE SKIN PARTITION Providing and fixing of Gypsum Dry wall Double skin partition of 75 mm thick using SAINT - GOBAIN GYPROC or Equivalent make and the partition shall be of one layers of tapered edge 12.5mm thick Gyp board screw fixed with dry wall screw of 25mm at 300mm c/c to either side of 48mm studs. GI steel sections to be placed at 610 mm c/c in 50mm floor and ceiling channel 0.55mm thick having equal flanges of 32mm made of GI steel with joints staggered to avoid leakage through joints. Finally square and tapered edges of the boards are to be finished so as to have a flush look which includes filling and finishing with jointing compound, joint paper and 2 coats of Drywall top Coat suitable for Gypsum upto primer level.As per India Gypsum Specs.Note: Angle Bead to be used at external angles to get straight line	2601.27	Sq.m	145150.87
27	531.60	Painting the new walls with two coats of approved best ready mixed plastic emulsion paint in addition to one coat of approved primer coat over cement plastered wall surfaces and ceiling including cost of plastic emulsion paint, putty, brushers etc., all complete and as directed by the departmental officers (the emulsion paint and its shade should be got approved from the executive engineer before using)	231.43	Sqm	123028.19
28	16.80	Providing and fixing of 16" depth Silk goods Display racks of Size 7'0" x 4'0" x 1'4" depth made out of 18mm thick Commercial plywood of Make Century Sainik or Equivalent ISI make and finished with laminate. This rack shall be made in to 5 compartments by 4 glass sheves with the glass of 8mm thick fixed with D brackets on the sides. The space below 2'6" shall be given 3" height skirting the space above made in to closed storage with 12 mm thick sliding shutters made out of Commercial plywood Commercial plywood of Make Century Sainik or Equivalent ISI make and finished with laminate. the top Display shlves shall be fixed with 5mm sliding glass doors for goods protection. This sliding glass shutter are providing with necessary	10060.00	Sq.m	169008.00
29	54.50	Providing and fixing of 16" depth Cotton goods Display racks made out of 18mm thick Commercial plywood and finished with laminate. This shall carry shelves made out of 18mm thick plywood and finished with laminate and all edges shall be finished with PVC edge binding tapes matching to the laminate and as pr approval. The rack shall be divided in to 6 compartments by giving 5	9520.00	Sq.m	518840.00

S. No	Qty	Description of Works	Rate	Unit	Amount
30	9.60	Providing and fixing of Cotton display counter of 2'0" depth and 2'6" height as per design made out of 18mm thick commercial ply of Make Century Sainik or other equivalent ISI make. The length of the counter shall be as per drawing and the height of the counter shall be considered as 2'6". The space below counter shall be providing with open storage with one divider shelf horizontally made out of 18mm commercial ply and necessary vertical support made out of 18mm commercial ply provided at the interval not more than 3'0" and all exposed surface internally and externally shall be finished with laminate and exposed edges shall be finished with edge binding tapes.To complete in all aspects as per direction of the engineer in charge.	11810.00	Sq.m	113376.00
31	4.70	Providing and fixing of SILK display counter of 4'0" depth and 2'6" height as per design made out of 18mm thick commercial ply of Make Century Sainik or other equivalent ISI make. The length of the counter shall be as per drawing and the height of the counter shall be considered as 2'6" and top shall be 4'0" depth. The space below counter shall be providing with open storage with one divider shelf horizontally made out of 18mm commercial ply and necessary vertical support made out of 18mm commercial ply provided at the interval not more than 3'0" and all exposed surface internally and externally shall be finished with laminate and exposed edges shall be finished with edge binding tapes.To complete in all aspects as per direction of the	19930.00	Sq.m	93671.00
32	1.00	Providing and fixing of Billing counter of size 6'0" x 3'0" x 2'0" depth made out of 18mm commercial ply of Make Century Sainik or other equivalent ISI make. This shall be made in to counter table height of 2'6" and the front apron from customer side shall be made in to 3'6" as per design for 3'0" length.This shall be provided with the Two drawer and the One open storage shutter. This shall be finished with Laminate in all internal and external surfaces and the edges shall be finished with edge binding tapes.To complete in all aspects as per design and direction of the deparmental officer.	25000.00	Nos	25000.00
33	1.00	Providing and fixing of BACK Storage of size 6'0" x 2'6" x 1'6" depth back unit for the billing counter This shall be made out 18mm commercial ply of Make Century Sainik or other equivalent ISI make. This shall be fixed with the one divider shelf dividing in to two compartents vertically and horizontally made out of 18mm commercial ply and all internal and external areas are finished with laminate and the edges shall be finished	11340.00	Nos	11340.00
34	7.35	Providing and fixing Lasecut grills made out of 18mm MDF and designer grill pattern cut in laser cutting tools and to finish the grill with enamel spray paint or with polish to match the colour as per approved and to complete in all aspects as per direction of the	7500.00	Sq.m	55125.00

S. No	Qty	Description of Works	Rate	Unit	Amount
35	3.90	Supply and fixing of FRP Door Sutter with FRP Door Frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and Solid Core FRP Shutter Panel of 5mm thick and hollow core frames of 3m wall thickness for styles and rails etc., of sizes specified by Engineers	3957.00	Sq.m	15432.30
36	1.60	Providing and fixing of factory made unplasticized polyvinyl chloride (upvc) door frame of size 50X47MM with a wall thickness of 5MM, made out of extruded 5MM rigid upvc foam sheet, mitered at two corners and joined with 2 nos. Of 150MM long brackets of 15X15MM m.s square tube. The two vertical and horizontal door profiles are to be reinforced with 19X19MM m.s square tube of 19 gauges with primer coat. The door frame shall be fixed to the wall using 65MM/100MM long m.s screw through the frame by using pvc fasteners. A minimum of 4 nos. Screws to be provided for each vertical member and minimum 2 nos. For horizontal member etc., providing and fixing of 30MM thick factory made door shutter with unplasticized polyvinyl chloride (upvc) solid panel foam sheet, structured with m.s.tube of 19 gauge thickness and size 19MM x 19MM for styles and 15MM x 15MM for top rail and bottom rail. Paneling of 5MM thick upvc one side printed lamination single sheet to be fitted in the m.s.frame welded / sealed to the styles and rails covered with 5MM thick heat moulded upvc 'c' channel of 30MMX50MM and 5MM thick 75MM wide upvc sheet for top rail, lock rail and bottom rail on either side and 10MM (5MM x 2 nos.) Thick, 20MM wide cross upvc sheet as gap insert for top rail and bottom rail and joined together with pvc	3325.00	Sqm	5320.00
37	3.87	Providing and fixing of 12mm thick toughened glass door for the entrance of size 7'7" x 3'6" fixed with all required hardwares including floor spring, top pivot and Required handles and locks. To complete in all aspects as per direction of engineer in charge.	12300.00	Sq.m	47601.00
38	3.87	Providing and fixing of 12mm thick fixed glass on the side of the main door with required beading and to complete in all aspects as per direction of the departmental engineer in charge	6456.00	Sq.m	24984.72
39	154.42	Providing and fixing of Laminate Sheet on to the surface of Gypsumboard in Ceiling and the Partitions as per design by affixed with 1mm thick natural laminated sheet of approved colour using fevicol,nails etc.,complying with standard specifications and as directed the departmental officers.	1345.00	Sq.m	207694.90
40	42.14	Providing and fixing column panelling made out of 12mm commercial ply fixed with GI framework and to complete in all aspects with all required hardwares and to the satisfaction of the engineer incharge.	3766.00	Sq.m	158699.24



S. No	Qty	Description of Works	Rate	Unit	Amount
41	8.00	Providing and fixing of Standalone Mirror panel of Size 6'0" x 2'0" Made out of 18mm Commercial ply of Make Century Sainik or Equivalent ISI make panel and 4mm Mirror fixed on to that. All exposed surface of this unit shall be finished with laminate as per approved colour and this mirror panel shall be fixed on to the 2" x 2" rafter made out of commercial ply wood and fixed from floor to ceiling and the the mirror panel shall be fixed on to that and to complete in all aspetcs as per direction of the departmental engineer.	11000.00	Nos	88000.00
42	36.40	Providing and fixing of Premium Vinyl back wallpaper as per approved design and pattern to be affixed with glue as per pattern following in the paper. This including material and labour for fiixing in seamless pattern and wastage and other required finishing to comply with standard specifications and including surface preparation as directed by the departmental officers.	1185.00	Sq.m	43134.00
43	4.41	Providing and fixing Utility storage for the staff and janitor aand other made out of 18mm comm.ply and finished with laminate with all required hardwares with the 12mm door finished with laminate and all exposed edges shall be finished with edge binding tape.	11810.00	Sq.m	52082.10
44	1.00	Supplying and fixing EWC (white) superior variety 500mm including cost and fixing of double flapped coloured plastic sheet cover pvc flushing cistern in appropriate level as directed by the departmental officers at a maximum level of 5'6" and of approved brand of 10 litres capacity including fittings such as c.i. brackets. pvc connection gm wheel valve, hex nipple, etc., complete (EWC and plastic cover shall be got approved from the executive engineer before fixing)	7084.30	Each	7084.30
45	1.00	Supplying and fixing of Indian water closet white glazed (Oriya type) of size 580 mm x 440 mm of approved make with ISI mark (to be got approved from EE before use) with P or S trap confirming to IS 2556 part 12, including concrete packing filling portion with earth, flooring the area with 75mm thick brick jelly concrete in cc 1:8:16 (one of cement, eight of sand and sixteen of brick jelly) using 40mm size brick jelly and top left rough to receive the floor plastering but including antisiphonage connection, curing, etc. all complete and as directed by the departmental officers. (In Ground	3330.63	Each	3330.63
46	3.00	CP Angle Cock Tap	776.00	Nos	2328.00
47	1.00	Supplying and fixing of CP 2Way Bib Cock with Health Fauct of of best quality including cost of 2Way Bib Cock with Health Fauct with required specials and labour for fixing etc., all complete and as directed by the departmental officers. (The quality and brand should be got approved from the executive engineer before use)	2060.00	Each	2060.00

S. No	Qty	Description of Works	Rate	Unit	Amount
48	1.00	Supplying and fixing of PVC Nahani trap of 75mmx50mm 4way / 2 way (superior variety) having minimum of water seal of 50mm confirm to relevant i.s. specifications with its latest amendments including resting on the bed of brick jelly concrete 1:5:10 (one of cement, five of sand and ten of 40mm guage brick jelly) etc., complete and as directed by the departmental officers. (the pvc nahani trap should be got apporved from the executive engineer before use)	160.00	Each	160.00
49		Supplying and fixing the following dia Non Pressure pipe of SN8 SDR 34 with ISI mark confirming to IS 15328/2003 for soil line with including jointing with seal ring confirming to IS 5382 with leaving a gap about 10mm to allow thermal expansion, fixing the pipes into walls with necessary wooden plug, screws, holding wherever necessary and making good of the dismantled portion with necessary connections to sanitary fittings etc., complete in all respects and as directed by the			
	30.00	b. 160 mm UPVC Non Pressure pipe	805.14	Rmt	24154.20
50		Supplying and fixing the following dia PVC (SWR) pipe with ISI mark confirming to IS 13952:1992- type 'B' for soil line with relevant specials confirming to IS 14735 including jointing with seal ring confirming to IS 5382 with leaving a gap about 10mm to allow thermal expansion, fixing the pipes into walls with necessary wooden plug, screws, holding wherever necessary and making good of the dismantled portion with necessary connections to sanitary fittings etc., complete in all respects and as directed by the departmental officers.			
	25.00	a. 110 mm dia.	717.55	Rmt	17938.75
	30.00	b. 75 mm dia.	600.25	Rmt	18007.50
51	0.00	Supplying, laying and fixing of following Dia PVC pipes of best approved quality in walls /Below GL including cost of pipes and labour charges for laying, jointing, testing and redoing the dismantled portions with neat finish etc., all complete and as directed by the	0.00	0.00	0.00
	40.00	e) 40 mm PVC Pipe PVC Pipe Below Ground Level	303.19	Rmt	12127.60
	60.00	c) 25 mm PVC Pipe PVC Pipe Below Ground Level	245.04	Rmt	14702.40
52	1.00	Supply and delivery of clear water vertical wet type three phase 2.0HP submersible pumpset suitable for 150mm dia borewell conforming to IS 8034/2002 with latest amendments and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/difuser with ISI mark. The pump shall be directly coupled to a continuos rated two pole suitable wet type vertical squirrel cage induction motor asper IS9283 suitable for operation in AC 3 phase 415 V+/- 10 %. 50	15450.00	Each	15450.00

S: No	Qty	Description of Works	Rate	Unit	Amount
53	1.00	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. The pump shall be with stainless steel shaft and dynamically balanced bronze mixed type impeller, CI FG 200 grade casing and brass screws and rotor shall be of copper rod as per IS 613/1984 with ISI mark. The pump suitable for installation in sump with 1.1KV grade 3 core suitable copper flat submersible cable to a length of 15m with necessary cable joints. The nonreturn valve located at the top of the pump in the discharge outlet connection is to be designed with minimum friction. The pump should be directly coupled to 2880 RPM, three phase, 50 Hz ( $\pm 5$ ), 415V+6% & 415V-15% squirrel cage induction motor suitable for DOL upto 5 HP , Fully Automatic Air break Star Delta up to 20 HP and Auto	33017.00	Each	33017.00
54	1.00	Labour charges for the erection of three phase Upto 3.0HP submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days.	11056.10	Each	11056.10
55	320.00	Supply and laying of 3 core 4 sqmm PVC insulated flat cable for submersible pumpset including cost of all materials and labour charges all complete complying with relevant standard specifications and as directed by the departmental officers.	194.00	Rmt	62080.00
56	320.00	Supplying of 14mm dia of Nylon rope etc., all complete.	61.80	Rmt	19776.00
57	0.00	Drilling of 150mm dia vertical bores in hard rock area to any required depth as directed by the departmental officers including labour charges for inserting of casing pipes and assembling in the drilled hole, including joint if necessary grouting the casing pipe etc., and including transportation charges for the rig and supporting vehicles from one place to another place etc., complete and as directed by the departmental officers.	0.00	0.00	0.00
	150.00	(i) Upto 150 m depth ending below Ground level	330.00	Rmt	49500.00
	30.00	(ii) From 150 m upto 180 m depth ending below Ground level	360.00	Rmt	10800.00
	30.00	(iii) From 181 m upto 210 m Depth ending from ground level	420.00	Rmt	12600.00
	30.00	(iv) From 211 m upto 240 m Depth ending from ground level	500.00	Rmt	15000.00
	30.00	(v) From 241 m upto 270 m Depth ending from ground level	600.00	Rmt	18000.00

S. No	Qty	Description of Works	Rate	Unit	Amount
	30.00	(vi) From 271 m upto 300m Depth ending from ground level	720.00	Rmt	21600.00
	30.00	(vii) From 301 m upto 330m Depth ending from ground level	860.00	Rmt	25800.00
58	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 conducting yield test by 'V' notch method.	1937.10	Hour	15496.80
59	20.10	Supplying and fixing of PVC casing pipe 200 mm Dia CS IIIrd quarter	1113.20	Rmt	22375.32
60	40.00	Labour charges for inserting PVC casing pipes assembly ( with slots or with out slots ) in the drilled hole including jointing the pipes with PVC couples with cement plaste etc., complete supply and packing the annular space with pebbles of size and quality as approved by the Executive Engineers of Department. TWAD SR 2020-2021 P278	380.60	Rmt	15224.00
61	1.00	Supplying and fixing of Bore end cap using PVC 200 mm Dia etc., all complete	193.50	Each	193.50
62		Supplying, laying and fixing of following Dia UPVC Column pipes of best approved quality in walls /Below GL including cost of pipes and labour charges for laying, jointing, testing and redoing the dismantled portions with neat finish etc., all complete and as directed by the Departmental officers.			
	300.00	c) 40 mm UPVC - Column pipe	185.30	Rmt	55590.00
63	2.00	Supplying and delivery of 40 mm dia Cast Iron Adopter including cost of all materials and labour charges all complete complying with relevant standard specifications and as directed by the departmental officers	900.00	Each	1800.00
64	1.00	Supplying and fixing of clampset	995.00	0.00	995.00
65		Supplying, laying and fixing of following Dia PVC specials of best approved quality including cost of specials and labour charges for fixing etc., all complete and as directed by the departmental officers.			
	5.00	40mm dia UPVC Coupler	51.60	Each	258.00
	4.00	40mm dia GI Elbow	98.60	Each	394.40
	2.00	40mm dia UPVC Tee	75.60	Each	151.20
	2.00	40mm x 32mm	13.30	Each	26.60
	2.00	a) 40 mm dia G.I Bend PWD SR 2023-24 M-0453 P-51	87.00	Nos	174.00

S. No	Qty	Description of Works	Rate	Unit	Amount
	2.00	b) 40mm dia G.I Union PWD SR 2023-24 M-0441 P-51	197.50	Nos	395.00
	1.00	c) 40mm dia G.I Non return valve PWD SR 2023-24 M-0453 P-51	2498.00	Nos	2498.00
	2.00	d) 32mm dia GM Gate Valve PWD SR 2023-24 M-0500 P-53	760.00	Nos	1520.00
	1.00	e) 40mm dia GI Hex nipple PWD SR 2023-24 M-0492 P-53	69.80	Nos	69.80
	2.00	f) 25mm dia Gate valve PWD SR 2023-24 M-0501 P-53	592.00	Nos	1184.00
	1.00	g) 40mm dia Thread Adopter PWD SR 2023-24 M-0453 P-51	136.00	Nos	136.00
	2.00	h) 40 mm dia Female thred Adopter PWD SR 2023-24 M-0453 P-51	182.00	Nos	364.00
66	116.50	Special ceiling plastering in cement mortar 1:3 (one of cement and three of sand) 10mm thick for bottom of roof, stair waist, landing and sunshades in all floors finished with neat cement including hacking the areas, providing band cornice, scaffolding curing etc.,	284.86	Sqm.	33186.19
67		Brick work in cement mortar 1:6 (one of cement and six of sand) using kiln burnt country bricks of size 8 3/4"x4 1/4"x2 3/4" (22x11x7cm) for super structure in the following floors including labour for fixing the doors windows and ventilator frames in position, fixing of hold fasts, scaffoldings, curing etc., complete in all respects complying with relevant standard specifications and drawings.			
	1.27	(b) In First Floor	6811.05	Cum.	8650.03
68	166.25	Supplying and Applying Of Wall Putty One Coat With Approved Make Wall Putty For Smooth Finishing Over The New Cement Plastered Walls Including Cost Of Putty, Brushes, Watering Curing Labour Charges For Apply Putty, Blade Etc., Complete And As Directed By The Departmental Officers. (The Quality Of The Material Should Be Got Approved From The Executive Engineer Before Use)	94.00	Sqm	15627.50
69	106.10	Dismantling clearing away and carefully stacking materials useful for reuse for pressed tiles and weathering course the cost of required tools and plants if necessary and clearing the debris away from the site etc all complete and as directed by the departmental	41.80	Sqm	4434.98
70	116.50	Chipping of concrete and roughening the existing ceiling surfaces including the cost required tools and plants and scaffolding if necessary and clearing the debris away from the site etc., all complete and as directed by the competent authority.	36.70	Sqm	4275.55
71	10.60	weathering course with concrete broken brick jelly 20mm gauge in pure burnt lime stone slaked and screened (no sand) over rcc roof slab with proportion of brick jelly to lime (fat lime) being 32:12½ by volume well beaten with wooden beaters for giving the required slope and thickness complying with relevant standard specification and as directed by the departmental	4047.49	Cum.	42903.39

S. No	Qty	Description of Works	Rate	Unit	Amount
72	106.10	Finishing the top of roof with one course of hydraulic pressed tiles of approved superior quality of size 23cmx23cmx20mm thick laid over weathering course in cm 1:3 (one of cement and three of sand) 12mm thick mixed with water proofing compound at 2% by weight of cement used and pointed neatly with the same cement mortar mixed with water proofing compound including curing etc., as per standard specifications. (the quality of the tiles shall be got approved from the executive engineer before use.)	1187.08	Sqm.	125949.19
73	1.00	Supplying and erection of rotational moulded polyethylene water storage tanks (HDPE cylindrical vertical type) for outdoor use having capacity 1000 of litres (excluding free board) of approved brand (superior variety) with ISI mark (marked in the tank itself) with top lid with provisions of locking including necessary specials and fittings for storing potable water and manufactured with material which do not import any taste /odour/ any toxic effect and not to contaminate etc., with carbon block content and dispersion in accordance with relevant I.S. specification and as directed by the departmental officers etc., complete. (the tank should be got approved from the	10050.00	Each	10050.00
74	1.00	Supply, installation, testing and commissioning of three phase, 8 way VTPN MCB DB double door type with IP 43 protection with 125A Four pole MCB as incoming and 12 nos. of 32A Triple pole MCB as outgoing in flush with wall and making good of the concealed portion with earth connection. The MCBDB and MCB should be with the ISI mark (like Legrand, Havels, L&T make) including 18 nos of copper 35.0	27715.00	Set	27715.00
75	8.00	Supply and fixing of 20 Amps DP plug and socket in sheet enclosure with 32 A DP MCB in Flush with wall with earth connection ( For AC Plug ) Legrand ( MDS) / Hager( L & T) Equivalent/ Superior variety	1858.00	Each	14864.00
76	50.00	3.5 core 25 sq.mm. PVC Armoured UG Cable	221.60	Rmt	11080.00
77	720.00	2 core 25 sq.mm. PVC Armoured UG Cable	146.90	Rmt	105768.00
78	80.00	Run off mains with MS Pipe with Open Wiring 2 wires of 1.5 Sqmm copper PVC insulated unsheathed single core 1.1KV cable wire continuous earth by means of 1.5 Sqmm copper PVC insulated unsheathed single core 1.1 KV grade cable in fully concealed 25 mm MS pipe B class with fittings like bend, reducer, tee, etc., fixed to the wall with u clamps and angle supports. pipe painted to post office red colour, welded type including cost of all materials, specials, etc., all complete.	558.00	Rmt	44640.00

S: No	Qty	Description of Works	Rate	Unit	Amount
79	90.00	Run off main with 2 wires of 1.5 sq.mm. PVC insulated single core multi strand fire retardant flexible copper cable with isi mark conforming to is: 694/1990, 1.1 kv grade cable with continuous earth by means of 1.5 sq.mm pvc insulated single core multi strand fire retardant flexible copper cable with isi mark conforming to is:694/1990, 1.1. k.v. grade cable in fully concealed 19mm/20mm dia rigid pvc conduit pipe heavy duty with isi mark cost of all materials, specials etc., all complete.	214.90	Rmt	19341.00
80	90.00	Run off mains with 4 wires of 6 Sqmm copper PVC insulated unsheathed single core 1.1KV cable wire continuous earth by means of 2.5 Sqmm copper PVC insulated unsheathed single core 1.1 KV grade cable in fully concealed 19 mm / 20 mm dia rigid PVC conduit pipe heavy duty with ISI mark including cost of all materials, specials, etc., all complete.	501.08	Rmt	45097.20
81	25.00	Wiring with 1.5 Sqm.m pvc insulated single core multi strand fire retardant flexible copper cable with ISI mark conforming to IS:694/1990, 1.1.k.v. grade cable with continuous earth by means of 1.5 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with isi mark conforming to is:694/1990, 1.1.k.v. grade cable in fully concealed pvc rigid conduit pipe heavy duty with ISI mark with suitable size ms box of 16g thick concealed and covered with 3mm thick laminated hylem sheet for FAN POINT controlled by 5 amps flush type switch including circuit mains, cost of all materials, specials, etc., all complete	1767.10	Each	44177.50
82	10.00	Supply and fixing of 16 amps power plug (Modular) socket with switch	150.00	Each	1500.00
83	3.00	Wiring with 1.5 Sqm.m pvc insulated single core multi strand fire retardant flexible copper cable with isi mark conforming to is: 694/1990, 1.1.k.v. grade cable with continuous earth by means of 1.5 Sqm.m pvc insulated single core multi strand fire retardant flexible copper cable with isi mark conforming to is:694/1990,1.1.k.v. grade cable in fully concealed pvc rigid conduit pipe heavy duty with isi mark with suitable size ms box of 16g thick concealed and covered with 3mm thick laminated hylem sheet for 5 amps 5 pin plug socket point at SWITCH BOARD ITSELF including circuit mains, cost of all materials, specials, etc., all complete	869.50	Each	2608.50
84	50.00	Supplying and fixing of 18W LED 3000K Square Type Recessed Fitting with LED Recessed Fitting with LED including cost of all materials and labour charges, etc all complete as per relevant standard specification and as directed by the departmental officers. (The quality and brand should be got approved from the executive engineer before use)	3166.00	Each	158300.00
85	1.00	Supplying and fixing of spot light (MASTER LED 3W-12 W) including labour charges for fixing of light etc all complete	398.00	Each	398.00
86	20.00	Supply and run of Strip light	275.00	Rm	5500.00

S. No	Qty	Description of Works	Rate	Unit	Amount
87	6.00	BEE Energy efficient 1200mm Sweep Ceiling Fan 5 Star Rated, inverter driven controlled by microprocessor with 300mm down rod with regulator / remote control (35 W)	3140.00	Nos	18840.00
88	6.00	Charges for assembling and fixing of ceiling fan of different sweep with necessary connections and fixing of fan regulator on the existing board etc., all complete (excluding cost of fan).	601.20	Each	3607.20
89	400.00	25 mm dia PVC pipe Heavy duty with ISI mark for TV/ Telephone line	88.71	Rmt	35484.00
87	50.00	Co-axial TV cable laid through existing PVC conduits as required. RG-06 Armoured.	89.60	Rmt	4480.00
88	300.00	Supply and installation of CAT 6 LAN Cable for CCTV	29.65	RM	8895.00
89	300.00	Labour chrges for laying of CAT 6 UTP Unarmoured cable	60.00	RM	18000.00
90	1.00	Supply, Installation, Testing and Commissioning Voice io MS enclosure including all required accessories as per site conditions.	495.00	Nos	495.00
91	1.00	Supply, Installation, Testing and Commissioning Data io MS enclosure including all required accessories as per site conditions.	1045.00	Nos	1045.00
92	1.00	Supply, Installation, Testing and Commissioning TV io MS enclosure including all required accessories as per site conditions.	506.00	Nos	506.00
93	12.00	Supply, Installation, Testing and commissioning of the 45x45 Casing/capng.	220.00	Nos	2640.00
94	1.00	Supply, installation, testing and commissioning of Micro Processor based conventional 4 Zone Fire Alarm Control Panel having the rating of 24 volt DC power supply, consisting 230 / 24 volt SMPS unit, 2 Nos. of 12 volt 7 AH standby batteries, suitably mounted on wall using fixing accessories like screws, plug, clamps and etc., as per standard methods and as directed by the Departmental Officers.	52430.00	Nos	52430.00
95	1.00	Supply, installation, testing and commissioning of Conventional Smoke Detector suitably mounted on ceiling with MS junction box / false ceiling using fixing accessories like screws, plug, clamps, etc., as per standard methods and as directed by the Departmental Officers. (Make: Apollo / Equivalent)	2448.00	Nos	2448.00
96	1.00	Supply, installation, testing and commissioning of Manual Call Point (MCP) providing on wall using fixing accessories like screws, plug, clamps and etc., as per standard methods and as directed by the Departmental Officers. (Make: Ravel / Equivalent).	1864.00	Nos	1864.00
97	1.00	Supply, installation, testing and commissioning of Electronic Hooter / Sounder providing on wall using fixing accessories like screws, plug, clamps and etc., as per standard methods and as directed by the Departmental Officers (Make: Ravel / Equivalent)	1807.00	Nos	1807.00



S. No	Qty	Description of Works	Rate	Unit	Amount
98	240.00	Supply and laying of FRLS PVC insulated 2 core 1.5 sq.mm. Armoured Copper Cable on ceiling / wall using fixing accessories like screws, plug, clamps, etc., as per standard methods and as directed by the Departmental Officers.	116.50	RMT	27960.00
99	1.00	Supply, Installation of 8 Channel HIKVISION Turbo HD stand Alone real time live display with H.264 compression in all channels,1 HDMI output,1VGA interface with TCP IP connectivity for remote viewing.	9273.00	Nos	9273.00
100	1.00	Supply, Installation of WD 2TB Hard disk for DVR.	5948.00	Nos	5948.00
101	10.00	Supply, Installation of HIKVISION IR Dome colour camera 2MP full HD night vision	2860.00	Nos	28600.00
102	1.00	Supply, Installation of HIKVISION IR based outdoor IR bullet colour camera with 2MP 1080p full HD night vision	3080.00	Nos	3080.00
103	10.00	Supply, Installation of 12 V DC Power Supply for Individual Camera	550.00	Nos	5500.00
104	10.00	Supply of video balun for camera video over cat6 cable	275.00	Nos	2750.00
105	1.00	Installation of Existing 19" monitor for DVR	18000.00	Nos	18000.00
106	1.00	Installation of Existing VGA cable - 15m	2500.00	Nos	2500.00
107	1.00	Supply and fixing of 6U Rack.	3211.00	Nos	3211.00
108	10.00	Supplying, testing and commission of 5 Star 2.0 ton capacity Hi-wall counted single split type AC unit superior variety/make consisting of outdoor condensing unit complete with compressor and air cooler condenser with fan motor and one indoor unit with evaporator blower including cost of copper piping etc., including initial charging of refrigerant gas and suitable for single phase operation (With cardless remote control facilities). all complete and as directed by departmental officers (the quality and brand should be got approved from the executive engineer before use)	56370.00	Each	563700.00
109	10.00	Supply and installation of 5 KVA capacity Automatic Voltage Stabilizer with time delay relay (V-Gurad Equivalent)	4940.00	Each	49400.00
110	14.00	Supply and laying of 5/8" and 3/8" copper pipe (Extra beyond 3 metres supplied with AC unit)	940.00	Each	13160.00
111	10.00	Supply and fixing of MS stand for fixing outdoor unit	1088.00	Each	10880.00
112	135.00	Run off main with 2 wires of 4 Sqm.m PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark conforming to is: 694/1990, 1.1 kv grade cable with continuous earth by means of 2.5 Sqm.m pvc insulated single core multi strand fire retardant flexible copper cable with ISI mark conforming to IS: 694/1990, 1.1. k.v. grade cable in fully concealed 19mm/20mm dia rigid PVC conduit pipe heavy duty with isi mark cost of all materials, specials	272.90	Rmt	36841.50
113	20.00	Supply and fixing of water drain pipe line (1" PVC Pipe)	64.10	Rmt	1282.00

S. No	Qty	Description of Works	Rate	Unit	Amount
114	1.00	Co-optex Logo 8mm Imported Clear Acrylic Sheet Laser Cut with HP latex Print, Back Pasting with 3m Tape Size: 4X4 ft	14080.00	Nos	14080.00
115	1.00	Co-optex Letter 8mm Imported Milk White Acrylic Sheet Laser Cut with Plotting Vinyl, Back Pasting with 3m Tape Size: 4X5 ft	16000.00	Nos	16000.00
116	100.00	Front Elevation Louver with LED Stainless steel signage - 48x4ft Louver 4x1.75inches Aluminium Square 2mm thickness height 4feet, 2x2inches square pipe framework with two coat painting, if needed Pa channel 4inches square pipe and L angle 50x6mm aluminium square 4x1.75inches, Framework backside covered with Black colour ACP or GI Sheet. Aluminium Channel Louver will be painted using powder coating as per the approved colour. Co-optex English, Tamil letters and co-optex logo with UV Print Design, Composition, Imported 040 Acrylic 3mm Cup letter laser cut with side beeding 3mm sunboard, male & female 3inch depth, all sides covered SS Rim 1.2mm SS frame male & female, backside covered with ACP or 10mm foam board with rotter cut, Imported Quality Silicon will be used inside to arrest the light leakage. Connecting generations since 1935 non lit background imported milk white acrylic & letter with black imported acrylic laser cut. Samsung LED 2watts 1year warranty with appropriate fittings, wiring branded Finolex 2.0 core, Impex ISI water proof Power supply 1 year warranty. If needed Job scope includes fabrication and installation in all respects including grouting (Masonry work) in PCC (Plain Cement Concrete) at location. Old board removal and alteration work will be done onsite as per the requirement of new	3950.00	Sq.ft	395000.00
117	72.00	Lollipop Double side LED Profile Backlight Board Signage Size: 3ft width x 4ft height-6no Design, Fabrication, supply and Installation of backlight signboard 4x3ft LED Aluminium Fabric Profile box suitable for Outdoor use consisting the following technical specifications. Modular aluminium extrusions ( Alloy 6060 as per European Standards EN 755-2-2008 tensile strength 190 MPa typical BHN is 80 from Virgin aluminium homogenous billet) Silver anodised single sided 3mm thickness depth 80mm aluminium Channel profile box. L corner Clamp for Fabric frame 80mm single sided 4nos. Backside covering Aluminium composite panel (3mm, 0.3mm Aluminium sheet with PVDF coating) rotter cut. Samsung LED 2watts 1year warranty with appropriate fittings, wiring branded Finolex 2.0 core. ADS or Impex ISI water proof Power supply 1 year warranty. Star Backlight Flex 270 ounce 12 pass or Fabric Senfa 12 Pass UV Print with stitching.	1650.00	Sq.ft	118800.00

S. No	Qty	Description of Works	Rate	Unit	Amount
118	1.00	Lollipop Double side LED Profile Backlight Board Signage with Pole Size: 3ft width x 4ft height- 1no Design, Fabrication, supply and Installation of backlight signboard 4x3ft LED Aluminium Fabric Profile box suitable for Outdoor use consisting the following technical specifications. Modular aluminium extrusions ( Alloy 6060 as per European Standards EN 755-2-2008 tensile strength 190 MPa typical BHN is 80 from Virgin aluminium homogenous billet) Silver anodised single sided 3mm thickness depth 80mm aluminium Channel profile box. L corner Clamp for Fabric frame 80mm single sided 4nos. Backside covering Aluminium composite panel (3mm, 0.3mm Aluminium sheet with PVDF coating) rotter cut. Samsung LED 2watts 1year warranty with appropriate fittings, wiring branded Finolex 2.0 core. ADS or Impex ISI water proof Power supply 1 year warranty. Star Backlight Flex 270 ounce 12 pass or Fabric Senfa 12 Pass UV Print with stitching. 3inch dia Supporting pipe, with MS frame work for board support painting red oxide and colour as per approved. Job scope includes fabrication and installation in all respects including grouting (Masonry work) in PCC (Plain Cement Concrete) at location, on top of that flooring design stone placed. Including labour,	48000.00	Nos	48000.00
119	70.00	Carting away the surplus earth/debris to a lead of 16km. including Loading, unloading And dumping in the Corporation Land as directed during execution.	253.52	Cu.m	17746.40
		<b>Sub Total-I</b>			<b>5391414.90</b>
120		GST @ 18%			970454.68
		<b>Sub Total-II</b>			<b>6361869.58</b>
121		Provision for labour Welfare Fund @ 1%			53914.15
122		Provision for Petty Supervision charges@ 2.50 %			134785.37
123		Provision for Supervision charges 7.5%			404356.12
124		Provision for Supervision charges Amount @ G.S.T 18%			72784.10
		<b>Grand Total</b>			<b>7027709.32</b>
				<b>Say</b>	<b>7027800.00</b>

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

31/1/24.

