

**Name of work: Proposed Tamil Nadu Police Canteen at Old Police Station Building at Thiyagadurugam in Kallakuruchi District. ( Flooring ,Cupboard work ,Retrofitting & Plumbing work) Group - I**

**Abstract Estimate**

S.No.	Qty.	Description	Rate	Unit	Amount
1	0.53	Dismantling the damaged brick/stone masonry works under 3m high in cement mortar walls without affecting the adjacent structures including the cost of required tools and plants and scaffolding, if necessary and clearing the debris away from the site etc., all complete and as directed by the departmental officers PWDSR 2022-2023 P No.21 Item No.(14)	244.00	Cum	129.32
2	0.51	Dismantling the existing damaged Reinforced Cement Concrete without affecting the adjacent structures, including the hire charges of tools and plants, and scaffolding if necessary, and clearing the dismantled materials away from the site etc., all complete and as directed by the departmental officers PWDSR 2022-2023 P No.22 Item No.(38)	6380.00	Cum	3253.80
3	8.70	Dismantling floor finish and dadoing walls in cement mortar with mosaic tiles / glazed tiles / cuddapah slabs etc., and clearing the debris away from the site as directed by the departmental officers. all complete and as directed by the departmental officer PWDSR 2022-2023 P No.22 Item No.(29)	52.50	Sqm	456.75
4	12.03	Dismantling the damaged broken door/window including the removal of frames, hinges, fastenings and shutters from the existing structure and stacking the same carefully for reuse if any in the departmental stores at site of work and as directed by the departmental officers etc., all complete (including removing the furniture fittings such as hinges, hookes and eyes etc.,) PWDSR 2022-2023 P No.22 Item No.(29)	132.40	Sqm	1592.77
5	0.74	<b>Removing the damaged pressed tiles</b> laid over cement mortor and weathering coarse lime concrete 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 PWDSR 2022-2023 P No. 22 Item No.(38 C)	22.00	Sqm	16.28

S.No.	Qty.	Description	Rate	Unit	Amount
6	0.74	<b>Finishing top of roof with one course of Hydraulic Pressed Tiles</b> of approved superior quality of size 23cmx 23cmx20mm 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 tiles shall be got approved from the EE before use) Data	1150.77	Sqm	851.57
7	16.73	Pointing with cement mortar 1:3 ( one of cement and three of crushed stone sand for jointing the pressed tiles mixed with WPC 2% by weight of cement neatly to full depth of tiles including curing etc.,all complete directed by the departmental officers complying with standared specification.	300.02	Sqm	5019.33
8	1.00	Dismantling the damaged flooring in Plain Cement Concrete without affecting the adjacent structures, including the cost of required tools and plants and clearing the debris away from the site etc., all complete and as directed by the departmental officers.PWDSR 2022-2023 P No. 22 Item No.(37)	419.00	Nos	419.00
9	53.46	Plastering the top flooring in CM 1:4 (One of cement and four of sand) 20mm thick including surface rendered smooth including providing proper slopes, thread lining, curing and 150mm wide skirting alround with the same cement mortar etc., all complete and as directed by the departmental officers	489.83	Sqm	26186.31
10	33.45	Labour charges for chippling the spalling and old concrete of the columns beams and lintels adhering particles using wire brush packing the RCC surface and make the beam, columns for the application of repair mortar/ micro concrete complete complying with the standard specification including lead and lift etc O Data	356.16	Sqm	11913.55

S.No.	Qty.	Description	Rate	Unit	Amount
11	33.45	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 near cement including hacking the areas providing band cornice, scaffolding, curing etc.all complete and as directed by the departmental officers	275.60	Sqm	9218.82
12	101.91	Clean removal of the old cement plastering from the existing walls without damaging the existing structure and surroundings and clearing the debris away from the site including cost of required tools and plant and necessary scaffolding if necessary etc., complete and as directed by the departmental officers. PWDSR 2022-2023 P No. 25 Item No.(320)	7.30	Sqm	743.94
13	10.60	Supplying and fixing of 110mm dia PVC SWR pipe with ISI mark confirming to IS 13952:1992 Type 'A' for Rainwater Down fall pipe with relevant specials such as gratings, shoes, bends, offsets confirming to IS 14735 including jointing with seal ring confirming to IS 5382 with leaving a gap about 10mm to allow thermal expansion with necessary clamps, teak wood plugs etc., of approved quality and including fixing CI gratings at the junction of parapet and floor or roof slab etc., including finishing etc., complete complying with relevant standard specifications.	335.61	Rmt	3557.47
14	2.00	Supplying and fixing of half turn C.P Long body Tap of 15mm dia of Best quality including cost of half turn CP tap 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 Executive Engineer before use).all complete and as directed by the departmental officers	480.00	Nos	960.00
15	1.00	Supplying and fixing of half turn C.P short body Tap of 15mm dia of Best quality including cost of half turn CP tap 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 Executive Engineer before use).all complete and as directed by the departmental officers	432.00	Nos	432.00

S.No.	Qty.	Description	Rate	Unit	Amount
16		Supplying, laying, fixing and jointing the following PVC pipes as per ASTM D-1785 of schedule 40 of wall thickness not less than the specified in IS 4985 suitable for plumbing by threading of wall thickness including the cost of suitable PVC/GI specials/GM specials like elbow, Tee, reducers, plug, union, bends, coupler, nipple/GM gate valve check and wheel valve etc., wherever required above the ground level including the cost of teflon tap etc., fully concealed in walls to the proper gradient and alignment and redoing the chipper portion of masonry etc., all complete and as directed by the departmental officers.			0.00
	15.00	a) 32mm ASTM-D schedule 40 threaded PVC pipe	241.48	Rmt	3622.20
	17.20	a) 25 mm ASTM-D schedule 40 threaded PVC pipe	224.25	Rmt	3857.10
17	1.86	Plain Cement Concrete 1:5:10 (One of cement, five of sand and ten of hard broken stone jelly) for foundation using 40mm gauge hard broken stone jelly inclusive of shoring, strutting and bailing out water wherever necessary ramming, curing etc., complete in all respects complying with relevant standard specifications and as directed by the departmental officers.	4734.01	Cum	8805.26
18	1.72	Supplying and filling in foundation and basement with filling sand in layers of 150mm thickness well watered, rammed and consolidated complying with relevant standard specification including cost of supplying filling sand. all complete and as directed by the departmental officers	1741.27	Cum	2994.98
19		Brick work in Cement Mortar 1:6 (One of cement and six of sand) using Kiln burnt country bricks of size 8¾"x4¼"x2¾" (22x11x7) 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 respect complying with relevant standard specifications and drawings			0.00
	2.38	a) In Ground Floor	6485.02	Cum	15434.35

S.No.	Qty.	Description	Rate	Unit	Amount
20		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 8¾"x4¼"x2¾" (22x11x7cm) including labour for fixing the doors, windows and ventilator frames in position, fixing of hold fasts, scaffoldings, curing etc., complete in all respect complying with relevant standard specifications and drawings			0.00
	5.82	b. In Ground Floor	782.16	sqm	4552.17
21	12.60	Brick partition walls 70mm thick using kiln burnt country bricks of size 8¾"x4¼"x2¾" (22x11x7cm) in cement mortar 1:4 (One of cement and four of sand) for super structure in the following floors including scaffoldings, curing etc., complete in all respect complying with relevant standard specifications and drawings	532.17	Sqm	6705.34
22	204.62	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.	241.16	Sqm	49346.16
23	2.88	Plastering with CM 1:4 (One of cement and four of sand) 12mm thick finishd with neat cement including providing band cornice, ceiling cornice, curing scaffolding etc., complete in all respects and complying with relevant standard specifications.	247.25	Sqm	712.08
24	0.137	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 for all sizes.	87298.50	Mt	11959.89

S.No.	Qty.	Description	Rate	Unit	Amount
25	46.38	Supplying, Fabricating and fixing in position of ISI make Bare Galvalume sheet roof 0.47mm thick including cost of bitumen washer, 'U' or 'J' bolt etc., and cost of labour charges for fixing etc., all complete, complying with standard specification.	971.65	Sqm	45065.13
26	15.00	Repair works in existing plywood door & windows shutters etc., including cost of labour 1 No of aluminium door handle with CP screws 6" ,3 Nos of 5" Butt hinges, 2Nos of 6" x 1/2" Tower bold 1 No of 10" x 5/8" aluminium aldop 1 no of nylon bush 1 No of Door stoper with bress screws etc all complete & as directed by the departmental officers.	1156.38	Nos	17345.70
27		Supply & delivery of following dia GI, GM, CI, PVC and MS specials of best approved quality having ISI mark etc., all complete and as directed by the departmental officers.			0.00
	1.00	a) 32mm dia ball valve	178.00	Nos	178.00
		(TWAD SR for year of 2021-2022) p no:54 item no: 3 viii			0.00
	1.00	b) 25mm dia ball valve	150.00	Nos	150.00
		(TWAD SR for year of 2021-2022) p no:54 item no: 3 viii			0.00

S.No.	Qty.	Description	Rate	Unit	Amount
28	2.22	Supply and fixing of GRANITE TILED FLOORING (super fine polished with machine cut edges of size 2' x 1', 20mm thick, Ruby red/ raw silk) using grout joint, laid over CM 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, curing, finishing etc., all complete and as directed by the departmental officers. (Sample should be got approved by the Executive Engineer before use).all complete and as directed by the departmental officers	2257.40	sqm	5011.43
29	11.60	Supply and laying of machine cut edges Providing nosing to the edges of Granite slab (double) including labour all cost etc all complete and as directed by the departmental officers PWD SR P No: 2022-2023	366.60	Rmt	4252.56
30	3.06	Providing Precast concrete slab for cupboard ward robs shelves, cover slab for chambers, baffle walls side slabs of boxing around windows and other similar works in Standardized Concrete Mix M-20 Grade 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 also) all complete and as directed by the departmental officers In Ground floor	1403.93	sqm	4296.03

S.No.	Qty.	Description	Rate	Unit	Amount
31	5.49	Providing Precast concrete slab for cupboard ward robs shelves, cover slab for chambers, baffle walls side slabs of boxing around windows and other similar works in Standardized Concrete Mix M-20 Grade 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 also) In Ground floor	1546.77	Sqm	8491.77
32		Providing and laying in position, Standardized Concrete Mix M-20 Grade in accordance with IS: 456-2000, using 20mm and down graded hard broken stone jelly for all RCC items of works with minimum cement content of 325 Kg/m <sup>3</sup> and maximum water cement ratio of 0.55, including admixtures (Plasticiser/Super Plasticiser) in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5 Cu.m) 7730 Kg. of 20mm machine crushed stone jelly and with about (3.3 Cu.m.) 5156 Kg. of 10-12mm machine crushed stone jelly and with about (4.79 Cu.m) 7670 Kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing etc., and providing fixtures like fan clamps in the RCC floor/roof slabs wherever necessary without claiming extra, etc., complete all complete and as directed by the departmental officers			0.00
	1.09	b. Ground Floor	7657.97	cum	8347.19



S.No.	Qty.	Description	Rate	Unit	Amount
33	1.29	Fabrication supply and fixing in position of Aluminium partition with and centre with 5.5mm thick plain glass. The outer frame top and bottom using rectangular box section No.922 of 101.50x44.45x2mm at weight of 1.975 kg /m vertical as well as horizontal using rectangular box section No.9222 of 63.50x38.10x2mm at weight of 1.174 kg/m with accessories and furniture fittings including cost of materials, rubber bedding 'L' angles screws etc, and power consumption charges required for fabrication including making necessary holes in the columns, Beams, Masonry with power drill to the required extent and redoing the masonry to original conditions after fixing etc., complete. The Aluminium section anodized with matt finish under electrically controlled conditions in accordance with is specification 1863/1963 for anodic film thickness of not less than 15 microns. All the clips of section No.3979 of size 17.15 x 17.27 x 1.5mm at weight of 0.176 kg/m. All the materials should be got approved by the Executive Engineer before use on work	3879.13	sqm	5004.08
34	3.84	Providing Epoxy grout fosroc NITO tile EPW grout over the terrace tiles joint surface including cost of all materials and labour charges all complete and as directed by the departmental officers	376.60	Sqm	1446.14
35	6.85	Providing Nitozinc primer zinc rich epoxy based primer over the prepared reinforcement bars after mixing the base and hardner mechanically using heavy duty slow speed stirrer and applying the same using bristle brush to ensure an unbroken coatings all complete and as directed by the departmental officers	300.00	sqm	2055.00
36	4.00	Providing and fixing of new rods in place of damaged rods using lotfix range of polyester resin based chemical anchors including cost of all materials and labour charges all complete and as directed by the departmental officers	120.00	Point	480.00
37	6.85	Providing one coat of rust removal and cleaning the rod using reebaklens RR including cost of all materials and labour charges all complete and as directed by the departmental officers	500.00	sqm	3425.00

S.No.	Qty.	Description	Rate	Unit	Amount
38		Providing Form work and centering for reinforced cement concrete works including supports and strutting up to 3.30m height for plane surfaces as detailed below with all cross bracings using mild steel sheets of size 90cmx60cm and MS 10 gauge stiffened with welded mild steel angles of size 25mmx25mmx3mm for boarding laid over silver oak or country wood joists of size 10cmx6.5cm spaced at about 90cm centre to centre supported by caurina props 10cm to 13cm dia spaced at 75cm intervals and removing the same after a specified period without damaging the RCC works etc., complete complying with standard specifications and as directed by the departmental officers.			0.00
	6.61	b.Plain surfaces such as Roof slab,floorslab,Beams,lintels,lofts,sill slab,staircase,portico slab and other similar work	905.40	sqm	5984.69
39	6.48	Plastering in CM 1:3 (One of cement thee of sand) 12mm tk. mixed with water proof compound at 2% by weight of cement for sump including scaffolding curing, finishing etc., complete in all respects and complying with standard specifications.	265.93	Sqm	1723.23
		<b>TOTAL</b>			285996.39
		Good and service @ 18.0 %			51479.35
		<b>SUB -TOTAL - II</b>			337475.74
		Labour welfare fund @ 1.0 %			3374.76
		Contingencies charges @ 2.5%			8436.89
		Supervision charges @ 7.5 %			25310.68
		<b>TOTAL</b>			374598.07
			<b>Say</b>		374600.00

S.No.	Qty.	Description	Rate	Unit	Amount
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AE/Kallai

AEE/VPM

EE/SLM

**Name of work: Proposed Tamil Nadu Police Canteen at Old Police Station Building at Thiyaadurugam in Kallakuruchi District. ( Painting , Electrical & Grill work Group - II )**

**Abstract Estimate**

S.No.	Qty.	Description	Rate	Unit	Amount
1	8.42	White washing three coats using clean shall lime slaked including cost of lime, gum, blue,brushes, including scaffolding etc., all complete and as directed by the departmental Officers.	43.03	Sqm	362.31
2	31.89	<b>Painting primer coat</b> using approved quality of white cement over the cement plastered / concrete wall surfaces, ceiling or other similar works including cost of white cement, putty, brushes, watering, curing, etc., all complete and as directed by the departmental officers. Data	58.70	Sqm	1871.94
3	31.89	<b>Painting New wall two coats using approved quality of best OBD</b> (Oil Bound Distemper) paint for old wall over the priming coat on cement plastered / concrete wall surfaces, ceiling or other similar works including thorough scrapping, cost of paints, putty, brushes, watering, curing, etc., all complete and as directed by the departmental officers (paints and its shade shall be got approved from the Executive Engineer before using)	119.41	Sqm	3807.98
4	172.41	<b>Painting new wall two coats with ready mixed Plastic Emulsion Paint</b> of first class quality paint of approved colour and shade over a priming coat on cement plastered/ concrete wall surfaces or other similar works, including cost of necessary brushes, labour charges, patty etc.,all complete and as directed by the departmental officers (paints and its shade shall be got approved from the Executive Engineer before using) Data	222.41	sqm	38345.71
5		Supply and delivery of following Electric Ceiling fan with ISI mark with blades and double ball bearing, capacitor, etc., complete with 300mm down rod, canopies, capacitor, shackle blades with electronic dimmer regulator suitable for operation on 230 volts 50 HTZ single phase AC supply conforming to ISS No.374/79 and provided with case counterulation . (The brand should be got approved from the Executive Engineer before supply made). all complete and as directed by the departmental Officers.			0.00
	10.00	a.) 48" Electric Fan 1200mm sweep	1551.90	Nos	15519.00

S.No.	Qty.	Description	Rate	Unit	Amount
6	10.00	Charges of assembling and fixing of ceiling fan of different sweep with necessary connection and fixing of fan regulator on the existing board etc., all complete and as directed by the departmental Officers.	571.00	Nos	5710.00
7	8.00	Supply, assembling and fixing of 18 watts LED tube light with fitting of four feet long and fixing the tube light fitting on teak wood round blocks of 75mm dia 40mm deep suspended from ceiling or mounted on the wall including cost of all materials and labour for fixing in position and as directed by the departmental officers. (The entire fittings should be got approved from the Executive Engineer before use)	690.00	Nos	5520.00
8	2.00	Supply and fixing of 25 watts LED street light fitting complete with all accessories such as copper wire etc., complete using 25mm dia GI 'B' class pipe for 1.50m length, conforming to ISI specifications and including labour charges for fixing street light fittings in EB pole / wall etc. complete as directed by the departmental officers. (The quality and brand of entire fitting should be got approved from Executive Engineer before use.)	3367.00	Nos	6734.00
9	85.90	Run off ma case counter with 2 wires of 1.5 Sqmm copper PVC case counterulated unsheathed single core 1.1KV cable wire continuous earth by means of 1.5 Sqmm copper PVC case counterulated unsheathed single core 1.1 KV grade cable in fully concealed 19 mm / 20 mm dia rigid PVC condui all complete and as directed by the departmental Officers.	128.20	Rmt	11012.38
10	27.80	Run off main with 2 wires of 4 Sqmm 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 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark conforming to IS: 694/1990, 1.1 KV grade cable in fully concealed 19/20mm dia rigid PVC conduit pipe with ISI mark etc. including cost of all materials, specials etc. all complete and as directed by the departmental officers.	177.00	Rmt	4920.60

S.No.	Qty.	Description	Rate	Unit	Amount
11	29.00	Run off main with 2 wires of 2.5 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.	146.60	Rmt	4251.40
12	1433.46	Supplying and fixing Mild Steel grills as per the design approved to verandah enclosure or gate including one coat of primer and labour for fixing in position etc., all complete	70.15	Kg	100557.22
13	168.88	Painting the new iron work and other similar works such as PVC/ASTM pipes, kerb stones and grills with two coats of approved first class synthetic enamel ready mixed paint of approved quality and brand the paint should be supplied by the contractor at his own cost. (The quality and the brand of paint should be got approved by the Executive Engineer before use) complying with relevant standard specifications.	133.84	sqm	22602.90
14	1.29	Supplying and fixing of 4 mm thick pin headed Glass Panels with aluminium anodized U shape beeding or size 12x12 mm with 107 gram in average weight for 1 m length with aluminium bolts and nuts for the shutters of the steel windows already supplied to suit all the size and as directed by the departmental officers (The quality of glass and aluminium beeding should be got approved from the Executive Engineer before use)	726.60	sqm	937.31
15		Teak wood Ventilator Shutter ( 625X 285MM ) with 4mm thick pin headed glasses including labour & fixing charges all cost etc. all complete and as directed by the departmental Officers.			0.00
	0.54	d. Ventilator: (90 x 60 cm)	2742.85	Sqm	1481.14

S.No.	Qty.	Description	Rate	Unit	Amount
16	2.25	Supplying and fixing of best Indian TW single leaf door shutters using 9 mm thick phenol bonded BWR grade plywood as per IS 303-1989 (General ) with IS 5539-1969 (For perspective treatment and IS 848 –1974 (For adhesives) with relevant IS specification and its latest amendments for shutters with 75mmx37.50mm teak wood styles and 3 Nos. of 150x37.50 mm TW rail (Top, bottom and lock rails) using the above panels including labour charges and cost of furniture fittings as per schedule 'E' with brass screws and as directed by the departmental officers (The quality and the BWR plywood should be got approved from the Executive Engineer before use).	4132.14	Sqm	9297.32
17	1.00	Supplying and fixing of 450 mm dia sweep AC exhaust fan of approved ISI Quality including necessary wall opening, fixing and finishing the wall opening and making good including cost of materials, labour for fixing, chipping and redoing necessary inter connection, scaffolding, hire charges for tools and plants etc., all complete and as directed by the departmental Officers.	4281.25	No	4281.25
18	2.10	Providing T.W. double leaf shutters for cupboard/ward robes with 9mm thick phenol bonded BWR grade plywood as per IS 303-1989 (General) with IS 5539-1969 (For preservative treatment) and IS 848-1974 (For adhesive) with relevant IS specifications and ITS latest amendment for shutters. The all round frame made up of T.W scantling of 75mmX37.50mm and the styles made up of T.W. scantlings of 75mm X 37.50mm and shutter middle rail (Horizontal) made up of T.W scantling of 150mm 37x50mm including cost of plywood and labour for fixing in position, cost of	4173.90	sqm	8765.19
19	1.00	Acid wash cleaning for Bath & Toilet for the existing toilet floor tiles, wall tiles to make it dirty free including cost of materials and labours etc., as directed by the departmental officers.	500.00	Nos	500.00
		<b>TOTAL</b>			246477.65
		Good and service @ 18.0 %			44365.98
		<b>SUB -TOTAL - II</b>			290843.63
		Labour welfare fund @ 1.0 %			2908.44
		Contingencies charges @ 2.5%			7271.09
		Supervision charges @ 7.5 %			21813.27
		<b>TOTAL</b>			322836.43

S.No.	Qty.	Description	Rate	Unit	Amount
			Say		322900.00

AE/Kallai

AEE/VPM

EE/SLM