

COCHIN PORT AUTHORITY							
www.tenderwizard.com/CPT							
Tender No: T6/T-2100/2026-C Dated: 16-07-2026							
Name of Work : Civil Renovation Works, Providing New Electrical Facilities & Rewiring at Wharf Superintendant Office Building at Ernakulam Wharf.							
SCHEDULE – “IF”- SCHEDULE OF QUANTITIES OF WORK TO BE DONE ON CONTRACT							
Name and Address of the Vendor:							
Sl. No.	Sub- heads and items of work	Unit	Approximate Quantity	Departmental Rate/ unit Price (Rs)	Departmental Rate in Words	Departmental Amount in Rs.	Departmental Amount in Words
	PART-A- RENOVATION WORKS TO WHARF SUPDT. BUILDING						
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	m2	120.50	60.84	Rupees Sixty and Eighty Four Paise Only	7331.22	Rupees Seven Thousand Three Hundred Thirty One and Twenty Two Paise Only
2	Providing seven layer water proofing Coating with 15 GSM Fiber Glass Mesh over concrete roof after making the surface free from dirt, dust, algae, fungi & other contaminants by using suitable tools&equipemenet. 1.First Coating: Apply a single coat of modified styrene butadiene emulsion (bonding agent) 2.Second Coating: Fix fiber glass mesh above the first coating in wet condition. 3.Third Coating: Apply one coat of single component acrylic based polymer for cement based waterproof composite coating membrane. 4.Fourth Coating: Apply a single coat of primer for enhanced bonding. 5.Fifth & sixth coating: apply Two coats of high build fibre reinforced acrylic based modified polyurethane-Elastomeric solar reflective cum water poofing coating by roller or brush on the primed surface. 6.Seventh Coating: Single coat of acrylic slip resistance surface coating, sealer and hardner(transperant water repellent coating). Ther rate for waterproofing work shall include chemicals, manpower, tools and supervision. Re-plastering if any required will be paid extra.	m2	119.00	700.00	Rupees Seven Hundred Only	83300.00	Rupees Eighty Three Thousand Three Hundred Only
3	12 mm cement plaster of mix :1:4 (1 cement: 4 fine sand).	m2	120.50	386.34	Rupees Three Hundred Eighty Six and Thirty Four Paise Only	46553.97	Rupees Forty Six Thousand Five Hundred Fifty Three and Ninety Seven Paise Only
4	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of: Asbestos Cement sheet.	m2	246.60	86.05	Rupees Eighty Six and Five Paise Only	21219.93	Rupees Twenty One Thousand Two Hundred Nineteen and Ninety Three Paise Only
5	Providing roofing with troughed prepainted galvalume sheets, 0.50mm thick over purlins already fixed in position using respert grey /xylam coated anticorrosive fasteners like self drilling screws with EPDM/Neopreme washers including cost of all materials and labour, scaffolding all liffts etc. as per the directions of Engineer-in-Charge.	m2	246.60	798.10	Rupees Seven Hundred Ninety Eight and Ten Paise Only	196811.46	Rupees One Lakh Ninety Six Thousand Eight Hundred Eleven and Forty Six Paise Only
6	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 gram per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm).	m	20.30	592.62	Rupees Five Hundred Ninety Two and Sixty Two Paise Only	12030.19	Rupees Twelve Thousand Thirty and Eighteen Paise Only
7	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 gram per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Flashings/ Aprons.(Upto 600 mm).	m	23.30	540.57	Rupees Five Hundred Forty and Fifty Seven Paise Only	12595.28	Rupees Twelve Thousand Five Hundred Ninety Five and Twenty Eight Paise Only
8	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter.	m	45.90	420.13	Rupees Four Hundred Twenty and Thirteen Paise Only	19283.97	Rupees Nineteen Thousand Two Hundred Eighty Three and Ninety Six Paise Only

9	Providing Box type Eaves Gutter for trussed roof of size 200mm or suitable size including materials and labour.	m	45.50	630.00	Rupees Six Hundred Thirty Only	28665.00	Rupees Twenty Eight Thousand Six Hundred Sixty Five Only
10	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer- in-charge.	m2	234.50	62.73	Rupees Sixty Two and Seventy Three Paise Only	14710.19	Rupees Fourteen Thousand Seven Hundred Ten and Eighteen Paise Only
11	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	1460.90	148.84	Rupees One Hundred Forty Eight and Eighty Four Paise Only	217440.36	Rupees Two Lakh Seventeen Thousand Four Hundred Forty and Thirty Five Paise Only
12	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main nTò runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross nTò of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main nTò at 600 mm center to center to form a grid of 1200x600 mm and secondary cross nTò of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main nTò runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.	m2	179.20	1992.03	Rupees One Thousand Nine Hundred Ninety Two and Three Paise Only	356971.78	Rupees Three Lakh Fifty Six Thousand Nine Hundred Seventy One and Seventy Seven Paise Only
13	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	m2	1796.90	28.00	Rupees Twenty Eight Only	50313.20	Rupees Fifty Thousand Three Hundred Thirteen and Twenty Paise Only
14	Applying priming coats with primer of approved brand and manufacture,having low VOC (Volatile Organic Compound) content.With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	m2	1796.90	82.32	Rupees Eighty Two and Thirty Two Paise Only	147920.81	Rupees One Lakh Forty Seven Thousand Nine Hundred Twenty and Eighty Paise Only
15	Providing and applying white cement based putty of average thickness 1mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	m2	1796.90	173.72	Rupees One Hundred Seventy Three and Seventy Two Paise Only	312157.47	Rupees Three Lakh Twelve Thousand One Hundred Fifty Seven and Forty Six Paise Only
16	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats.	m2	1126.60	158.97	Rupees One Hundred Fifty Eight and Ninety Seven Paise Only	179095.60	Rupees One Lakh Seventy Nine Thousand Ninety Five and Sixty Paise Only
17	Finishing walls with Acrylic Smooth exterior paint of required shade : Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface.	m2	670.40	134.42	Rupees One Hundred Thirty Four and Forty Two Paise Only.	90115.17	Rupees Ninety Thousand One Hundred Fifteen and Sixteen Paise Only.
18	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.	m2	258.40	114.44	Rupees One Hundred Fourteen and Forty Four Paise Only	29571.30	Rupees Twenty Nine Thousand Five Hundred Seventy One and Twenty Nine Paise Only
19	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	m2	458.40	564.06	Rupees Five Hundred Sixty Four and Six Paise Only	258565.10	Rupees Two Lakh Fifty Eight Thousand Five Hundred Sixty Five and Ten Paise Only
20	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood.	m3	0.75	129711.56	Rupees One Lakh Twenty Nine Thousand Seven Hundred Eleven and Fifty Six Paise Only.	97283.67	Rupees Ninety Seven Thousand Two Hundred Eighty Three and Sixty Seven Paise Only
21	Providing wood work for wooden stair and steps fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood.	m3	0.20	159133.04	Rupees One Lakh Fifty Nine Thousand One Hundred Thirty Three and Fifty Six Paise Only.	31826.61	Rupees Thirty One Thousand Eight Hundred Twenty Six and Sixty Paise Only

22	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note: Butt hinges and necessary screws shall be paid separately) Kiln seasoned and chemically treated hollock wood 30 mm thick shutters.	m2	33.00	2979.90	Rupees Two Thousand Nine Hundred Seventy Nine and Ninety Paise Only	98336.70	Rupees Ninety Eight Thousand Three Hundred Thirty Six and Seventy Paise Only
23	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick. Float glass panes 4 mm thick glass pane (weight not less than 10 kg/sqm).	m2	12.00	2495.59	Rupees Two Thousand Four Hundred Ninety Five and Fifty Nine Paise Only	29947.08	Rupees Twenty Nine Thousand Nine Hundred Forty Seven and Eight Paise Only
24	Polishing in high gloss/matt finish melamine clear polish on wood work in required color/wooden shade texture with following process in the sequence as detailed below: 1.The surface to be polished is rubbed with sand paper 80/120 no. and then with sand paper of 160/180 nos. 2.Applying two coats of sealer with spray gun and allowing sufficient drying time for 1st coat and 2nd coat is allowed to dry for 8 to 12 hrs. 3.On drying of sealer coat, wet rubbing with emery cloth of finer grading with ample water to remove excess sealer layer and make the surface further smooth after this wet rubbing, then surface is applied with special grade melamine fillers to fill all the small and big holes/grooves etc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a light wet rubbing is done this surface is further allowed to dry for 12 hrs. 4.On this, 1st coat of melamine polish is applied with spray gun using melamine clear polish and melamine thinner in required proportion. This 1st coat is allowed to dry for 24 hrs then this dry surface is again fine wet rubbed smooth, which is further allowed to dry for 12 hrs. The final melamine polish is applied with compressor pressure spray gun using melamine clear polish and melamine thinner mixed in required proportion complete as per direction of Engineer-in-Charge. (Final coat to be done in 1 or 2 layers without gap of time.)	m2	31.00	3395.12	Rupees Three Thousand Three Hundred Ninety Five and Twelve Paise Only	105248.72	Rupees One Lakh Five Thousand Two Hundred Forty Eight and Seventy Two Paise Only
25	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : Of area 3 sq. metres and below.	each	1.00	159.75	Rupees One Hundred Fifty Nine and Seventy Five Paise Only	159.75	Rupees One Hundred Fifty Nine and Seventy Five Paise Only
26	Demolishing brick/laterite work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar.	m3	0.20	2293.44	Rupees Two Thousand Two Hundred Ninety Three and Forty Four Paise Only	458.69	Rupees Four Hundred Fifty Eight and Sixty Eight Paise Only
27	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron).	kg	346.70	591.00	Rupees Five Hundred Ninety One Only	204899.70	Rupees Two Lakh Four Thousand Eight Hundred Ninety Nine and Seventy Paise Only
28	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron).	kg	21.61	706.28	Rupees Seven Hundred Six and Twenty Eight Paise Only	15262.71	Rupees Fifteen Thousand Two Hundred Sixty Two and Seventy One Paise Only
29	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides.	m2	60.70	1241.67	Rupees One Thousand Two Hundred Forty One and Sixty Seven Paise Only	75369.37	Rupees Seventy Five Thousand Three Hundred Sixty Nine and Thirty Six Paise Only

30	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm).	m2	13.00	1675.66	Rupees One Thousand Six Hundred Seventy Five and Sixty Six Paise Only	21783.58	Rupees Twenty One Thousand Seven Hundred Eighty Three and Fifty Eight Paise Only
31	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	3.00	1094.45	Rupees One Thousand Ninety Four and Forty Five Paise Only	3283.35	Rupees Three Thousand Two Hundred Eighty Three and Thirty Five Paise Only
	Total PART-A- RENOVATION WORKS TO WHARF SUPDT. BUILDING					2768511.90	Rupees Twenty Seven Lakh Sixty Eight Thousand Five Hundred Eleven and Ninety Paise Only
	PART-B- CONSTRUCTION OF NEW TOILET BLOCK						
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	m2	25.20	60.84	Rupees Sixty and Eighty Four Paise Only	1533.17	Rupees One Thousand Five Hundred Thirty Three and Sixteen Paise Only
2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : Of area 3 sq. metres and below.	each	3.00	159.75	Rupees One Hundred Fifty Nine and Seventy Five Paise Only	479.25	Rupees Four Hundred Seventy Nine and Twenty Five Paise Only
3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) : With Modular bricks.	m3	4.50	9954.71	Rupees Nine Thousand Nine Hundred Fifty Four and Seventy One Paise	44796.20	Rupees Forty Four Thousand Seven Hundred Ninety Six and Nineteen Paise Only
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources).	m3	1.50	8120.53	Rupees Eight Thousand One Hundred Twenty and Fifty Three Paise Only	12180.80	Rupees Twelve Thousand One Hundred Eighty and Seventy Nine Paise Only
5	12 mm cement plaster of mix :1:4 (1 cement: 4 fine sand).	m2	69.10	386.34	Rupees Three Hundred Eighty Six and Thirty Four Paise Only	26696.09	Rupees Twenty Six Thousand Six Hundred Ninety Six and Nine Paise Only
6	Providing seven layer water proofing Coating with 15 GSM Fiber Glass Mesh over concrete roof after making the surface free from dirt, dust, algae, fungi & other contaminants by using suitable tools&equipemenet. 1.First Coating: Apply a single coat of modified styrene butadiene emulsion (bonding agent) 2.Second Coating: Fix fiber glass mesh above the first coating in wet condition. 3.Third Coating: Apply one coat of single component acrylic based polymer for cement based waterproof composite coating membrane. 4.Fourth Coating: Apply a single coat of primer for enhanced bonding. 5.Fifth & sixth coating: apply Two coats of high build fibre reinforced acrylic based modified polyurethane-Elastomeric solar reflective cum water poofing coating by roller or brush on the primed surface. 6.Seventh_Coating: Single coat of acrylic slip resistance surface coating, sealer and hardner(transparent water repellent coating). Ther rate for waterproofing work shall include chemicals, manpower, tools and supervision. Re-plastering if any required will be paid extra.	m2	51.20	700.00	Rupees Seven Hundred Only	35840.00	Rupees Thirty Five Thousand Eight Hundred Forty Only
7	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish of size Size of Tile 600 x 600 mm.	m2	83.80	1618.22	Rupees One Thousand Six Hundred Eighteen and Twenty One Paise Only	135606.64	Rupees One Lakh Thirty Five Thousand Six Hundred Six and Sixty Four Paise Only
8	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	m	14.60	635.59	Rupees Six Hundred Thirty Five and Fifty Eight Paise Only	9279.57	Rupees Nine Thousand Two Hundred Seventy Nine and Fifty Seven Paise Only

9	Providing and fixing to existing door frames.30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	m2	3.70	4141.98	Rupees Four Thousand One Hundred Forty One and Ninety Seven Paise Only	15325.31	Rupees Fifteen Thousand Three Hundred Twenty Five and Thirty One Paise Only
10	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.15 mm nominal dia Pipes.	m	20.00	554.16	Rupees Five Hundred Fifty Four and Fifteen Paise Only	11083.12	Rupees Eleven Thousand Eighty Three and Eleven Paise Only
11	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.20 mm nominal dia Pipes.	m	20.00	598.46	Rupees Five Hundred Ninety Eight and Forty Six Paise Only	11969.23	Rupees Eleven Thousand Nine Hundred Sixty Nine and Twenty Three Paise Only
12	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.25 mm nominal dia Pipes.	m	15.00	698.26	Rupees Six Hundred Ninety Eight and Twenty Six Paise Only	10473.91	Rupees Ten Thousand Four Hundred Seventy Three and Ninety One Paise Only
13	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.32 mm nominal dia Pipes.	m	15.00	823.00	Rupees Eight Hundred Twenty Two and Ninety Nine Paise Only	12344.94	Rupees Twelve Thousand Three Hundred Forty Four and Ninety Four Paise Only
14	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work. 100 mm nominal dia Pipes.	m	12.00	3642.09	Rupees Three Thousand Six Hundred Forty Two and Eight Paise Only	43705.07	Rupees Forty Three Thousand Seven Hundred Five and Six Paise Only
15	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	each	4.00	2478.40	Rupees Two Thousand Four Hundred Seventy Eight and Thirty Nine Paise Only	9913.58	Rupees Nine Thousand Nine Hundred Thirteen and Fifty Eight Paise Only
16	Providing and fixing PTMT bib cock of approved quality and colour.15 mm nominal bore, 86 mm long, weighing not less than 88 gms.	each	3.00	139.82	Rupees One Hundred Thirty Nine and Eighty One Paise Only	419.46	Rupees Four Hundred Nineteen and Forty Five Paise Only
17	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid.	each	2.00	8913.03	Rupees Eight Thousand Nine Hundred Thirteen and Two Paise Only	17826.05	Rupees Seventeen Thousand Eight Hundred Twenty Six and Five Paise Only
18	Supplying good quality Health Faucets of Parryware T9940A1 Slimline with SS Hose & Hook or approved equivalent make including all required fitting etc.Complete.	m	2.00	676.50	Rupees Six Hundred Seventy Six and Fifty Paise Only	1353.00	Rupees One Thousand Three Hundred Fifty Three Only
19	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete,including painting of fittings and brackets, cutting and making good the walls and floors wherever required :One urinal basin with 5 litre white P.V.C. automatic flushing cistern.	each	1.00	6967.30	Rupees Six Thousand Nine Hundred Sixty Seven and Thirty Paise Only	6967.30	Rupees Six Thousand Nine Hundred Sixty Seven and Thirty Paise Only

20	Supplying and fixing PVC floor traps 110mm dia. with 50mm deep seal and 63/75mm outlet.	each	4.00	200.00	Rupees Two Hundred Only	800.00	Rupees Eight Hundred Only
21	Providing and fixing PTMT grating of approved quality and colour.100 mm nominal dia.	each	4.00	41.86	Rupees Forty One and Eighty Five Paise Only	167.43	Rupees One Hundred Sixty Seven and Forty Two Paise Only
22	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood.	m3	0.50	129711.56	Rupees One Lakh Twenty Nine Thousand Seven Hundred Eleven	64855.78	Rupees Sixty Four Thousand Eight Hundred Fifty Five and Seventy Eight Paise Only
23	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note: Butt hinges and necessary screws shall be paid separately) Kiln seasoned and chemically treated hollock wood 30 mm thick shutters.	m2	15.00	2979.90	Rupees Two Thousand Nine Hundred Seventy Nine and Ninety Paise Only	44698.50	Rupees Forty Four Thousand Six Hundred Ninety Eight and Fifty Paise Only
24	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick. Float glass panes 4 mm thick glass pane (weight not less than 10 kg/sqm).	m2	5.00	2495.59	Rupees Two Thousand Four Hundred Ninety Five and Fifty Nine Paise Only	12477.95	Rupees Twelve Thousand Four Hundred Seventy Seven and Ninety Five Paise Only
25	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms.	each	4.00	128.35	Rupees One Hundred Twenty Eight and Thirty Five Paise Only	513.41	Rupees Five Hundred Thirteen and Forty One Paise Only
26	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	each	4.00	789.21	Rupees Seven Hundred Eighty Nine and Twenty One Paise Only	3156.84	Rupees Three Thousand One Hundred Fifty Six and Eighty Four Paise Only
	TOTAL PART-B- CONSTRUCTION OF NEW TOILET BLOCK					534462.62	Rupees Five Lakh Thirty Four Thousand Four Hundred Sixty Two and Sixty One Paise Only
	PART-C :- ELECTRICAL WORKS						
1	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLSH PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.						
1.1	2x16Sqmm+ 6sqmm(P+N+E).	MTR	216	1104.495	Rupees One Thousand One Hundred Four and Forty Nine Paise Only	238570.92	Rupees Two Lakh Thirty Eight Thousand Five Hundred Seventy and Ninety Two Paise Only
1.2	2x6Sqmm+ 6sqmm(P+N+E).	MTR	120	690.6025	Rupees Six Hundred Ninety and Sixty Paise Only	82872.30	Rupees Eighty Two Thousand Eight Hundred Seventy Two and Thirty Paise Only
1.3	2x4Sqmm+ 1x4sqmm(P+N+E).	MTR	79.2	501.83	Rupees Five Hundred One and Eighty Three Paise Only	39744.94	Rupees Thirty Nine Thousand Seven Hundred Forty Four and Ninety Three Paise Only
1.4	2x2.5Sqmm+ 1x2.5sqmm(P+N+E).	MTR	288	432.6525	Rupees Four Hundred Thirty Two and Sixty Five Paise Only	124603.92	Rupees One Lakh Twenty Four Thousand Six Hundred Three and Ninety Two Paise Only
1.5	2 x 1.5 sqmm + 1 x 1.5 sqmm (P+N+E).	MTR	180	383.4075	Rupees Three Hundred Eighty Three and Forty Paise Only	69013.35	Rupees Sixty Nine Thousand Thirteen and Thirty Five Paise Only

2	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm 1.1KV grade FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5sq.mm. FRLS PVC insulated copper conductor single core cable, ceiling rose etc as required.	EACH	35	1694.2625	Rupees One Thousand Six Hundred Ninety Four and Twenty Six Paise Only	59299.19	Rupees Fifty Nine Thousand Two Hundred Ninety Nine and Eighteen Paise Only
3	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.	EACH	20	1126.7256	Rupees One Thousand One Hundred Twenty Six and Seventy Two Paise Only	22534.51	Rupees Twenty Two Thousand Five Hundred Thirty Four and Fifty One Paise Only
4	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
4.1	4 way (8+12) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)	EACH	4	8807.82	Rupees Eight Thousand Eight Hundred Seven and Eighty Two Paise Only	35231.28	Rupees Thirty Five Thousand Two Hundred Thirty One and Twenty Eight Paise Only
5	SITC of 32 amps. SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	EACH	4	2511.495	Rupees Two Thousand Five Hundred Eleven and Forty Nine Paise Only	10045.98	Rupees Ten Thousand Forty Five and Ninety Eight Paise Only
6	Laying and clamping of 35 Sqmm to 95 sq mm of no. XLPE /PVC insulated and PVC sheathed armoured aluminium UG power cable, 1.1 KV grade using lamps/underground noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required.	MTR	60	152.425	Rupees One Hundred Fifty Two and Forty Two Paise Only	9145.50	Rupees Nine Thousand One Hundred Forty Five and Fifty Paise Only
7	Supplying and fixing following rating, Four pole, (Three phase and neutral),415 V, residual current circuit breaker (RCCB),having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
7.1	63 A FOUR POLE RCCB 30 MA	EACH	3	3367.42	Rupees Three Thousand Three Hundred Sixty Seven and Forty Two Paise Only	10102.26	Rupees Ten Thousand One Hundred Two and Twenty Six Paise Only
8	Supplying and fixing 6 A to 32 A rating, 240/415 V,10 kA Single pole , "C"curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					0.00	
8.1	SINGLE POLE MCB	EACH	36	300.16	Rupees Three Hundred and Sixteen Paise Only	10805.76	Rupees Ten Thousand Eight Hundred Five and Seventy Six Paise Only
9	Supplying and fixing following rating, Four pole, (Three phase and neutral),415 V, miniature circuit breaker, in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
9.1	63 A FOUR POLE MCB	EACH	1	1569	Rupees One Thousand Five Hundred Sixty Nine Only	1569.00	Rupees One Thousand Five Hundred Sixty Nine Only
10	Installation, testing and commissioning of pre-wired, LED fitting /fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	EACH	48	241.535	Rupees Two Hundred Forty One and Fifty Three Paise Only	11593.68	Rupees Eleven Thousand Five Hundred Ninety Three and Sixty Eight Paise Only
11	Supplying and fixing call bell/ buzzer suitable for single phase,230 V, complete as required.	EACH	2	116.0775	Rupees One Hundred Sixteen and Seven Paise Only	232.16	Rupees Two Hundred Thirty Two and Fifteen Paise Only
12	Supplying and fixing of LED fancy wall light 10/9 Watts with all accessories	EACH	10	1201.535	Rupees One Thousand Two Hundred One and Fifty Three Paise Only	12015.35	Rupees Twelve Thousand Fifteen and Thirty Five Paise Only
13	Supplying and fixing of 4 feet LED Tubelight fittings 20W make Havells Endura Linear Neo or Equivalent	EACH	24	600	Rupees Six Hundred Only	14400.00	Rupees Fourteen Thousand Four Hundred Only
14	Supplying and fixing led down light 18/15 watts white/ neutral white 4000k-6500k,5000 burning hours	EACH	20	895	Rupees Eight Hundred Ninety Five Only	17900.00	Rupees Seventeen Thousand Nine Hundred Only

15	Supplying and fixing LED mirror light 7/9 watt ,warm white Moonglade pic light philips or its equal	EACH	2	1219	Rupees One Thousand Two Hundred Nineteen Only	2438.00	Rupees Two Thousand Four Hundred Thirty Eight Only
16	Supplying and fixing LED panel light 2*2 panel 6500k,minimum 5000 burning hours crompton ,philips , HAVELLS - PLUTO OR EQUIVALENT	MTR	32	3581	Rupees Three Thousand Five Hundred Eighty One Only	114592.00	Rupees One Lakh Fourteen Thousand Five Hundred Ninety Two Only
17	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required						
17.1	5/6 A switch	EACH	15	120.7675	Rupees One Hundred Twenty and Seventy Six Paise Only	1811.51	Rupees One Thousand Eight Hundred Eleven and Fifty One Paise Only
17.2	3 pin 5/6 A socket outlet	EACH	7	143.045	Rupees One Hundred Forty Three and Four Paise Only	1001.32	Rupees One Thousand One and Thirty One Paise Only
17.3	15/16 A switch	EACH	7	182.91	Rupees One Hundred Eighty Two and Ninety One Paise Only	1280.37	Rupees One Thousand Two Hundred Eighty and Thirty Seven Paise Only
17.4	6 pin 15/16 A socket outlet	EACH	10	230.9825	Rupees Two Hundred Thirty and Ninety Eight Paise Only	2309.83	Rupees Two Thousand Three Hundred Nine and Eighty Two Paise Only
17.5	bell push	EACH	2	164.15	Rupees One Hundred Sixty Four and Fifteen Paise Only	328.30	Rupees Three Hundred Twenty Eight and Thirty Paise Only
18	Supplying and fixing following size / modules, GI box along with modular base and cover plate for modular switches in recess etc.						
18.1	2 module	EACH	4	349.405	Rupees Three Hundred Forty Nine and Forty Paise Only	1397.62	Rupees One Thousand Three Hundred Ninety Seven and Sixty Two Paise Only
18.2	3 module	EACH	7	383.4075	Rupees Three Hundred Eighty Three and Forty Paise Only	2683.85	Rupees Two Thousand Six Hundred Eighty Three and Eighty Five Paise Only
18.3	6 module	EACH	8	471.345	Rupees Four Hundred Seventy One and Thirty Four Paise Only	3770.76	Rupees Three Thousand Seven Hundred Seventy and Seventy Six Paise Only
	ELV						
B	Telephone						
19	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. As required. Telephone socket outlet	EACH	12	450	Rupees Four Hundred Fifty Only	5400.00	Rupees Five Thousand Four Hundred Only
20	Supply and drawing 2 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable through including PVC capping and casing/conduit in recesses/surface materials along the wall ,terminating etc as required complete.	MTR	360	44.555	Rupees Forty Four and Fifty Five Paise Only	16039.80	Rupees Sixteen Thousand Thirty Nine and Eighty Paise Only
21	Supply and drawing 20 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor,Jelly filled armored telephone cable through including PVC capping and casing/conduit in recesses/surface materials along the wall ,terminating etc as required complete.	MTR	170	185	Rupees One Hundred Eighty Five Only	31450.00	Rupees Thirty One Thousand Four Hundred Fifty Only
22	SITC of Polycarbonate krone box with 20 pair krone for telephone system including termination of cables as required. 100 pair	EACH	9	1200	Rupees One Thousand Two Hundred Only	10800.00	Rupees Ten Thousand Eight Hundred Only
23	SITC of Polycarbonate krone box with 100 pair krone for telephone system including termination of cables as required. 100 pair	EACH	2	3000	Rupees Three Thousand Only	6000.00	Rupees Six Thousand Only

24	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.						
24.1	20 mm	MTR	180	261.4675	Rupees Two Hundred Sixty One and Forty Six Paise Only	47064.15	Rupees Forty Seven Thousand Sixty Four and Fifteen Paise Only
24.2	25 mm	MTR	336	300.16	Rupees Three Hundred and Sixteen Paise Only	100853.76	Rupees One Lakh Eight Hundred Fifty Three and Seventy Six Paise Only
25	Dismantling the existing Electrical fittings,Krone box , old wiring materials , Switch boards, Panels, fans etc. Keep record and shifting to store/ dumping yard etc. and refixing the items (AC Unit's ,DB'S TV, CABLES , light Fittings, etc .) as required.	LS	1	19294	Rupees Nineteen Thousand Two Hundred Ninety Four Only	19294.00	Rupees Nineteen Thousand Two Hundred Ninety Four Only
26	Supply and providing additional (other than normal supply with Equipment) following sizes of hard drawn copper refrigerant pipe with all accessories such as elbow, support clamps etc, also including brazing pressure testing etc. complete for interconnecting condensing unit and evaporating unit including thermal insulation with 9mm Nitrile rubber seal, form sleeve , foam sleeve, bracing, leak testing etc with necessary supports as required. 3/8; diameter 22 guage. Extra if needed after the standard length.	MTR	15	1500	Rupees One Thousand Five Hundred Only	22500.00	Rupees Twenty Two Thousand Five Hundred Only
27	SITC of 1.5 TR Inverter type 5 star high wall mounting split air conditioner unit of the following ratings conforming to relevant IS suitable for operating on 230V,50Hz single phase AC supply, filled with R-410A refrigerant gas, high energy efficient, RoHS complaint, capable of performing functions like cooling,dehumidifying, air circulating, filtering etc of following capacity includingrefrigerant copper piping 3 m with insulation, control cable up to 5 m, 3 m drain pipe, condenser stand, microprocessor control with cordless remote control etc.three year warranty for machine required free service.	EACH	4	38357.62712	Rupees Thirty Eight Thousand Three Hundred Fifty Seven and Sixty Two Paise Only	153430.51	Rupees One Lakh Fifty Three Thousand Four Hundred Thirty and Fifty Paise Only
28	SITC OF STABILIZER 4 KVA V-GUARD OR EQUIVALENT	EACH	4	2966.101695	Rupees Two Thousand Nine Hundred Sixty Six and Ten Paise Only	11864.41	Rupees Eleven Thousand Eight Hundred Sixty Four and Forty Paise Only
29	Supplying and fixing of suitable size GI box with modular plate and cover infront of the surface or in recess including and providing and fixing 25A Modular socket outlet and 25A SP mcb including painting and connections ,as required.	EACH	9	1014.165	Rupees One Thousand Fourteen and Sixteen Paise Only	9127.49	Rupees Nine Thousand One Hundred Twenty Seven and Forty Eight Paise Only
30	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, with remote for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	EACH	15	3808.35	Rupees Three Thousand Eight Hundred Eight and Thirty Five Paise Only	57125.25	Rupees Fifty Seven Thousand One Hundred Twenty Five and Twenty Five Paise Only
31	Re installation of Old AC units and with Copper pipes including Gas charging etc. as per standards.	Each	4	4800	Rupees Four Thousand Eight Hundred Only	19200.00	Rupees Nineteen Thousand Two Hundred Only
32	Supply, laying and clamping of following sizes of 1 no. XLPE /PVC insulated and PVC sheathed armoured aluminium UG power cable, 1.1 KV grade using clamps/underground noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required						
32.1	3.5core 25 sq mm with factory made clamp	MTR	38	208.4875	Rupees Two Hundred Eight and Forty Eight Paise Only	7922.53	Rupees Seven Thousand Nine Hundred Twenty Two and Fifty Two Paise Only
32.2	3.5core 50 sq mm with factory made clamp	MTR	70	333.865	Rupees Three Hundred Thirty Three and Eighty Six Paise Only	23370.55	Rupees Twenty Three Thousand Three Hundred Seventy and Fifty Five Paise Only

	TOTAL PART-C (Electrical Works)					1442736.08	Rupees Fourteen Lakh Forty Two Thousand Seven Hundred Thirty Six and Eight Paise Only
	GRAND TOTAL FOR PART-A+PART-B+PART C					47,45,710.60	Rupees Forty Seven Lakh Forty Five Thousand Seven Hundred Ten and Sixty Paise Only
	BIDDER'S QUOTING AREA						
	Description of Work: Renovation of Wharf Superintendant Office Building at Ernakulam Wharf & Providing New Electrical Facilities and Rewiring at Wharf Suptd. Office Building at Ernakulam Wharf	Departmental Estimated Cost (Rs)	Percentage Quoted above/ below the Departmental Amount by the Bidder		Above/Below		
			* In Figures	*In Words			
	Perccenatge Quoted above / below the Departmental Amount shown in the above Schedule	47,45,710.60					
	* Note						
	1. The Tenderer shall quote either plus or minus sign (eg: +5 or -5) and in figures and words						
	2. Only two decimal digits shall be accepted						
	3. Tenderers shall also quote Above/ Below in words themselves in the last column.						
	4.In case of discepancy in words and figures the quoted figure in word will prevail						