



Tender Details

Tender Details > **Tender Consolidated Details**

Tender ID: 183483	IFB/Tender Notice No.:HD-10/25	Description of Material/Name of Work: Upgradation of backup area of cargo berth no 15 inside Cargo Jetty area
ECV (INR):552712234.00	Last Date For Bid Submission: 17-06-2025 12:00	Tender Type/Tender Category :Open/WORKS
Location: Kachchh	Department: Deendayal Port Authority	Sub Department: Town Development Division

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BOQ Civil Part

Item No.	Item Description	Qty	Unit
1	Removal of Garbage/debries by mechanical means (Hydraulic excavator)/manual means over areas including getting out and disposal of stuff lead beyond 2.00 km upto 2.50Km outside cargo jetty area, as directed by Engineer-in-charge.	41596.000	m3
2	Reclamation of area for plot & approach road with mechanical plants equipments with quarry spall not exceeding 125 mm th. Including cost of excavation royalty taxes loading, unloading, transportation, spreading to required level, levelling, dressing in a layer of not more than 300 mm etc. & wet consolidation by loaded trucks movement and at top with power vibratory roller etc. complete with all labour and material as directed by Engineer-in-charge.	280776.000	m3
3	Construction of granular sub - base by providing, laying, spreading and compacting CLOSE/ COARSE GRADED MATERIAL spreading in uniform layers with motor grader on prepared surface and compacting with power vibratory roller of required type and capacity to achieve the desired density including all labour, watering, material , machinery, lighting, guarding, barricading complete as directed.(Mix in place method). a) With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	99213.000	m3

Item No.	Item Description	Qty	Unit
4	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub-base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	60001.800	m3
5	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom. (A) With rapid setting bitumen emulsion i) On W.B.M / W.M.M. @ 0.40 kg/sqm	196895.000	m2
B	With rapid setting bitumen emulsion On bituminous surface @ 0.25kg/sqm Over 1st layer & 2nd layer	206385.000	m2

Item No.	Item Description	Qty	Unit
6	<p>Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge. (A) 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5percent (percentage by weight of total mix) and lime filler @ 2percent (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.</p>	39402.000	MT

Item No.	Item Description	Qty	Unit
7	<p>Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge. a) 40/50 mm compacted thickness with bitumen of grade PMB-76E-10 @ 6.00 percent (percentage by weight of total mix) and lime filler @ 3percent (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.</p>	19450.000	M T
8	<p>Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. a) All kinds of soil / GSB Filled Area / Asphalted surface</p>	18952.000	m3
9	<p>Supplying and filling in plinth with sand in layer not exceeding 200mm thickness under floors, including watering, ramming, consolidating and dressing complete.</p>	1625.000	m3

Item No.	Item Description	Qty	Unit
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : a) 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	1342.040	m3
11	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (A) All works upto plinth level for	6070.080	m3
12	Providing, laying and fixing in position upto 1 km lead design mix reinforced cement controlled concrete for RCC Precast slab / RCC Precast curbing of design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping / placing of concrete to site of laying including the cost of centering, shuttering, finishing as per direction of Engineer-in-charge. (Rate is exclusive of cost of reinforcement)	2466.000	m3

Item No.	Item Description	Qty	Unit
13	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth level. A) Thermo-Mechanically Treated bars of grade Fe- 500D or more.	810702.000	Kg
14	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	4738.000	m3
15	Extra rate for conveying the excavated stuff by motor - truck a) Lead upto 3.50 BEYOND 3.00 KM	14214.000	m3
16	12 mm cement plaster finished with a floating coat of neat cement of mix : a) 1:3 (1 cement: 3 fine sand)	31993.000	m2
17	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : a) Water thinnable cement primer	36447.000	m2
18	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: a) New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	36483.000	m2

Item No.	Item Description	Qty	Unit
19	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	7211.200	m2
20	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & 60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern.	13475.000	m2

Item No.	Item Description	Qty	Unit
21	<p>Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro-reflective surface shall be 35 (+/-5) degrees to base. The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.</p>	1926.000	each

Item No.	Item Description	Qty	Unit
22	Providing and applying 2.5 mm thick road marking strips (retro-reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in- charge and accordance with applicable specifications.	2021.000	m2
23	Providing and fixing signs board with a corrosion resistance 2mm thick aluminium alloy sheet with high intensity peismatic (HIP) grade retro reflectivesheet, including fixing on structure as directed including lettering overhead sign etc complete all laboursand materials as directed by engineer-in-charge (excluding cost of frame work).	69.000	m2
24	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a epoxy based priming coat of approved steel primer all complete.	76884.280	kg
25	Finishing with Epoxy paint (two coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.	2587.900	m2

Item No.	Item Description	Qty	Unit
26	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	2587.900	m2

Item No.	Item Description	Qty	Unit
27	<p>Providing & Fixing Cable Tray support as per the Technical Specification:</p> <p>The FRP ladder type cable tray System shall be of following size:</p> <p>Width (W): 600mm Rung Width (W): 600mm Side Runner Height (H): 150mm Rung Width: ≥ 25 mm Rung Height: ≥ 25 mm Rung C to C: ≤ 250 mm Thickness (T): ≥ 4 mm Length (L): 3000mm/2500mm Thickness of Tray Cover: ≥ 2 mm The FRP material of the Cable Tray shall be Fire retardant, UV resistant, Halogen free, Non toxic, Non corrosive, Non erosive, Non magnetic and shall have high Load bearing capacity, very low thermal conductivity & long life cycle. The Cable Tray System shall include all the accessories including but not limited to Horizontal Tee, 90 degree Elbow, etc. along with Coupler Plates, clamps, fasteners etc. (stainless steel SS304 material). The Cable Tray manufacturing shall be ISO 9001: 2000. Providing & Fixing Cable Tray support as per the Technical Specification: The FRP ladder type cable tray System shall be of following size: Width (W): 600mm Rung Width (W): 600mm Side Runner Height (H): 150mm Rung Width: ≥ 25 mm Rung Height: ≥ 25 mm Rung C to C: ≤ 250 mm Thickness (T): ≥ 4 mm Length (L): 3000mm/2500mm Thickness of Tray Cover: ≥ 2 mm The FRP material of the Cable Tray shall be Fire retardant, UV resistant, Halogen free, Non toxic, Non corrosive, Non erosive, Non</p>	3420.000	Rmt

Item No.	Item Description	Qty	Unit
	magnetic and shall have high Load bearing capacity, very low thermal conductivity & long life cycle. The Cable Tray System shall include all the accessories including but not limited to Horizontal Tee, 90 degree Elbow, etc. along with Coupler Plates, clamps, fasteners etc. (stainless steel SS304 material). The Cable Tray manufacturing shall be ISO 9001: 2000. The work includes loading unloading transportation and fixing on the RCC wall of the drain complete all material labour etc as directed.		
28	Dry Stone filling in foundation with Black trap stone Boulder including supply of Boulder and preparing surface complete including Royalty, loading, unloading and transportation at the site of work.	140.000	m3
29	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) (i) Cement mortar 1:6 (1 cement : 6 coarse sand)	66.000	m3
30	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in all shapes and sizes in :. a) In foundation and plinth in: i) Cement mortar 1:6 (1 cement : 6 coarse sand)	7.000	m3
b	In superstructure above plinth level up to floor V level in all shapes and sizes in : i) Cement mortar 1:4 (1 cement : 4 coarse sand)	105.000	m3

Item No.	Item Description	Qty	Unit
31	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). a) Second class teak wood	0.440	m3
32	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. a) 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	24.000	m2
33	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : a) 125x85x5.5 mm (heavy type)	36.000	each
34	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	12.000	each
35	Providing and fixing Brass tower bolt (barrel type) 250x10 mm , ISI marked, as per relevent IS) required colour or shade, with necessary screws etc. complete :	12.000	each

Item No.	Item Description	Qty	Unit
36	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : a) 250x10 mm	9.000	each
37	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :	18.000	each
38	Providing and fixing bright finished brass handles with screws etc.complete: 125 mm	24.000	each
39	Providing and fixing Brass door latch 250x16x5 mm (0.350 kg)	9.000	each
40	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	12.000	each

Item No.	Item Description	Qty	Unit
41	<p>Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile),appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg),G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc.After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in- Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately) a) Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing</p>	38.000	m2

Item No.	Item Description	Qty	Unit
	bead of appropriate dimension. (Area of window upto 1.75 sqm)		
42	<p>Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1\text{mm}$), with wall thickness 2.0 mm ($\pm 0.2\text{ mm}$), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws,joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ($\pm 0.1\text{ mm}$) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. a) Extruded section profile size 48x40 mm</p>	42.750	mtr

Item No.	Item Description	Qty	Unit
43 a	<p>Providing and fixing to existing door frames. 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).</p>	13.200	m2

Item No.	Item Description	Qty	Unit
44	<p>Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required)extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket,stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in- Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5percent tolerance in dimension i.e. in depth & width of profile shall be acceptable. A)</p>	3.000	m2

Item No.	Item Description	Qty	Unit
	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)		
B	Casement window double panels with S.S. friction hinges (300 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window above 0.75 sqm upto 1.50 sqm).	16.000	m2

Item No.	Item Description	Qty	Unit
45	<p>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.</p> <p>Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, 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) : a) Powder coated aluminium (minimum thickness of powder coating 50 micron)</p>	99.000	kg
46	<p>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- a) Pre-laminated particle board with decorative lamination on both sides</p>	11.000	m2

Item No.	Item Description	Qty	Unit
47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel roovigs incorporating minimum 0.3percent ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent,clear or pigmented, textured or smooth as specified. a) 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified or 2 mm thick flat	40.000	m2

BOQ Civil Part - 1

Item No.	Item Description	Qty	Unit
48	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	916.000	m2

Item No.	Item Description	Qty	Unit
49	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade A) Area of slab over 0.50 sqm	60.000	m2
50	Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	1.000	EACH

Item No.	Item Description	Qty	Unit
51	<p>Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08percent and conforming to IS: 15622, of approved make, in all colours and shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. A)Size of Tile 600x600 mm</p> <p>I) Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling /grouting and finishing complete as per direction of Engineer-in-charge.</p>	315.000	M2
52	<p>Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : A) 25 mm thick</p>	24.000	M2

Item No.	Item Description	Qty	Unit
53	<p>Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08percent and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 9 mm thickness, including Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling /grouting and finishing complete as per direction of Engineer-in-charge.</p> <p>(a) Size of Tile 600 x 600 mm</p>	939.400	M2
54	<p>Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey,Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement :4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.</p>	65.700	M2

Item No.	Item Description	Qty	Unit
55	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	135.500	M2
56	Providing and laying the water proofing on terrace by providing avrage 90 mm thick of brick bat coba to necessary gradient and joint filled in CM 1:3 with mixing water proofing compound as per manufacturer' specification , rough to receive china mosaic (broken piece of china mosaic) of approved colour and pattern over top surface in CM 1:3 and with cement slurry, giving proper slope to drain out rain water, compaction, curing etc., complete all labour and materials as directed by Engineer-in-charge. (a) For work up to floor two level	317.600	m2
57	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : a) 100 mm dia	16.000	each

Item No.	Item Description	Qty	Unit
58	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : a) W.C. pan with ISI marked white solid plastic seat and lid	1.000	each
59	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:& its accessories. a) White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	5.000	each
60	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	3.000	each

Item No.	Item Description	Qty	Unit
61	Providing and fixing brass bib cock of approved quality : a) 15 mm nominal bore	14.000	each
62	Providing and fixing C.P .Brass Stop cock. a) 15 mm dia. - weight 0.40 kg	11.000	each
63	Providing and fixing Stainless Steel A ISi 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : a) 610x510 mm bowl depth 200 mm	1.000	each
64	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	9.000	each
65	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m 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) a) 15 mm nominal outer dia Pipes	75.000	mtr
b	20 mm nominal outer dia Pipes	45.000	mtr
c	25 mm nominal outer dia Pipes	30.000	mtr

Item No.	Item Description	Qty	Unit
66	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. a) 32 mm nominal outtr dia pipes external work	30.000	mtr
67	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. a) 110 mm diameter	30.000	mtr
68	Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length,including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. a) 110 mm	12.000	each
69	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS- 12818 and making good the same etc. complete as per direction of Engineer-in-charge.	3.000	each

Item No.	Item Description	Qty	Unit
70	<p>Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : a) Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : i) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5</p>	7.000	each

Item No.	Item Description	Qty	Unit
71	Providing & fixing SWR PVC (I.S.I - IS 13592) waste or vent pipe including necessary specials such as Tees, Bends, Y's Plinth offsets, Shoes , Vent cowl etc . with bracket , screws on wooden plugs fixed on wall face including filling joints with solution & cement mortar 1:2 including the cost of specials wherever required and, excavation and refilling of the trenches or fixing on walls or similar structures with clamps and testing the joints etc. complete as directed. a) Pipe 75 mm outer dia.	32.000	Mtr
b	110 mm dia. (OD)	60.000	Mtr
72	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. including the cost of specials wherever required and, excavation and refilling of the trenches or fixing on walls or similar structures with clamps and testing the joints etc. complete as directed. a) 150 mm dia. R.C.C. pipe	18.000	Mtr
73	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	6000.000	ltr

Item No.	Item Description	Qty	Unit
74	Cutting holes up to 15x15 cm in floors and roofs, walls for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof a) For pipes 100 to 160 mm dia.	17.000	each
75	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	3.000	each
76	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	880.000	m2
77	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : a) Two or more coats on new work	880.000	m2
78	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	21.000	m2

Item No.	Item Description	Qty	Unit
79	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. a) 80x1.25 mm M.S. laths with 1.25 mm thick top cover	14.000	M2
b	Providing and fixing ball bearing for rolling shutters.	3.000	Each
c	Extra for providing mechanical device chain and crank operation for operating rolling shutters. i) Exceeding 10.00 sqm and upto 16.80 sqm in the area	14.000	M2

Item No.	Item Description	Qty	Unit
80	Supplying, testing, commissioning RO Plants of 150 Litre per hour capacity (including required PVC water tank) of approved make which consists of all necessary parts viz motor pump of required capacity, multipart valve, 20" bowl & filter silver process of high pressure pump of required capacity, multipart valve, 20" bowl & filter silver process of high pressure pump of required capacity, membrane, Rotameter, pressure meter, electric panel with M.S. Cabinet all necessary Electric & other connection required to commissioned the RO Plant which gives the required TDS complete with loading, unloading & Transportation, Installation including all taxes with one year warrantee and maintenance free.	2.000	each

BOQ Electrical Work

Item No.	Item Description	Qty	Unit
1	Supply, Installation, Testing and commissioing of Distribution panel & Feeder Panel for distribution of underground power supply as per technical specification No.1 (a) Main Distribution panel Supply	1.000	No.
(ii)	Installation, Testing and commissioing	1.000	No.
(b)	Feeder panel as per technical (i) Supply	1.000	No.
(ii)	Installation, Testing and commissioing	1.000	No.

Item No.	Item Description	Qty	Unit
2	Supply at site 4 Core, LT armoured aluminium conductor XLPE cable of 1.1kV grade of following type & size as per Technical Specification No. 2. (a) 4 Core X 95 Sq.mm	400.000	Mtr.
(e)	4 Core X 16 Sq.mm	150.000	Mtr.
(f)	4 Core X 4 Sq.mm	250.000	Mtr.
3	Laying of LT armoured aluminium conductor XLPE cable of 1.1kV grade of size 4 core, 35 Sq.mm through following type as per Technical Specification No. 3. (a) Hard/Soft Soil	450.000	Mtr.
(c)	On wall through saddles & clamps	300.000	Mtr.
(d)	In GI Class-B Pipe	50.000	Mtr.
4	Providing & fixing following concealed wiring for single phase sub-circuit from the main switch /meter.DBs / MCBs to the switch board as per Technical Specification No. 4. (a) with 2 x 2.5 sq.mm. copper conductor (single phase and neutral)	500.000	Mtr.
(b)	with 2 x 4 sq.mm. copper conductor (single phase and neutral)	150.000	Mtr.
5	Providing and Fixing concealed wiring for light/tube/bell point with PVC insulated single core standard 1.5 Sq.mm. copper conductor wire as per Technical Specification No. 5.	68.000	No.
6	Providing and Fixing concealed wiring for Fan point with PVC insulated single core standard 1.5 Sq.mm. copper conductor wire & single/twin module step cut electronic fan regulator as case may be as per Technical Specification No. 6.	31.000	No.

Item No.	Item Description	Qty	Unit
7	Providing and fixing concealed wiring for 5/6A X250 Volt. As per Technical Specification No. 7. (a) (a) Full plug point.	44.000	No.
(b)	Half Plug Point.	23.000	No.
8	Providing and fixing concealed wiring, for 15/16A X250 Volt Power point as per Technical Specification No. 8.	21.000	No.
9	Providing and fixing concealed wiring, for AC Point 20A X 230 V with individual Switch & Socket as per Technical Specification No. 9.	6.000	No.
10	Providing and fixing concealed wiring for 3 x 5/6A X250 Volt Plug point with 3 No. SP switches for computer as per Technical Specification No. 10.	10.000	No.
11	Supply & installation of following type distribution board along with complete with DP, SP MCB & ELCB as per Technical specification No. 11. a) Supply	3.000	No.
(b)	Installation & Commissioning	3.000	No.
12	Supply & Fixing of 4ft, LED Tube white Light Fixture of 20-22 Watt with complete accessories as per Technical Specification No. 12. a) Supply	63.000	No.
(b)	Fixing	63.000	No.
13	Supply & Fixing of 1200mm sweep ordinary ceiling fan with all accessories as per Technical Specification No. 13. (a) Supply	31.000	No.
(b)	Fixing	31.000	No.

Item No.	Item Description	Qty	Unit
14	Supply & Fixing of 225mm sweep Exhaust fan with all accessories as per Technical Specification No. 14. a) Supply	18.000	No.
(b)	Fixing	18.000	No.
15	Supply & Fixing of 10Watt LED bulk Head light fixture with all accessories as per Technical Specification No. 15. (a) Supply	20.000	No.
(b)	Fixing	20.000	No.
16	Supply & Fixing of 60 Watt LED Street light fixture with all accessories as per Technical Specification No. 16. (a) Supply	28.000	No.
(b)	Fixing	28.000	No.
17	Supply of Hot presss moulded SMC junction box with outer Dia 140 x 140 x 95 mm with left hinged door as per Technical Specification No. 17. (a) Supply	28.000	No.
(b)	Fixing	28.000	No.
18	Providing & fixing M S finish Double Door MCB distribution board with following ways from incoming/outgoing with suitable common bus bar and neutral link arrangement as per TechnicalSpecification No. 18. (i) MCB DB - 8 ways (a) Supply	3.000	No.
(b)	Fixing	3.000	No.
(a)	MCB DB - 12 ways (a) Supply	1.000	No.
(b)	Fixing	1.000	No.
(a)	MCB DB - 16 ways (a) Supply	1.000	No.
(b)	Fixing	1.000	No.

Item No.	Item Description	Qty	Unit
19	Providing & fixing following type of MCBs of approved make in distribution board with all necessary wiring & connection as per Technical Specification No. 19. (i) 40A, 415/440V, 4P (TPN) MCB (a) Supply	4.000	No.
(b)	Fixing	4.000	No.
(II)	6 -32 A 230/250V DP MCB (a) Supply	2.000	No.
(b)	Fixing	2.000	No.
(III)	6 -32 A 230/250V SP MCB (a) Supply	40.000	No.
(b)	Fixing	40.000	No.
20	Preparation earthing station, chemical treated back filled compound earthing system with Pipe-In-Pipe 50 mm Dia GI type 2 Mtr Depth, Maintenance free. as per Technical Specification No. 20.	5.000	No.
21	Supply, Laying, connecting of GI Strips Connecting earth station to the equipment as per Technical Specification No. 21. (a) 25x3mm thick I)Supply	100.000	Mtr
(II)	Laying, connecting	100.000	Mtr.
22	Providing & connecting following type earth wire for earth station to Main DB / Meter/SB as per requirement as per Technical Specification No. 22. (a) 8 SWG GI earthing wire.	250.000	Mtr.

Notes

Subwork Name	Description	Period of Completion	Scope of Subwork
BOQ Civil Part	As per tender	18.0	As per tender

Subwork Name	Description	Period of Completion	Scope of Subwork
BOQ Civil Part - 1	As per Tender	18.0	As per Tender
BOQ Electrical Work	As per Tender	18.0	As per Tender

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