



Tender Details

Tender Details > **Tender Consolidated Details**

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| Tender ID: 204192 | IFB/Tender Notice No.:HD-19/25 | Description of Material/Name of Work: Upgradation of backup area of cargo berth no 16 inside Cargo Jetty area |
| ECV (INR):5315383 52.00 | Last Date For Bid Submission: 13-08-2025 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 Work](#) || [BOQ Civil Work Item 45 To 84](#) || [View All Subwork](#)

BOQ Civil Work

| Item No. | Item Description | Qty | Unit |
|----------|--|-----------|------|
| 1 | 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 | 11612.320 | m3 |
| 2 | 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. | 4654.120 | m3 |
| a | Extra rate for conveying the excavated stuff by motor - truck a) Lead upto 2.50 km beyond 2.00 km. | 8139.990 | m3 |
| 3 | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. | 1590.790 | m3 |
| 4 | 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). | 1295.340 | m3 |

| Item No. | Item Description | Qty | Unit |
|----------|--|------------|------|
| 5 | 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 the cost of pumping of concrete to site of laying , centering, shuttering, finishing and excluding the cost of 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 floor V level for Raft, Plinth Beam, Column, Sill, Lintel, Chajja, Slab | 5774.980 | m3 |
| 6 | Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete . (A) Thermo-Mechanically Treated bars of grade Fe- 500D or more. (I) All works upto floor V level | 825357.000 | KG |
| 7 | 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) | 106.000 | m3 |
| 8 | 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) | 108.000 | m3 |
| 9 | 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 | 0.850 | m3 |
| 10 | 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) 50 mm thick including ISI marked Stainless Steel butt hinges with necessary screws | 17.730 | m2 |
| 11 | Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : a) 125x85x5.5 mm (heavy type) | 24.000 | each |

| Item No. | Item Description | Qty | Unit |
|----------|---|--------|------|
| 12 | 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. | 5.000 | each |
| 13 | 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 : | 8.000 | each |
| 14 | 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 |
| 15 | 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 |
| 16 | Providing and fixing bright finished brass handles with screws etc.complete: A) 125 mm | 16.000 | each |
| 17 | Providing and fixing Brass door latch 250x16x5 mm (0.350 kg) | 9.000 | each |
| 18 | Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete | 5.000 | each |

| Item No. | Item Description | Qty | Unit |
|----------|---|--------|------|
| 19 | <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 bead of appropriate dimension. (Area of window upto 1.75 sqm)</p> | 43.000 | m2 |
| 20 | <p>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): a) With float glass panes of 5.50 mm thickness</p> | 11.000 | m2 |

| Item No. | Item Description | Qty | Unit |
|----------|--|--------|------|
| 21 | <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 |
| 22a | <p>Providing and fixing to existing door frames. a) 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 ($\pm 0.2\text{ mm}$) 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 ($\pm 0.1\text{ mm}$) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ($\pm 0.2\text{ mm}$) 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 ($\pm 0.1\text{ mm}$) 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 |
|----------|--|--------|------|
| 23 | <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 5 percent tolerance in dimension i.e. in depth & width of profile shall be acceptable. (A) 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.)</p> | 4.000 | m2 |
| B | <p>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).</p> | 32.000 | m2 |

| Item No. | Item Description | Qty | Unit |
|----------|---|----------|------|
| 24 | <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. 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> | 123.000 | kg |
| 25 | <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-charge (a) Pre-laminated particle board with decorative lamination on both sides</p> | 11.000 | m2 |
| 26 | <p>Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.</p> | 2691.000 | kg |
| 27 | <p>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 0.3 percent 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</p> | 80.000 | m2 |

| Item No. | Item Description | Qty | Unit |
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| 28 | Plastering with cement mortar 1 : 4 including racking out joints, scrubbing & cleaning, finishing smooth curing including racking out joints etc. complete. (a) for plastering upto floor two level. 12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand) | 22849.720 | m2 |
| 29 | 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 | 132.000 | m2 |
| 30 | 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. | 2.000 | EACH |
| 31 | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08 percent 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 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. | 323.000 | M2 |
| 32 | 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 | 40.000 | M2 |

| Item No. | Item Description | Qty | Unit |
|----------|---|----------|------|
| 33 | Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08 percent 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. (a) Size of Tile 600 x 600 mm | 1437.900 | M2 |
| 34 | 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. | 32.900 | M2 |
| 35 | 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. | 67.800 | M2 |
| 36 | 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) 20 mm thick | 18.300 | M2 |

| Item No. | Item Description | Qty | Unit |
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| 37 | 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 | 460.900 | m2 |
| 38 | 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 | 15.000 | each |
| 39 | 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 | 6.000 | each |
| 40 | 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 |
| 41 | Providing and fixing brass bib cock of approved quality : a) 15 mm nominal bore | 22.000 | each |
| 42 | Providing and fixing C.P .Brass Stop cock. a) 15 mm dia. - weight 0.40 kg | 11.000 | each |
| 43 | 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 | 2.000 | each |
| 44 | Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively. | 6.000 | each |

| Item No. | Item Description | Qty | Unit |
|----------|---|--------|------|
| 45 | 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 | 90.000 | mtr |
| b | 20 mm nominal outer dia Pipes | 60.000 | mtr |
| c | 25 mm nominal outer dia Pipes | 40.000 | mtr |
| 46 | 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 | 40.000 | mtr |
| 47 | 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 | 40.000 | mtr |
| 48 | 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 | 16.000 | each |
| 49 | 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 |
|----------|--|----------|------|
| 50 | 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 | 7.000 | each |
| 51 | Providing, laying & jointing PVC pipes of required working pressure as per I.S.I. 4985 including cutting and jointing the pipe ends as per manufacturer's instructions 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. | 37.000 | Mtr |
| b | 110 mm dia. (OD) | 80.000 | Mtr |
| 52 | 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. | 8000.000 | ltr |
| 53 | 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. | 19.000 | each |
| 54 | 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. | 1.000 | each |

| Item No. | Item Description | Qty | Unit |
|----------|---|----------|------|
| 55 | Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. A) With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre | 763.000 | M2 |
| 56 | 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. | 763.000 | m2 |
| 57 | Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : a) Two or more coats on new work | 763.000 | m2 |
| 58 | Finishing walls with water proofing cement paint of required shade : a) New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm | 2142.000 | M2 |
| 59 | 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 |
| 60 | 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 existing primer) of approved brand and manufacture | 142.000 | M2 |
| 61 | 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 | 15.000 | m2 |

| Item No. | Item Description | Qty | Unit |
|----------|---|-----------|------|
| 62 | <p>Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - I of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours).Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge. a) Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm</p> | 64.000 | each |
| 63 | <p>Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : a) Water thinnable cement primer</p> | 21649.360 | m2 |
| 64 | <p>Wall painting with Floor paint / acrylic emulsion paint of approved brand and manufacture to give an even shade : a) Two or more coats on new work</p> | 21649.360 | m2 |
| 65 | <p>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. complete : a) 300 mm dia. R.C.C. pipe including excavation as directed and sypplying and filling sand at bottom of 10 cm thickness</p> | 360.000 | mtr |

| Item No. | Item Description | Qty | Unit |
|----------|---|-----------|------|
| 66 | Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate epoxy priming coat, preparation of surface, etc. complete. | 19762.500 | kg |
| 67 | <p>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 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 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.</p> | 4162.000 | mtr |

| Item No. | Item Description | Qty | Unit |
|----------|--|------------|------|
| 68 | 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 100mm 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. | 21552.000 | m2 |
| 69 | Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. | 1181.790 | m3 |
| 70 | 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) | 1711.270 | m3 |
| 71 | 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. | 218931.600 | m3 |

| Item No. | Item Description | Qty | Unit |
|----------|--|------------|------|
| 72 | 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. | 175145.280 | m3 |
| 73 | 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 | 107445.660 | m3 |
| 74 | 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. | 63153.400 | m3 |
| 75 | 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 medium setting bitumen emulsion i) On W.B.M / W.M.M. @ 0.75 kg/sqm | 193256.400 | m2 |
| B | With rapid setting bitumen emulsion i) On bituminous surface @ 0.25kg/sqm | 78168.000 | m2 |

| Item No. | Item Description | Qty | Unit |
|----------|---|-----------|------|
| 76 | 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 @ 5 percent (percentage by weight of total mix) and lime filler @ 2 percent (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60 90 TPH capacity. | 43910.340 | MT |
| 77 | 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-40 @ 6.00 percent (percentage by weight of total mix) and lime filler @ 3 percent (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity. | 18946.000 | M T |
| 78 | 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. | 1815.980 | m2 |

| Item No. | Item Description | Qty | Unit |
|----------|--|----------|------|
| 79 | 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). | 34.560 | m2 |
| 80 | 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. | 2073.600 | kg |
| 81 | 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. | 103.680 | m2 |
| 82 | 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 | 103.680 | m2 |
| 83 | 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) degress 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. | 5859.000 | each |
| 84 | 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. | 228.000 | m3 |

Notes

| Subwork Name | Description | Period of Completion | Scope of Subwork |
|----------------|---------------|----------------------|------------------|
| BOQ Civil Work | As per Tender | 18.0 | As per Tender |

| Subwork Name | Description | Period of Completion | Scope of Subwork |
|------------------------------|---------------|----------------------|------------------|
| BOQ Civil work item 45 to 84 | As per tender | 18.0 | As per Tender |

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