

COCHIN PORT TRUST

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Tender No: T10/T-1942/2021-C

Name of Work : ADDITIONAL WORKS AT THE JETTY, BUILDINGS & LAND AREAS OF GOI AT COCHIN PORT
SCHEDULE - "II"- 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
1.Pump House at Main Jetty							
(a1) Covering of Terrace Floor of Pump House							
1	Providing precast cement concrete solid block masonry with 1:2:4 (1cement : 2 sand : 4 graded stone aggregate 20mm nominal size) with factory made cement concrete blocks of size 300x200x150mm / 300x100x150 in cement mortar 1:3 (1 cement: 3 sand) for superstructure (For 20cm / 15cm/ 10cm thick walls) including scaffolding,raking out and grooving of joints, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ³	4.00	19,354.00	Rupees Nineteen Thousand Three Hundred Fifty Four Only	77,416.00	Rupees Seventy Seven Thousand Four Hundred Sixteen Only
2	Providing 12 mm thick plastering with cement mortar 1:4 (1cement : 4sand) for inside and outside walls, trowelled hard including scaffolding, curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	21.00	362.70	Rupees Three Hundred Sixty Two and Seventy Paise Only	7,616.70	Rupees Seven Thousand Six Hundred Sixteen and Seventy Paise Only
3	Supplying, fabricating and fixing in position Mild Steel (MS) Runners using RHS 66mm x33mm and 4.5mm tk. riveted, bolted or welded in the existing MS posts/ walls, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge	Kg	627.00	195.00	Rupees One Hundred Ninety Five Only	1,22,265.00	Rupees One Lakh Twenty Two Thousand Two Hundred Sixty Five Only
4	Painting MS Runners with two or more coats of synthetic enamel paint of approved brand, colour and manufacture to give an even shade etc. complete as per detailed	m ²	28.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only.	4,625.60	Rupees Four Thousand Six Hundred Twenty Five and Sixty Paise Only.
5	Providing and laying Granite slab 18mm thick or nearest available size (Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent) in required design and patterns over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with epoxy based joint sealing material of	m ²	12.00	5,446.60	Rupees Five Thousand Four Hundred Forty Six and Sixty Paise Only	65,359.20	Rupees Sixty Five Thousand Three Hundred Fifty Nine and Twenty Paise Only
6	Providing edge moulding to 18mm thick granite slab including polishing edge to give high gloss finish etc. complete as per detailed specifications and directions of Engineer-in-Charge	m	40.00	511.30	Rupees Five Hundred Eleven and Thirty Paise Only	20,452.00	Rupees Twenty Thousand Four Hundred Fifty Two Only
7	Providing and applying premium quality 100% acrylic emulsion exterior finish paint (Weather coat by Berger or Nerolac Excel or Weather shield by ICI Dulux or Snowcrylic XT-premium by Snowcem India Ltd.) in two coats over one coat of primer for walls to give a smooth and even shade including scaffolding, topping of all holes and depressions, applying putty for the entire surface, cleaning with sand paper etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	135.00	174.80	Rupees One Hundred Seventy Four and Eighty Paise Only	23,598.00	Rupees Twenty Three Thousand Five Hundred Ninety Eight Only
(a2) Providing UPVC Sliding type windows)							
8	Providing and fixing factory made uPVC two track sliding and fixed window comprising of uPVC multi-chambered (big series) frame 67 x 50 mm & sash 46 x 62 mm both	m ²	48.00	9,393.90	Rupees Nine Thousand Three Hundred Ninety Three	4,50,907.20	Rupees Four Lakh Fifty Thousand Nine Hundred Seven and Twenty Paise Only
9	Providing and fixing factory made uPVC fixed window, comprising of uPVC multi-chambered (big series) frame 67 x 60 mm and mullion (where ever required) 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm 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, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc.using uPVC extrusions of " FENESTA" make or its equivalent approved.Glazing shall be of 5 mm thick glass louvers. 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	m ²	18.00	8,804.90	Rupees Eight Thousand Eight Hundred Four and Ninety Paise Only	1,58,488.20	Rupees One Lakh Fifty Eight Thousand Four Hundred Eighty Eight and Twenty Paise Only
(a3) Providing False Ceiling							

10	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS:8225:1987, light reflectance of 85% (minimum), non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity <0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.3mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall /	m ²	118.00	2,295.20	Rupees Two Thousand Two Hundred Ninety Five and Twenty Paise Only	2,70,833.60	Rupees Two Lakh Seventy Thousand Eight Hundred Thirty Three and Sixty Paise Only
	(b1) Providing Fresh water supply (connection from main tank to small loft tank)						-
11	Supplying, fabricating and erecting in position Structural steel work riveted, bolted or welded in truss work for supporting readymade PVC water tank with RHS 50x25mm / other RHS & SHS sizes, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge.	kg	129.00	195.00	Rupees One Hundred Ninety Five Only	25,155.00	Rupees Twenty Five Thousand One Hundred Fifty Five Only
12	Painting the steel structural work with two or more coats of synthetic enamel paint of approved brand, colour and manufacture to give an even shade etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	6.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	991.20	Rupees Nine Hundred Ninety One and Twenty Paise Only
13	Providing and placing polyethylene rectangular water storage tank, (300 lit. capacity IS : 12701 marked) with food grade plastic on the fabricated supports with cover and suitable locking arrangement including making necessary holes for inlet, outlet, and overflow pipes etc. complete but without fittings as per detailed specifications and directions of Engineer-in-charge.	Lit	300.00	12.00	Rupees Twelve Only	3,600.00	Rupees Three Thousand Six Hundred Only
14	Providing and placing polyethylene water storage tank, (1000 lit. capacity IS : 12701 marked) with food grade plastic on floor, with cover and suitable locking arrangement including making necessary holes for inlet, outlet and overflow pipes etc. complete but without fittings as per detailed specifications and directions of Engineer-in-charge.	Lit	1,000.00	12.00	Rupees Twelve Only	12,000.00	Rupees Twelve Thousand Only
15	Providing & fixing of centrifugal pump of 0.5 HP with 63mm nominal dia/ nearest available size suit at site CPVC delivery pipe with wafer type non return valve with necessary flanges, nuts, bolts, rubber insertions (Piping and valves will be measured and paid under respective items of works) etc. complete as per directions of Engineer-in-charge.	Each	1.00	7,100.00	Rupees Seven Thousand One Hundred Only	7,100.00	Rupees Seven Thousand One Hundred Only
16	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having 40mm nominal dia. & thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, trenching & refilling (if required), testing of joints, labour etc. complete as per detailed specifications and directions of Engineer in Charge.	m	72.00	729.50	Rupees Seven Hundred Twenty Nine and Fifty Paise Only	52,524.00	Rupees Fifty Two Thousand Five Hundred Twenty Four Only
17	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having 25mm nominal dia. & thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, trenching & refilling (if required), testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	5.00	443.90	Rupees Four Hundred Forty Three and Ninety Paise Only	2,219.50	Rupees Two Thousand Two Hundred Nineteen and Fifty Paise Only
18	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having 20mm nominal dia. & thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	80.00	344.80	Rupees Three Hundred Forty Four and Eighty Paise Only	27,584.00	Rupees Twenty Seven Thousand Five Hundred Eighty Four Only
19	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having 15mm nominal dia. & thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, trenching & refilling (if required), testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	10.00	275.70	Rupees Two Hundred Seventy Five and Seventy Paise Only	2,757.00	Rupees Two Thousand Seven Hundred Fifty Seven Only
20	Providing and fixing Automatic water level controller with fully automising the pumping operations between underground and overhead water tanks including built-in dry run and single protection for pumps, auto/ manual and pump1/ pump2 operation at the flip of a switch for emergency, low level & safe limit indications for UG & OH tanks, adjustable dry run timing to suit any motor capacity, audio alarm for dry run, push button/ switch to silence alarm, display of water levels, pump trip indications as per the directions of Engineer-in-charge.	Each	1.00	5,750.00	Rupees Five Thousand Seven Hundred Fifty Only	5,750.00	Rupees Five Thousand Seven Hundred Fifty Only
	(b2) Providing WHB and water connection						-
21	Supplying and fixing White Vitreous wash basin 630 x 450 x160 mm size of Pastel brand (No.91037) of "Hindware" or equivalent approved make of "Kohler/Jaquar" with galvanised iron rag bolts with 15mm CP brass pillar Tap including cutting and making good walls etc. complete as per detailed specifications and directions of Engineer-in-Charge.	Each	1.00	3,739.10	Rupees Three Thousand Seven Hundred Thirty Nine and Ten Paise Only	3,739.10	Rupees Three Thousand Seven Hundred Thirty Nine and Ten Paise Only
22	Providing and fixing PTMT towel rail 450 mm long with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms complete with approved make of "Hindware / Kohle/Jaquar" brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour etc complete as per detailed specifications and directions of Engineer in charge.	Each	1.00	754.70	Rupees Seven Hundred Fifty Four and Seventy Paise Only	754.70	Rupees Seven Hundred Fifty Four and Seventy Paise Only
23	Providing and fixing approved make double arm wall mounted reversible plain/magnifying (3X) Pivotal mirror of size 600mm x 450mm 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 including all SS fittings etc complete as per the directions of Engineer-in-Charge.	Each	1.00	1,743.70	Rupees One Thousand Seven Hundred Forty Three and Seventy Paise Only	1,743.70	Rupees One Thousand Seven Hundred Forty Three and Seventy Paise Only

24	Providing and laying dadoing for walls with 600x600mm Vitrified tiles of approved shade, make of Johnson or Khajaria or Asian or Somany or Orient Bell with water absorption less than 0.08 % and conforming to IS:15622, including providing mortar bed in cement mortar 1:3, 12mm thick, fixing the tiles with cement slurry @ 3.3 kg/ sq m, grouting and finishing the joints with tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge.(The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m ²	1.00	2,100.90	Rupees Two Thousand One Hundred and Ninety Paise Only	2,100.90	Rupees Two Thousand One Hundred and Ninety Paise Only
(b3) Providing Entry door and Venetian blinds							
25	Providing and fixing factory made uPVC openable single/double leaf glazed door comprising of uPVC multi-chambered frame 67 x 64mm, sash 67 x 110mm and mullion(where ever required) with wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimensions having 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, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. using uPVC extrusions of " FENESTA" make or its equivalent approved with height max. upto 2300 mm. Glazing shall be of 8 mm toughened clear glass. 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-	m ²	2.10	12,410.00	Rupees Twelve Thousand Four Hundred Ten Only	26,061.00	Rupees Twenty Six Thousand Sixty One Only
26	Supplying and fixing of vertical Venetian blinds 100 mm wide to windows of Vista / Max make with all accessories including fixing etc., The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete as per detailed specifications and directions of Engineer-in-Charge.	m ²	50.00	2,000.00	Rupees Two Thousand Only	1,00,000.00	Rupees One Lakh Only
2. Modifications and Special repairs to Drishti Building near CFS							
(a) Repairs to supporting columns and beams							
27	Chipping & removing damaged concrete layer, De-bonded concrete, cracked portion, loose concrete etc. of RCC structural members to a minimum depth of 10mm to 15mm behind the existing corroded / damaged reinforcement bars using chisel & hammer/ concrete breaker machine in low vibration mode and surface preparation of concrete are using wire brush, scrapper and finally using water washing to completely remove the dust, debris, unwanted particles etc. as per detailed specifications & directions of Engineer-in-charge.	m ²	100.00	100.00	Rupees One Hundred Only	10,000.00	Rupees Ten Thousand Only
28	Cleaning of reinforcement of RCC structural members from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of rebaklens rr or any approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry as per detailed specifications & directions of Engineer-in-charge	m	300.00	100.00	Rupees One Hundred Only	30,000.00	Rupees Thirty Thousand Only
29	Providing and inserting 12 mm dia galvanized steel injection nipple in honey comb area of RCC structural members and along crack line including drilling of holes of required diameter (20mm to 30 mm) up to depth from 30 mm to 80 mm or half the thickness of member (whichever is less), at required spacing but not exceeding the thickness of member or 300 mm. making grooves of size 12mm x 12mm along the crack line and making the crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical nito mortar pe or any approved make and allow it to cure as per detailed specifications & directions of Engineer-in-charge	Nos.	50.00	150.00	Rupees One Hundred Fifty Only	7,500.00	Rupees Seven Thousand Five Hundred Only
30	Providing and injecting low viscosity epoxy grout conbextra ep10 or any approved make in fixed nipples already inserted as per item above as per detailed specifications & directions of Engineer-in-charge	Kg	25.00	1,500.00	Rupees One Thousand Five Hundred Only	37,500.00	Rupees Thirty Seven Thousand Five Hundred Only
31	Introducing new bars of 20/16/12mm dia for structural connections as main reinforcement to the required length with proper development length, tying the new bars to the prefixed shear connectors or with the main bars of the damaged structural elements including anchoring/welding, bending, placing etc, including the cost of steel reinforcement so that so that the additional rebar acts monolithic with the existing ones and core concrete as per detailed specifications & directions of Engineer-in-charge	Kg	300.00	80.00	Rupees Eighty Only	24,000.00	Rupees Twenty Four Thousand Only
32	Applying alkaline passivating and epoxy bonding coat of nitozinc primer or any approved make over the exposed rebars all around in two coats and allowed to fully dry as per detailed specifications & directions of Engineer-in-charge.	m ²	100.00	100.00	Rupees One Hundred Only	10,000.00	Rupees Ten Thousand Only
33	Supplying, mixing and applying epoxy bonding agent nitobond ep or any approved make on chipped portion of RCC structural members, make and allow it to cure as per detailed specifications & directions of Engineer-in-charge	m ²	100.00	60.00	Rupees Sixty Only	6,000.00	Rupees Six Thousand Only
34	Providing and fixing slurry tight formwork/ shuttering without deformation and leak due to pressure on laying micro concrete and provision shall be made for a suitable feed hopper for pouring concrete. The formwork / shuttering shall be coated with mould release agent prior to final fixing in position of formwork and also proper supporting arrangements to be made for keeping the shuttering in correct line and length as per the drawings, detailed specifications & directions of Engineer-in-charge	m ²	100.00	200.00	Rupees Two Hundred Only	20,000.00	Rupees Twenty Thousand Only
35	Providing and applying of average 30mm thickness of plastic shrinkage compensated micro concrete renderoc rig or any approve make which shall be cement based pre-packed single component, chloride free, non shrink, free flow, self compacting ready to use after mixing water in specified proportion as indicated by the manufacturer. Microconcrete shall be mixed with 12mm down graded chips on site at 75% weight of powder ration as per detailed specifications & directions of Engineer-in-charge	m ³	4.00	58,000.00	Rupees Fifty Eight Thousand Only	2,32,000.00	Rupees Two Lakh Thirty Two Thousand Only
36	Supplying & Spraying water curing compound as per manufacturers instructions to RCC structural members and as per detailed specifications and directions of the Engineer-in-Charge.	m ³	100.00	45.00	Rupees Forty Five Only	4,500.00	Rupees Four Thousand Five Hundred Only
(c) Repairs to prevent Water seepage on all floors							

37	Providing and laying 20 mm thick plastering in cement mortar 1:3 (1 cement: 3 sand) mixed with approved water proofing compound in proportion as recommended by the manufacturers over sunshade/ wall, trowelled hard including initial surface preparation and finishing with cement slurry, curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	36.00	626.10	Rupees Six Hundred Twenty Six and Ten Paise Only	22,539.60	Rupees Twenty Two Thousand Five Hundred Thirty Nine and Sixty Paise Only
(d) Providing Roof protection							
(d1) Replacement of Old CGI sheet of Terrace roof with Prepainted Galvalume roofing sheets							
38	Dismantling old cement plaster/ concrete from the terrace cement floor and cleaning the surface with wire brush and watering for laying new plastering including disposal of rubbish to the dumping ground within 50 metres lead as per detailed specifications and directions of the Engineer-in-Charge.	m ²	217.00	53.00	Rupees Fifty Three Only	11,501.00	Rupees Eleven Thousand Five Hundred One Only
39	Dismantling of damaged Rain water down pipes fixed on the building including transporting & disposing off all debris within a distance of 6km as per directions of the Engineer-in-charge. Usable materials, if any, after dismantling shall be handed over to the Department (Nearest Civil Maintenance Section).	m	156.00	75.60	Rupees Seventy Five and Sixty Paise Only	11,793.60	Rupees Eleven Thousand Seven Hundred Ninety Three and Sixty Paise Only
40	Dismantling of existing GI sheet roofing & eaves gutter of roof with out damage to roof truss including transporting & disposing off all debris within a distance of 6km as per directions of the Engineer-in-charge. Usable materials, if any, after dismantling shall be handed over to the Department (Nearest Civil Maintenance Section).	m ²	340.00	165.70	Rupees One Hundred Sixty Five and Seventy Paise Only	56,338.00	Rupees Fifty Six Thousand Three Hundred Thirty Eight Only
41	Dismantling existing brick masonry in cement mortar of side walls of water tank/ parapet without causing damages to the existing walls including transporting & disposing off all debris within a distance of 6km as per directions of the Engineer-in-charge. Usable materials, if any, after dismantling shall be handed over to the Department (Nearest Civil Maintenance Section).	m ³	1.00	1,997.70	Rupees One Thousand Nine Hundred Ninety Seven and Seventy Paise Only	1,997.70	Rupees One Thousand Nine Hundred Ninety Seven and Seventy Paise Only
42	Dismantling of existing wooden door with out causing damages to the existing walls including transporting & disposing off all debris within a distance of 6km as per directions of the Engineer-in-charge. Usable materials, if any, after dismantling shall be handed over to the Department (Nearest Civil Maintenance Section).	Each	1.00	373.10	Rupees Three Hundred Seventy Three and Ten Paise Only	373.10	Rupees Three Hundred Seventy Three and Ten Paise Only
43	Providing and laying cement concrete in 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) as levelling course over terrace/ parapet including the cost of all formwork/ shuttering, materials, labours, compacting etc. complete as per drawings, detailed specifications and directions of Engineer-in - Charge	m ³	3.00	10,627.50	Rupees Ten Thousand Six Hundred Twenty Seven and Fifty Paise Only	31,882.50	Rupees Thirty One Thousand Eight Hundred Eighty Two and Fifty Paise Only
44	Supplying, fabricating and erecting in position Structural steel work with built up tubular (round, square or rectangular hollow tubes etc.) sections riveted, bolted or welded in truss work (RHS 66 x 33 x 4.5mm or other size runners) to the bottom of truss for holding the UPVC windows, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge.	kg	265.00	195.00	Rupees One Hundred Ninety Five Only	51,675.00	Rupees Fifty One Thousand Six Hundred Seventy Five Only
45	Painting MS runners with synthetic enamel paint in two or more coats of approved brand, colour and manufacture to give an even shade etc. complete as per detailed specifications and directions of the Engineer-in-Charge	m ²	12.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	1,982.40	Rupees One Thousand Nine Hundred Eighty Two and Forty Paise Only
46	Painting the existing steel columns/ stanchions & truss with synthetic enamel paint in two or more coats of approved brand, colour and manufacture to give an even shade after scrapping, sand papering, cleaning the surface etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	70.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	11,564.00	Rupees Eleven Thousand Five Hundred Sixty Four Only
47	Providing precast cement concrete solid block masonry for walls of 20 / 15 /10cm thick with 1:2:4 (1 cement: 2 coarse: 4 graded stone aggregate 20mm nominal size) with factory made cement concrete blocks of size 300x200x150mm and 300x100x150 in cement mortar 1:3 (1 cement: 3 sand) including scaffolding, raking out and grooving of joints, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ³	2.00	19,354.20	Rupees Nineteen Thousand Three Hundred Fifty Four and Twenty Paise Only	38,708.40	Rupees Thirty Eight Thousand Seven Hundred Eight and Forty Paise Only
48	Providing 12 mm thick plastering with cement mortar 1:4 (1 cement : 4sand) for walls, trowelled hard including scaffolding, curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	94.00	362.70	Rupees Three Hundred Sixty Two and Seventy Paise Only	34,093.80	Rupees Thirty Four Thousand Ninety Three and Eighty Paise Only
49	Providing and fixing Sandwich PUF roofing sheets with 0.50mm thick Aluminium roofing sheet in top, 0.30mm Galvanum sheet in bottom and minimum 30mm PUF insulation in between sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) with zinc coating 120 grams per sqm as per IS:277, protective guard film of 25 microns minimum to avoid scratches during transportation, in single length upto 12 meter fixing to purlins with self drilling SS screws or 8mm dia SS J-hooks to suit to fix the solar panels above the roofing with EPDM seal etc. complete as per the drawing, detailed specifications and directions of Engineer-in-charge.	m ²	382.00	2,805.00	Rupees Two Thousand Eight Hundred Five Only	10,71,510.00	Rupees Ten Lakh Seventy One Thousand Five Hundred Ten Only
50	Providing and fixing 110mm OD Class-II (4kg/cm ²) PVC down pipes of approved make for rain water harvesting with necessary brackets, including all necessary fittings and specials like door bends and tees, jointing, testing of joints, cutting masonry or concrete, floor slabs etc. and making good the same wherever necessary connecting the pipes to the tank, materials, labour etc complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	m	159.00	414.60	Rupees Four Hundred Fourteen and Sixty Paise Only	65,921.40	Rupees Sixty Five Thousand Nine Hundred Twenty One and Forty Paise Only
51	Providing & fixing 150 x 100mm size type PVC Eaves Gutter of approved make for collecting roof water with necessary SS brackets with all necessary fittings and jointing of gutter in line, level and water tight including all materials, scaffolding, labour etc complete as per drawings, detailed specifications and directions of Engineer-in-charge.	m	68.00	797.50		54,230.00	
52	Providing and fixing pre-coated galvanised steel sheet roofing accessories of Ridges plain (500-600mm wide) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sq m 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 or 8mm dia J hooks to suit to fix the solar panels above the roofing with EPDM seal etc. complete, as per the drawings and directions of Engineer-in-Charge.	m	47.00	817.65		38,429.55	

53	Providing and applying premium quality 100% acrylic emulsion exterior finish paint (Weather coat by Berger or Nerolac Excel or Weather shield by ICI Dulux or Snowcryl XT-premium by Snowcem India Ltd.) in two coats over one coat of primer for walls to give a smooth and even shade including scaffolding, topping of all holes and depressions, applying putty for the entire surface, cleaning with sand paper etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	1,050.00	174.80	Rupees One Hundred Seventy Four and Eighty Paise Only	1,83,540.00	Rupees One Lakh Eighty Three Thousand Five Hundred Forty Only
54	Providing and fixing ACP cladding system in position with solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight over the fabricated Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing ACP panel system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. as per drawings, detailed specifications and directions of the Engineer-in-Charge. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified.	m ²	174.00	4,008.20	Rupees Four Thousand Eight and Twenty Paise Only	6,97,426.80	Rupees Six Lakh Ninety Seven Thousand Four Hundred Twenty Six and Eighty Paise Only
55	Providing and fixing of 40 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1 cement : 3 coarse sand) as per drawings, detailed specifications and directions of the Engineer-in-Charge	m	65.00	893.00	Rupees Eight Hundred Ninety Three Only	58,045.00	Rupees Fifty Eight Thousand Forty Five Only
(d2) Providing and fixing UPVC windows and ventilators							
56	Providing and fixing factory made uPVC openable single/double leaf glazed door comprising of uPVC multi-chambered frame 67 x 64mm, sash 67 x 110mm and mullion (where ever required) with wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimensions having 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, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. using uPVC extrusions of " FENESTA" make or its equivalent approved with height max. upto 2300 mm. Glazing shall be of 8 mm toughened clear glass. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over hanger rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-	m ²	4.00	12,409.90	Rupees Twelve Thousand Four Hundred Nine and Ninety Paise Only	49,639.60	Rupees Forty Nine Thousand Six Hundred Thirty Nine and Sixty Paise Only
57	Providing and fixing factory made uPVC two track sliding and fixed window comprising of uPVC multi-chambered frame (big series) 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and double glazing bead of appropriate dimension 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, uPVC extruded interlocks and uPVC extruded inline sash adaptor (if required), double glazed with (6 + 12 + 6) mm hermetically sealed toughened glass using uPVC extrusions of " FENESTA" make or its equivalent approved including EPDM gaskets, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, anchor fasteners, including sill bottom drainage and rain track complete finishing etc. After	m ²	65.00	9,393.90	Rupees Nine Thousand Three Hundred Ninety Three and Ninety Paise Only	6,10,603.50	Rupees Six Lakh Ten Thousand Six Hundred Three and Fifty Paise Only
(d3) Providing Calcium Silicate false ceiling							
58	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS:8225:1987, light reflectance of 85% (minimum), non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 & 7), humidity resistance of 100%, thermal conductivity <0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 24x38 mm of length 3000 mm, cross-T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall /	m ²	255.00	2,295.10	Rupees Two Thousand Two Hundred Ninety Five and Ten Paise Only	5,85,250.50	Rupees Five Lakh Eighty Five Thousand Two Hundred Fifty and Fifty Paise Only
(d4) Fitment of Non skid tiles							
59	Providing and laying vitrified floor tiles of size 600x600 mm or nearest available size of approved shade, make of Johnson or Khajaria or Asian or Somany or Orient Bell with water absorption less than 0.08 % and conforming to IS:15622 with true and square edges including providing mortar bed in cement mortar 1:4, 20mm thick, fixing the tiles with cement slurry @ 3.3 kg/ sq m, grouting and finishing the joints with tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge.(The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m ²	217.00	2,039.30	Rupees Two Thousand Thirty Nine and Thirty Paise Only	4,42,528.10	Rupees Four Lakh Forty Two Thousand Five Hundred Twenty Eight and Ten Paise Only
60	Providing and laying dadoing for walls with 600x600mm Vitrified tiles of approved shade, make of Johnson or Khajaria or Asian or Somany or Orient Bell with water absorption less than 0.08 % and conforming to IS:15622, including providing mortar bed in cement mortar 1:3, 12mm thick, fixing the tiles with cement slurry @ 3.3 kg/ sq m, grouting and finishing the joints with tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge.(The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m ²	11.00	2,100.90	Rupees Two Thousand One Hundred and Ninety Paise Only	23,109.90	Rupees Twenty Three Thousand One Hundred Nine and Ninety Paise Only
3. Electronic Toilets & Store at various places of Gol							

	(a) At Jetty area (One each toilet for Gents and Ladies)								
61	Supply, installation, testing & commissioning of bio-digester enabled modular, unmanned and automated environment friendly pre-fabricated electronic public toilets made of stainless steel grade 304. The super structure of the electronic toilet to have aesthetic ambience with inner room size not less than 1.2m x 0.8m x 2.1m (LxWxH). Size of Electronic Toilet- Overall size not more than - 2.5m x1. 5m x 3.0m (L x W x H) Total area not more than 4 Sq. m. The toilet shall have access controlled main door and side walls made of stainless steel grade 304. Toilet floor and closet are to be stainless steel grade 304. The toilet shall have built-in water tank with minimum 500 litre capacity. Access control using coin validator for entering the unit based on automatic payment collection mechanism. Exit from the unit should be manual. Toilets shall have automatic lights inside the unit, which glows on opening the door. Automatic flushing system which includes (a) Automatic Pre-flush cleaning before use +(b) Automatic closet washing mechanism after use and (c) Automatic Platform cleaning mechanism programmed after specific number of users. In addition to this, flush switch is to be provided for manual operation. Features shall include health faucet, exhaust fan and								
	(i) Pre-fabricated electronic toilet	Each	2.00	6,20,000.00	Rupees Six Lakh Twenty Thousand Only	12,40,000.00	Rupees Twelve Lakh Forty Thousand Only		
	(ii) 2 cu. m capacity FRP Bio - digesters working on DRDO's anaerobic treatment system	Each	1.00	1,02,898.00	Rupees One Lakh Two Thousand Eight Hundred Ninety Eight Only	1,02,898.00	Rupees One Lakh Two Thousand Eight Hundred Ninety Eight Only		
	(b) One each Toilet Block at land plots near KV Port Trust and Vathuruthy railway gate								
62	Supply, installation, testing & commissioning of bio-digester enabled modular, unmanned and automated environment friendly pre-fabricated electronic public toilets made of stainless steel grade 304. The super structure of the electronic toilet to have aesthetic ambience with inner room size not less than 1.2m x 0.8m x 2.1m (LxWxH). Size of Electronic Toilet- Overall size not more than - 2.5m x1. 5m x 3.0m (L x W x H) Total area not more than 4 Sq. m. The toilet shall have access controlled main door and side walls made of stainless steel grade 304. Toilet floor and closet are to be stainless steel grade 304. The toilet shall have built-in water tank with minimum 500 litre capacity. Access control using coin validator for entering the unit based on automatic payment collection mechanism. Exit from the unit should be manual. Toilets shall have automatic lights inside the unit, which glows on opening the door. Automatic flushing system which includes (a) Automatic Pre-flush cleaning before use +(b) Automatic closet washing mechanism after use and (c) Automatic Platform cleaning mechanism programmed after specific number of users. In addition to this, flush switch is to be provided for manual operation. Features shall include health faucet, exhaust fan and								
	(i) Pre-fabricated electronic toilet	Each	2.00	6,20,000.00	Rupees Six Lakh Twenty Thousand Only	12,40,000.00	Rupees Twelve Lakh Forty Thousand Only		
	(ii) 2 cu. m capacity FRP Bio - digesters working on DRDO's anaerobic treatment system	Each	2.00	1,02,898.00	Rupees One Lakh Two Thousand Eight Hundred Ninety Eight Only	2,05,796.00	Rupees Two Lakh Five Thousand Seven Hundred Ninety Six Only		
65	Providing and laying Plain cement concrete of M20 grade (1:1.5:3) with 20 mm aggregates for platform to line and level, properly mixed and consolidated with and rammers, including side shuttering, spreading, compacting, bailing out water, if required, cost and conveyance of all materials, labour, etc. complete as per drawings, detailed specifications and direction of the Engineer-in-charge.	m ³	2.00	10,438.20	Rupees Ten Thousand Four Hundred Thirty Eight and Twenty Paise Only	20,876.40	Rupees Twenty Thousand Eight Hundred Seventy Six and Forty Paise Only		
66	Providing and laying Reinforced cement concrete of M20 grade for Platform including cost of all materials, labours, centering, shuttering, admixtures, vibrating, curing etc. complete but excluding reinforcement work as per drawings, detailed specification, and direction of Engineer-in-Charge.	m ³	4.00	13,924.70	Rupees Thirteen Thousand Nine Hundred Twenty Four and Seventy Paise Only	55,698.80	Rupees Fifty Five Thousand Six Hundred Ninety Eight and Eighty Paise Only		
67	Providing and fixing reinforcement using TMT/CRS/ ordinary quality HYSD bars of Fe-500/Fe 415 grade for the RCC work for items above including conveying, straightening, cutting, bending and tying in position etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	Kg	400.00	113.50	Rupees One Hundred Thirteen and Fifty Paise Only	45,400.00	Rupees Forty Five Thousand Four Hundred Only		
68	Providing 12 mm thick plastering with cement mortar 1:3 (1cement : 3sand) on RCC surfaces, trowelled hard and finished smooth with cement slurry including cost of all materials, labours, scaffolding, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ²	21.00	626.10	Rupees Six Hundred Twenty Six and Ten Paise Only	13,148.10	Rupees Thirteen Thousand One Hundred Forty Eight and Ten Paise Only		
	Water supply arrangements for E-Toilets								
69	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes 25 mm nominal dia, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	240.00	443.90	Rupees Four Hundred Forty Three and Ninety Paise Only	1,06,536.00	Rupees One Lakh Six Thousand Five Hundred Thirty Six Only		
70	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes 15 mm nominal dia, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	50.00	275.70	Rupees Two Hundred Seventy Five and Seventy Paise Only	13,785.00	Rupees Thirteen Thousand Seven Hundred Eighty Five Only		
71	Providing & fixing of vertical submersible/ centrifugal pump of 0.5 HP with 63mm nominal dia / nearest available size suit at site (Site B & C) CPVC delivery pipe with wafer type non return valve with necessary flanges, nuts, bolts, rubber insertions (Piping and valves will be measured and paid under respective items of works) etc, complete as per detailed specifications and directions of Engineer-in-charge.	Each	2.00	7,100.00	Rupees Seven Thousand One Hundred Only	14,200.00	Rupees Fourteen Thousand Two Hundred Only		
72	Providing and fixing Automatic water level controller with fully automising the pumping operations between underground and overhead water tanks including built in dry run and single protection for pumps, auto/ manual and pump1/ pump2 operation at the flip of a switch for emergency, low level & safe limit indications for UG & OH tanks, adjustable dry run timing to suit any motor capacity, audio alarm for dry run, push button/ switch to silence alarm, display of water levels, pump trip indications as per the directions of Engineer-in-charge.	Each	2.00	5,750.00	Rupees Five Thousand Seven Hundred Fifty Only	11,500.00	Rupees Eleven Thousand Five Hundred Only		
73	Providing and placing on terrace polyethylene rectangular water storage tank, (1000 lit. capacity, 2 Nos.) IS : 12701 marked with food grade plastic, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings as per detailed specifications and directions of Engineer-in-charge.	Lt	2,000.00	12.00	Rupees Twelve Only	24,000.00	Rupees Twenty Four Thousand Only		

74	Providing and fixing superior quality 1" Ball valve (brass) with plastic float for Line and wash out of "LEADER"/ hucdo make or equivalent with BIS certification mark including necessary hardware, High or low pressure, with plastic floats complete as per approved make, drawings, detailed specifications and directions of Engineer-in-charge.	Each	2.00	535.50	Rupees Five Hundred Thirty Five and Fifty Paise Only	1,071.00	Rupees One Thousand Seventy One Only
(C) Construction of Temporary Shed of size 20m x 8m x 4m at land plots near KV Port Trust							
75	Earth work excavation in all kinds of soil by means (Hydraulic excavator) / manual means for foundation, including removal of all obstructions, bailing out water, if required, dressing of sides and ramming of bottoms, backfilling insides and compacting, lift upto 1.5m, including disposing of the excavated soil and surplus excavated soil within a lead of 50m as per drawings, detailed specification and directions of the Engineer-in-charge.	m ³	15.00	247.20	Rupees Two Hundred Forty Seven and Twenty Paise Only	3,708.00	Rupees Three Thousand Seven Hundred Eight Only
76	Providing and laying Plain cement concrete of M10 grade (1:3:6) with 40 mm aggregates below foundation to line and level, properly mixed and consolidated with and rammers, including side shuttering, spreading, compacting, bailing out water, if required, cost and conveyance of all materials, labour, etc. complete as per drawings, detailed specifications and direction of the Engineer-in-charge.	m ³	4.00	8,506.40	Rupees Eight Thousand Five Hundred Six and Forty Paise Only	34,025.60	Rupees Thirty Four Thousand Twenty Five and Sixty Paise Only
77	Providing and laying Reinforced cement concrete of M25 grade for footing using cement content as per approved design mix, excluding reinforcement work and including cost of all materials, labours, centering, shuttering, admixtures, vibrating, curing etc. complete as per drawings, detailed specification, and direction of Engineer-in-Charge.	m ³	3.00	12,896.40		38,689.20	
78	Providing and fixing reinforcement using TMT/CRS/ ordinary quality HYSD bars of Fe 500/Fe 415 grade for the RCC work for items above including conveying, straightening, cutting, bending and tying in position etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	Kg	300.00	113.50	Rupees One Hundred Thirteen and Fifty Paise Only	34,050.00	Rupees Thirty Four Thousand Fifty Only
79	Filling the basement with crusher run screening including compaction with ramming and flooding water etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ³	53.00	3,099.70	Rupees Three Thousand Ninety Nine and Seventy Paise Only	1,64,284.10	Rupees One Lakh Sixty Four Thousand Two Hundred Eighty Four and Ten Paise Only
80	Providing precast cement concrete solid block masonry of 20/15/10 cm thick walls with 1:2:4 (1cement: 2 coarse: 4 graded stone aggregate 20mm nominal size) with factory made cement concrete blocks of size 300x200x150mm and 300x100x150 in cement mortar 1:3 (1 cement: 3 sand) for superstructure including scaffolding, raking out and grooving of joints, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ³	17.00	19,354.20	Rupees Nineteen Thousand Three Hundred Fifty Four and Twenty Paise Only	3,29,021.40	Rupees Three Lakh Twenty Nine Thousand Twenty One and Forty Paise Only
81	Providing and laying Plain cement concrete of M10 grade (1:3:6) with 40 mm aggregates for flooring to line and level, properly mixed and consolidated with and rammers, including side shuttering, spreading, compacting, bailing out water, if required, cost and conveyance of all materials, labour, etc. complete as per drawing, detailed specifications and direction of the Engineer-in-charge.	m ³	19.00	8,325.80	Rupees Eight Thousand Three Hundred Twenty Five and Eighty Paise Only	1,58,190.20	Rupees One Lakh Fifty Eight Thousand One Hundred Ninety and Twenty Paise Only
82	Providing floor plastering 20 mm thick with cement mortar 1:4 (1cement : 4sand) trowelled hard and finished smooth with cement slurry including scaffolding, curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	183.00	496.40	Rupees Four Hundred Ninety Six and Forty Paise Only	90,841.20	Rupees Ninety Thousand Eight Hundred Forty One and Twenty Paise Only
83	Providing 12 mm thick plastering with cement mortar 1:4 (1cement : 3sand) on walls, trowelled hard including scaffolding, curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	198.00	362.70		71,814.60	
84	Supplying, fabricating and erecting in position Structural steel work riveted, bolted or welded in truss work with 100x100x6 posts, and RHS 50x25mm runners, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge	Kg	2,025.00	195.00	Rupees One Hundred Ninety Five Only	3,94,875.00	Rupees Three Lakh Ninety Four Thousand Eight Hundred Seventy Five Only
85	Supplying, fabricating and erecting in position Structural steel work riveted, bolted or welded in truss work with RHS 96x48x4mm rafters/ 66x33x4.5mm struts & purlins including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge	Kg	4,417.00	195.00	Rupees One Hundred Ninety Five Only	8,61,315.00	Rupees Eight Lakh Sixty One Thousand Three Hundred Fifteen Only
86	Supplying and fixing G.I sheet 0.5mm thick fully corrugated roofing sheets over the truss work including fixing sheets to the framework using special aluminium extrusions, applying silicon sealant wherever necessary so as to make the roof water tight at all heights as per manufacturers specifications etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ²	291.00	852.90		2,48,193.90	
87	Supplying and fixing 2mm thick polycarbonate solid fully corrugated coloured roofing sheets over the truss work including fixing sheets to the framework using special aluminium extrusions, applying silicon sealant wherever necessary so as to make the roof water tight at all heights as per manufacturers specifications etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ²	80.00	2,400.00	Rupees Two Thousand Four Hundred Only	1,92,000.00	Rupees One Lakh Ninety Two Thousand Only
88	Providing and fixing pre-coated galvanised steel sheet roofing accessories of Ridges plain (500-600mm wide) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams 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 or 8mm dia J hooks to suit to fix the solar panels above the roofing with EPDM seal etc. complete, as per the drawings and directions of Engineer-in-Charge	m	22.00	817.65	Rupees Eight Hundred Seventeen and Sixty Five Paise Only	17,988.30	Rupees Seventeen Thousand Nine Hundred Eighty Eight and Thirty Paise Only
89	Providing & fixing 150x100mm size type PVC Eaves Gutter of approved make for collecting roof water with necessary SS brackets with all necessary fittings and jointing of gutter in line, level and water proof joints including all materials, scaffolding, labour etc complete as er detailed specifications and directions of Engineer-in-charge.	m	49.00	797.50	Rupees Seven Hundred Ninety Seven and Fifty Paise Only	39,077.50	Rupees Thirty Nine Thousand Seventy Seven and Fifty Paise Only
90	Providing and fixing rain water down pipes with 110 mm O.D. PVC pipe (Type- A) conforming to IS : 13592, of approved make with necessary brackets, clips, special shoe etc. including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (Single socketed pipes) etc complete as per detailed specifications and directions of Engineer-in-Charge.	m	55.00	414.60	Rupees Four Hundred Fourteen and Sixty Paise Only	22,803.00	Rupees Twenty Two Thousand Eight Hundred Three Only

91	Painting steel columns & truss with synthetic enamel paint in two or more coats of approved brand, colour and manufacture to give an even shade over the priming coat already done including cost of all materials, labour etc. all complete as per detailed specifications and directions of Engineer-in-Charge	m ²	203.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	33,535.60	Rupees Thirty Three Thousand Five Hundred Thirty Five and Sixty Paise Only
92	Providing and applying premium quality 100% acrylic emulsion exterior finish paint (Weather coat by Berger or Nerolac Excel or Weather shield by ICI Dulux or Snowcryl XT-premium by Snowcem India Ltd.) in two coats over one coat of primer for walls to give a smooth and even shade including scaffolding, topping of all holes and depressions, applying putty for the entire surface, cleaning with sand paper etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	198.00	174.80	Rupees One Hundred Seventy Four and Eighty Paise Only	34,610.40	Rupees Thirty Four Thousand Six Hundred Ten and Forty Paise Only
93	Providing and fixing used 50mm nominal bore 2.9mm thick GI Post to line and level & 25mm nominal bore 2.9mm thick GI runners <i>(posts and runners will be supplied by dept. free of cost)</i> with GI bolts, nuts and washes, including cost of all materials, labour, scaffolding etc. complete as per drawing, detailed specifications and directions of the Engineer-in-Charge.	Kg	313.00	42.00	Rupees Forty Two Only	13,146.00	Rupees Thirteen Thousand One Hundred Forty Six Only
94	Covering the sides of the shed with used 0.63mm G.I sheets <i>(sheets will be supplied by dept. free of cost)</i> by fixing to the GI Posts & runners with GI bolts, nuts and washes, including cost of all materials, labour, scaffolding etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ²	71.00	315.00	Rupees Three Hundred Fifteen Only	22,365.00	Rupees Twenty Two Thousand Three Hundred Sixty Five Only
95	Covering the sides of the shed using new GI sheets 0.63mm by fixing to the GI Posts & runners with GI bolts, nuts and washes, including cost of all materials, labour, scaffolding etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ²	132.00	815.00	Rupees Eight Hundred Fifteen Only	1,07,580.00	Rupees One Lakh Seven Thousand Five Hundred Eighty Only
96	Providing and fixing MS door with frame of 40x40x6mm angle iron, 3 mm M.S. gusset plates at the junctions & corners and 1mm thick M.S. sheet including all necessary fittings, applying a priming coat of approved steel primer etc. complete as per detailed specifications and directions of Engineer-in-charge.	m ²	7.00	6,018.00	Rupees Six Thousand Eighteen Only	42,126.00	Rupees Forty Two Thousand One Hundred Twenty Six Only
97	Providing and fixing mild steel ventilator of size 100 x 30 cm, using 25x25x6mm M.S angle frame and SS netting of 12mm square aperture including applying one coat of zincchromate primer & two coats of synthetic enamel painting to the M.S angle frame etc. all complete as per detailed specifications and directions of Engineer- in-Charge	m ²	20.00	1,980.00	Rupees One Thousand Nine Hundred Eighty Only	39,600.00	Rupees Thirty Nine Thousand Six Hundred Only
98	Painting doors & ventilators with two coats of synthetic enamel paint. Painting steel doors & ventilators with synthetic enamel paint in two or more coats of approved brand, colour and manufacture to give an even shade over the priming coat already done including cost of all materials, labour etc. all complete as per detailed specifications and directions of Engineer- in-Charge	m ²	26.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	4,295.20	Rupees Four Thousand Two Hundred Ninety Five and Twenty Paise Only
4. Modifications to Technology Building at Jetty area							
(a) Provisioning of Security Shelter for CISF							
99	Providing precast cement concrete solid block masonry, M15 grade using 20mm aggregates with factory made cement concrete blocks of size 300x200x150mm and 300x100x150mm in cement mortar 1:3 (1 cement: 3 sand) for dwarf wall including scaffolding, raking out and grooving of joints, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ³	0.50	19,354.20	Rupees Nineteen Thousand Three Hundred Fifty Four and Twenty Paise Only	9,677.10	Rupees Nine Thousand Six Hundred Seventy Seven and Ten Paise Only
100	Providing 12 mm thick plastering with cement mortar 1:4 (1cement : 4sand) for inside and outside walls, trowelled hard including scaffolding, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ²	4.00	362.70	Rupees Three Hundred Sixty Two and Seventy Paise Only	1,450.80	Rupees One Thousand Four Hundred Fifty and Eighty Paise Only
101	Providing and applying premium quality 100% acrylic emulsion exterior finish paint in two coats over one coat of primer for walls to give a smooth and even shade including scaffolding, topping of all holes and depressions, cleaning with sand paper etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	4.00	174.80	Rupees One Hundred Seventy Four and Eighty Paise Only	699.20	Rupees Six Hundred Ninety Nine and Twenty Paise Only
102	Providing and fixing factory made uPVC openable single/double leaf glazed door comprising of uPVC multi-chambered frame 67 x 64mm, sash 67 x 110mm and mullion(where ever required) with wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimensions having 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, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. using uPVC extrusions of "FENESTA" make or its equivalent approved with height max. upto 2300 mm. Glazing shall be of 8 mm toughened clear glass. 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-	m ²	2.00	12,410.00	Rupees Twelve Thousand Four Hundred Ten Only	24,820.00	Rupees Twenty Four Thousand Eight Hundred Twenty Only
103	Providing and fixing factory made uPVC two track sliding and fixed window comprising of uPVC multi-chambered frame (big series) 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and double glazing bead of appropriate dimension 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, uPVC extruded interlocks and uPVC extruded inline sash adaptor (if required), double glazed with (6 + 12 + 6) mm hermetically sealed toughened glass using uPVC extrusions of "FENESTA" make or its equivalent approved including EPDM gaskets, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, anchor fasteners, including sill bottom drainage and rain track complete finishing etc. After	m ²	4.00	9,393.90	Rupees Nine Thousand Three Hundred Ninety Three and Ninety Paise Only	37,575.60	Rupees Thirty Seven Thousand Five Hundred Seventy Five and Sixty Paise Only

104	Providing and fixing factory made uPVC fixed window comprising of uPVC multi-chambered frame 47 x 50mm and mullion 47 x 68mm both having wall thickness of 1.9±0.2mm 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, uPVC extruded interlocks and uPVC extruded inline sash adaptor (if required), double glazed with (6 + 12 + 6) mm hermetically sealed toughened glass using uPVC extrusions of "FENESTA" make or its equivalent approved including EPDM gaskets, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, anchor fasteners, including sill bottom drainage and rain track complete finishing etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with	m ²	2.50	8,804.90	Rupees Eight Thousand Eight Hundred Four and Ninety Paise Only	22,012.25	Rupees Twenty Two Thousand Twelve and Twenty Five Paise Only
105	Providing and laying Plain cement concrete of M20 grade with 20 mm aggregates for raising the floor, properly mixed and consolidated with and rammers, including side shuttering, spreading, compacting, cost and conveyance of all materials, labour, etc. complete as per drawing, detailed specifications and direction of the Engineer-in-charge.	m ³	1.00	9,799.40	Rupees Nine Thousand Seven Hundred Ninety Nine and Forty Paise Only	9,799.40	Rupees Nine Thousand Seven Hundred Ninety Nine and Forty Paise Only
106	Providing and laying vitrified floor tiles of minimum size 600x600 mm or available higher size of approved shade with true and square edges including providing mortar bed in cement mortar 1:4, 20mm thick, fixing the tiles with cement slurry, grouting and finishing the joints with cement based tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge. (The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m ²	2.50	2,039.30	Rupees Two Thousand Thirty Nine and Thirty Paise Only	5,098.25	Rupees Five Thousand Ninety Eight and Twenty Five Paise Only
107	Providing and laying Vitrified tiles of approved shade, in skirting with 150mm height, including providing mortar bed in cement mortar 1:3, 12mm thick, fixing the tiles with cement slurry, grouting and finishing the joints with cement based tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge. (The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m ²	1.00	2,100.90	Rupees Two Thousand One Hundred and Ninety Paise Only	2,100.90	Rupees Two Thousand One Hundred and Ninety Paise Only
108	Supplying, fabricating and erecting in position Structural steel work with tubular sections (round, square or rectangular hollow tubes) riveted, bolted or welded in truss work with RHS 100x100x6 post @ 16.98kg/m or other size, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge	Kg	113.00	195.00	Rupees One Hundred Ninety Five Only	22,035.00	Rupees Twenty Two Thousand Thirty Five Only
109	Providing and fixing M.S. grills to openings with rawl plugs screws etc. of required pattern with M.S. flats, square or round bars etc. including priming coat with approved epoxy steel primer all complete as per drawings, specifications and directions of Engineer-in-charge.	Kg	62.00	249.40	Rupees Two Hundred Forty Nine and Forty Paise Only	15,462.80	Rupees Fifteen Thousand Four Hundred Sixty Two and Eighty Paise Only
110	Painting grills with synthetic enamel paint in two or more coats of approved brand, colour and manufacture to give an even shade over the priming coat already done including cost of all materials, labour etc. all complete as per detailed specifications and directions of Engineer-in-Charge	m ²	6.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	991.20	Rupees Nine Hundred Ninety One and Twenty Paise Only
111	Providing and fixing Glass Reinforced Gypsum (GRC) plaster board 75 mm overall thickness partition with 12.5 mm thick double skin fire rated conforming to IS: 2095: (part 3) : 1996 (Board with BIS certification marks) partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm (both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints	m ²	10.00	2,366.30	Rupees Two Thousand Three Hundred Sixty Six and Thirty Paise Only	23,663.00	Rupees Twenty Three Thousand Six Hundred Sixty Three Only
112	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 15mm 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 2mm 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 all complete as per drawings, specifications and directions of Engineer-in-charge.	m	6.00	923.90	Rupees Nine Hundred Twenty Three and Ninety Paise Only	5,543.40	Rupees Five Thousand Five Hundred Forty Three and Forty Paise Only
113	Providing and fixing 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 all complete as per drawings, specifications and directions of Engineer-in-charge.	m ²	2.00	4,709.10	Rupees Four Thousand Seven Hundred Nine and Ten Paise Only	9,418.20	Rupees Nine Thousand Four Hundred Eighteen and Twenty Paise Only
	(b) Providing louvers					-	
114	Providing and fixing Aluminum Composite Panel (ACP) louvers with frame for covering the duct of size 1.3m wide and 6m depth with provision for openable shutter for maintenance purpose including cost of all materials, labour etc complete as per detailed specifications and directions of Engineer-in-charge.	m ²	10.00	6,760.00		67,600.00	

115	Providing and fixing ACP cladding system in position with solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to cover the exposed pipelines in first & second floor and all its interfaces with curtain glazing to make it watertight over the fabricated Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing ACP panel system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. as per drawings, detailed specifications and directions of the Engineer-in-Charge. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified.	m ²	20.00	4,008.20		80,164.00	
(c) Stainless steel railing							
116	Providing and fixing 1200mm high hand rails over roof parapet with stainless steel (grade 316) 16 gauge thick pipes consists of 65mm dia top rail with 65mm dia SS pipe and 25mm x 25mmx4mm SHS verticals (max. 30cm spacing) including cutting, bending all the corners smoothly, providing suitable caps at floor level to each post, cost of all materials and labour etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	Kg	849.00	970.00	Rupees Nine Hundred Seventy Only	8,23,530.00	Rupees Eight Lakh Twenty Three Thousand Five Hundred Thirty Only
117	Dismantling the existing MS hand rails on the roof including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead as per detailed specifications and directions of the Engineer-in-Charge. usable materials shall be handed over to the Department (Nearest Civil section)	Kg	194.00	5.70	Rupees Five and Seventy Paise Only	1,105.80	Rupees One Thousand One Hundred Five and Eighty Paise Only
(d) Providing & fixing guard bar / grills in lowered window							
118	Providing and fixing M.S. grills to openings in Equipment Room as per the required pattern with M.S. flats, square or round bars etc. including priming coat with approved steel primer, fixing with SS screws & rawl plugs all complete as per drawings, specifications and directions of Engineer-in-charge.	Kg	62.00	249.40		15,462.80	
119	Painting M S Grills with synthetic enamel paint in two or more coats on new work of approved brand, colour and manufacture to give an even shade including cleaning the surface etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	8.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	1,321.60	Rupees One Thousand Three Hundred Twenty One and Sixty Paise Only
(e) Providing Granite -top counter at window sill							
120	Fabricating and fixing SS frame with SHS 40x40x4 @ 2.7kg/m for supporting granite counter, including cutting, fabricating, fixing rigidly in correct alignment and position all complete as per drawing, detailed specifications and directions of Engineer-in-charge	Kg	67.00	990.00	Rupees Nine Hundred Ninety Only	66,330.00	Rupees Sixty Six Thousand Three Hundred Thirty Only
121	Providing and fixing Granite slab 25mm thick (Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent) in required design and patterns, for counters over SS frame work including rubbing, curing, polishing, materials, labour, fixing to SS frame with SS fixtures etc. all complete as per drawings, detailed specifications and directions of the Engineer-in-Charge. (The purchase price of granite stone shall be taken as Rs.228/sq.ft including all taxes)	m ²	2.00	5,446.60	Rupees Five Thousand Four Hundred Forty Six and Sixty Paise Only	10,893.20	Rupees Ten Thousand Eight Hundred Ninety Three and Twenty Paise Only
122	Providing edge moulding to 25mm thick granite slab to give high gloss finish etc. complete as per detailed specifications and directions of Engineer-in-Charge	m	5.00	511.30	Rupees Five Hundred Eleven and Thirty Paise Only	2,556.50	Rupees Two Thousand Five Hundred Fifty Six and Fifty Paise Only
(f) Providing rat / bird proofing at roof sides							
123	Providing and fixing mild steel ventilator of size 100 x 30 cm, using 25x25x6mm M.S angle frame and SS netting of 12mm square aperture including applying one coat of epoxy primer & two coats of synthetic enamel painting to the M.S angle frame, all materials and labour, etc complete as per drawings, detailed specifications and directions of Engineer-in-Charge.	m ²	11.00	2,015.00		22,165.00	
(g) Providing Door stopper for all floors							
124	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete as per detailed specification and directions of engineer-in-charge.	Nos.	15.00	316.00		4,740.00	
(h) Providing Sun Control Film for glass panels of SS door at Terrace floor							
125	Providing & fixing scratch resistant high durable approved colour Sun Control Film of 50% / 70% transparency for glass panels of SS door at the Third floor including cost of materials, labour, fixing charges etc complete as per detailed specifications and directions of Engineer-in-charge.	m ²	16.00	980.00	Rupees Nine Hundred Eighty Only	15,680.00	Rupees Fifteen Thousand Six Hundred Eighty Only
(i) Modifications to domestic water line to letty							
126	Providing and fixing 100 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes from the main line, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, fixing to concrete with SS clamps & testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	25.00	3,777.50	Rupees Three Thousand Seven Hundred Seventy Seven and Fifty Paise Only	94,437.50	Rupees Ninety Four Thousand Four Hundred Thirty Seven and Fifty Paise Only
127	Providing and fixing superior quality 4" dia Gun metal valve of approved make including necessary hardware, High or low pressure, with plastic floats complete as per drawings and directions of Engineer-in-charge.	Each	2.00	5,750.00	Rupees Five Thousand Seven Hundred Fifty Only	11,500.00	Rupees Eleven Thousand Five Hundred Only
128	Providing and fixing superior quality 4" dia Gun metal Non return valve conforming to IS: 778 with screwed end of approved make including cost of materials, labour etc. complete as per drawings and directions of Engineer-in-charge.	Each	2.00	9,060.00	Rupees Nine Thousand Sixty Only	18,120.00	Rupees Eighteen Thousand One Hundred Twenty Only
5. Modifications at letty							
129	Providing and fixing in position D-type rubber fenders 150mm H x 150mm D having energy absorption of 0.25 Ton-m per metre at max 52.5% deflection and max reaction force 9.6T per metre including bolts, nuts and washers of stainless steel SUS 316 grade, all fixtures, rigidly in correct alignment and position all as per drawing, handling, transportation, materials, labour, staging, tools, equipment, plants, machineries etc. complete as per drawing, detailed specifications and directions of Engineer-in-charge.	m	3.00	27,200.00	Rupees Twenty Seven Thousand Two Hundred Only	81,600.00	Rupees Eighty One Thousand Six Hundred Only

130	Providing and filling of the existing expansion joints with Polysulphide Sealant including cleaning the surface with wire brush to remove dirt, dust, laitance, soft mortar etc, treating the damaged edges after treating the surface with Fosroc Nitomortar 30 or equivalent materials, providing backer rods of suitable diameter over the polyethylene filler board, priming with Fosroc Primer 7E/ primer 4 or equivalent, laying expansion joint sealant with Fosroc Thioflex 600 or equivalent all including cost of all materials, labour etc complete as per detailed specifications and directions of Engineer-in-charge.	m	70.00	1,650.00	Rupees One Thousand Six Hundred Fifty Only	1,15,500.00	Rupees One Lakh Fifteen Thousand Five Hundred Only
(a) Modifications to Security Building near Connecting Bridge							
131	Supplying, fabricating and erecting in position Structural steel work tubular sections (round, square or rectangular hollow tubes) riveted, bolted or welded for MS Post (100x100x6mm or other sections), including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge	Kg	337.00	195.00	Rupees One Hundred Ninety Five Only	65,715.00	Rupees Sixty Five Thousand Seven Hundred Fifteen Only
132	Supplying, fabricating and erecting in position Structural steel work with tubular sections (round, square or rectangular hollow tubes) riveted, bolted or welded for MS runners (RHS 66x33x4.5mm) for fixing UPVC windows, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge	Kg	238.00	195.00	Rupees One Hundred Ninety Five Only	46,410.00	Rupees Forty Six Thousand Four Hundred Ten Only
133	Painting steel structural work with synthetic enamel paint in two or more coats on new work of approved brand, colour and manufacture to give an even shade etc. complete as per detailed specifications and directions of the Engineer-in-Charge	m ²	19.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	3,138.80	Rupees Three Thousand One Hundred Thirty Eight and Eighty Paise Only
134	Providing and fixing factory made uPVC openable single/double leaf glazed door comprising of uPVC multi-chambered frame 67 x 64mm, sash 67 x 110mm and mullion(where ever required) with wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimensions having 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, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one size key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. using uPVC extrusions of " FENESTA" make or its equivalent approved with height max. upto 2300 mm. Glazing shall be of 8 mm toughened clear glass. 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.	m ²	1.90	12,410.00	Rupees Twelve Thousand Four Hundred Ten Only	23,579.00	Rupees Twenty Three Thousand Five Hundred Seventy Nine Only
135	Providing and fixing factory made uPVC two track sliding and fixed window comprising of uPVC multi-chambered frame (big series) 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and double glazing bead of appropriate dimension 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, uPVC extruded interlocks and uPVC extruded inline sash adaptor (if required), double glazed with (6 + 12 + 6) mm hermetically sealed toughened glass using uPVC extrusions of " FENESTA" make or its equivalent approved including EPDM gaskets, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, anchor fasteners, including sill bottom drainage and rain track complete finishing etc. After	m ²	14.00	9,393.90	Rupees Nine Thousand Three Hundred Ninety Three and Ninety Paise Only	1,31,514.60	Rupees One Lakh Thirty One Thousand Five Hundred Fourteen and Sixty Paise Only
136	Providing and fixing factory made uPVC fixed window comprising of uPVC multi-chambered frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm 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, uPVC extruded interlocks and uPVC extruded inline sash adaptor (if required), double glazed with (6 + 12 + 6) mm hermetically sealed toughened glass using uPVC extrusions of " FENESTA" make or its equivalent approved including EPDM gaskets, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, anchor fasteners, including sill bottom drainage and rain track complete finishing etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with	m ²	6.00	8,804.90	Rupees Eight Thousand Eight Hundred Four and Ninety Paise Only	52,829.40	Rupees Fifty Two Thousand Eight Hundred Twenty Nine and Forty Paise Only
137	Supplying and fixing of vertical Venetian blinds 100 mm wide of Vista / Max make or equivalent with all accessories to the windows including fixing etc., The Rate is including cost and conveyance of all materials, labour charges and all operational, incidental charges etc., complete as per detailed specifications and directions of Engineer-in-Charge.	m ²	16.00	2,000.00	Rupees Two Thousand Only	32,000.00	Rupees Thirty Two Thousand Only

138	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS:8225:1987, light reflectance of 85% (minimum), non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity <0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x9.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic crawl plugs at 450 mm center to center and 40 mm long dry wall S.S screws etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge.	m ²	15.00	2,295.20	Rupees Two Thousand Two Hundred Ninety Five and Twenty Paise Only	34,428.00	Rupees Thirty Four Thousand Four Hundred Twenty Eight Only
139	Providing and applying weather resistant premium quality 100% acrylic emulsion exterior finish paint of approved make and shade in two coats over one coat of primer for walls to give a smooth and even shade including scaffolding, topping of all holes and depressions, applying putty for the entire surface, cleaning with sand paper etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	32.00	174.80	Rupees One Hundred Seventy Four and Eighty Paise Only	5,593.60	Rupees Five Thousand Five Hundred Ninety Three and Sixty Paise Only
140	Providing and laying vitrified floor tiles of size 600x600 mm or nearest available size of approved shade, make of Johnson or Khajaria or Asian or Somany or Orient Bell with water absorption less than 0.08 % and conforming to IS:15622 with true and square edges including providing mortar bed in cement mortar 1:4, 20mm thick, fixing the tiles with cement slurry @ 3.3 kg/ sq m, grouting and finishing the joints with tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge.(The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m ²	15.00	2,039.30	Rupees Two Thousand Thirty Nine and Thirty Paise Only	30,589.50	Rupees Thirty Thousand Five Hundred Eighty Nine and Fifty Paise Only
141	Providing and laying Vitrified tiles of approved shade, in skirting with 150mm height and width to suit flooring, including providing mortar bed in cement mortar 1:3, 12mm thick, fixing the tiles with cement slurry, grouting and finishing the joints with cement based tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge. (The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m ²	3.00	2,100.90	Rupees Two Thousand One Hundred and Ninety Paise Only	6,302.70	Rupees Six Thousand Three Hundred Two and Seventy Paise Only
142	Supplying, fabricating and erecting in position Structural steel work with builtup tubular sections (round, square or rectangular hollow tubes etc.) riveted, bolted or welded in truss work, 60x3x4.5 rafters, struts & purlins, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge.	Kg	393.00	195.00	Rupees One Hundred Ninety Five Only	76,635.00	Rupees Seventy Six Thousand Six Hundred Thirty Five Only
143	Providing and fixing Sandwich PUF roofing sheets with 0.50mm thick Aluminium roofing sheet in top, 0.30mm Galvanum sheet in bottom and minimum 30mm PUF insulation in between sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) with zinc coating 120 grams per sqm as per IS:277, protective guard film of 25 microns minimum to avoid scratches during transportation, in single length upto 12 meter fixing to purlins with self drilling SS screws or 8mm dia SS J-hooks to suit to fix the solar panels above the roofing with EPDM seal etc. complete as per the drawing, detailed specifications and directions of Engineer-in-charge.	m ²	36.00	2,805.00	Rupees Two Thousand Eight Hundred Five Only	1,00,980.00	Rupees One Lakh Nine Hundred Eighty Only
144	Painting M S truss with synthetic enamel paint in two or more coats on new work of approved brand, colour and manufacture to give an even shade including sand papering, cleaning surface etc. complete as per detailed specifications and directions of the Engineer-in-Charge	m ²	17.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	2,808.40	Rupees Two Thousand Eight Hundred Eight and Forty Paise Only
145	Providing and fixing pre-coated galvanised steel sheet roofing accessories of Ridges plain (500-600mm wide) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams 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 or 8mm dia J hooks to suit to fix the solar panels above the roofing with EPDM seal etc. complete, as per the drawings and directions of Engineer-in-Charge.	m	7.00	817.65	Rupees Eight Hundred Seventeen and Sixty Five Paise Only	5,723.55	Rupees Five Thousand Seven Hundred Twenty Three and Fifty Five Paise Only
146	Providing & fixing 150x100mm size type PVC Eaves Gutter of approved make for collecting roof water with necessary SS brackets with all necessary fittings and joints of gutter in line, level and watertight including all materials, scaffolding, labour etc complete as per drawings, detailed specifications and directions of Engineer-in-charge.	m	14.00	797.50	Rupees Seven Hundred Ninety Seven and Fifty Paise Only	11,165.00	Rupees Eleven Thousand One Hundred Sixty Five Only
147	Providing and fixing 110mm OD Class-II (4kg/cm2) PVC down pipes of approved make for rain water harvesting with necessary brackets, including all necessary fittings and specials like door bends and tees, jointing, testing of joints, cutting masonry or concrete, floor slabs etc. and making good the same wherever necessary connecting the pipes to the tank, materials, labour etc complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	m	40.00	414.60	Rupees Four Hundred Fourteen and Sixty Paise Only	16,584.00	Rupees Sixteen Thousand Five Hundred Eighty Four Only
Providing Guard Piles near Approach Bridge & Jetty							
148	Supplying and fabricating and 500 mm dia tubular fender piles using MS pipes of 10mm shell thickness including cost of all materials, labour, cutting, rolling, welding, painting above chart datum with one coat of epoxy primer and 2 coats of enamel paint etc complete for guard piles in water to the required length (Approx. length -20m) as per drawings, detailed specifications and directions of the Engineer-in-charge.	T	116.80	1,58,000.00	Rupees One Lakh Fifty Eight Thousand Only	1,84,54,400.00	Rupees One Crore Eighty Four Lakh Fifty Four Thousand Four Hundred Only

149	Transporting the fabricated MS guard piles fabricated as per item no.148 above from the fabrication yard to pile location, handling, pitching and driving the MS pipes to required level and verticality including setting for piling rigs/ gantry in position, temporary works for driving piles etc. complete all as per drawings, detailed specifications and directions of Engineer-in-charge.	Each	41.00	45,000.00	Rupees Forty Five Thousand Only	18,45,000.00	Rupees Eighteen Lakh Forty Five Thousand Only
150	Supplying and fabricating 300 mm dia tubular bracings using MS pipes of 10mm shell thickness and welding the bracings between the guard piles at two levels including cost of all materials, labour, cutting, rolling, welding, painting with one coat of epoxy primer and 2 coats of enamel paint etc complete in water to the required length (approx.length -2m) as per the drawings, detailed specifications and directions of the Engineer-in-charge.	T	23.75	1,61,000.00	Rupees One Lakh Sixty One Thousand Only	38,23,750.00	Rupees Thirty Eight Lakh Twenty Three Thousand Seven Hundred Fifty Only
	(1) Providing hard-wearing skid resistant flexible coating on the deck slab						-
151	Providing and applying hard wearing, skid resistant, flexible protection system Traffic guard UR150 systems or approved equivalent over deck slab of Jetty Head and Approach Trestle, consist of multiple layers of Traffic guard UR150 Primer / Nitoprime 30 or approved equivalent to the prepared surface at an application rate in the range of 0.2 to 0.3 ltr/m ² including cost of material, labour, equipment necessary for surface preparation etc complete as per detailed specifications and directions of Engineer-in-charge.	m ²	4,070.00	830.00		33,78,100.00	
	(2) Providing cantilever lean-to-roof for the parking area of Technology Building						-
152	Supplying, fabricating and erecting in position Structural steel work with built up tubular sections (round, square or rectangular hollow tubes) riveted, bolted or welded in truss work with <u>RHS members 66x33x2.9mm rafters, 25x25x2.6mm struts & purlins</u> including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge	Kg	264.00	138.30	Rupees One Hundred Thirty Eight and Thirty Paise Only	36,511.20	Rupees Thirty Six Thousand Five Hundred Eleven and Twenty Paise Only
153	Providing and fixing Sandwich PUF roofing sheets with 0.50mm thick Aluminium roofing sheet in top, 0.30mm Galvanum sheet in bottom and minimum 30mm PUF insulation in between sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) with zinc coating 120 grams per sqm as per IS:277, protective guard film of 25 microns minimum to avoid scratches during transportation, in single length upto 12 meter fixing to purlins with self drilling SS screws or 8mm dia SS J-hooks to suit to fix the solar panels above the roofing with EPDM seal etc. complete as per the drawing, detailed specifications and directions of Engineer-in-charge.	m ²	22.00	2,805.00	Rupees Two Thousand Eight Hundred Five Only	61,710.00	Rupees Sixty One Thousand Seven Hundred Ten Only
154	Providing and fixing ACP cladding system in position with solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight over the fabricated Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing ACP panel system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. as per drawings, detailed specifications and directions of the Engineer-in-Charge. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified.	m ²	65.00	4,008.20	Rupees Four Thousand Eight and Twenty Paise Only	2,60,533.00	Rupees Two Lakh Sixty Thousand Five Hundred Thirty Three Only
155	Painting steel structural work with synthetic enamel paint in two or more coats on new work of approved brand, colour and manufacture to give an even shade etc. complete as per detailed specifications and directions of the Engineer-in-Charge	m ²	17.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	2,808.40	Rupees Two Thousand Eight Hundred Eight and Forty Paise Only
156	Providing and fixing 150x100 size type PVC gutter of approved make for collecting roof water, with necessary SS brackets with all necessary fittings and jointing of gutter in line and level including scaffolding labour etc. complete as per detailed specifications and directions of Engineer-in-Charge.	m	13.00	817.65	Rupees Eight Hundred Seventeen and Sixty Five Paise Only	10,629.45	Rupees Ten Thousand Six Hundred Twenty Nine and Forty Five Paise Only
157	Providing and fixing 110mm dia Class-II (4kg/cm ²) PVC down pipes of approved make for rain water harvesting with necessary brackets, including all necessary fittings and specials like door bends and tees, jointing, testing of joint cutting masonry or concrete, floor slabs etc. and making good the same wherever necessary connecting the pipes to the tank/labour etc complete as per detailed specifications and directions of the Engineer-in-charge.	m	6.00	414.60	Rupees Four Hundred Fourteen and Sixty Paise Only	2,487.60	Rupees Two Thousand Four Hundred Eighty Seven and Sixty Paise Only
158	Core cutting the RCC deck slab (max. 350mm thick) using suitable mechanical devices for inserting the Rain water down pipe 110mm dia including cost of equipments, labour etc complete as per detailed specifications and directions of Engineer-in-charge	No.	1.00	1,750.00	Rupees One Thousand Seven Hundred Fifty Only	1,750.00	Rupees One Thousand Seven Hundred Fifty Only
	(3) Providing readymade rectangular OH tank at the staircase roof top of security building						-
159	Providing and placing on spiral stair roof slab, polyethylene water storage tank, (1000 lit. capacity) ISI : 12701 marked with food grade plastic, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings as per detailed specifications and directions of Engineer-in-charge.	Lit	1,000.00	12.00	Rupees Twelve Only	12,000.00	Rupees Twelve Thousand Only
	Providing Water supply connections to OH water tank						-
160	Providing and fixing 32 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	25.00	653.10	Rupees Six Hundred Fifty Three and Ten Paise Only	16,327.50	Rupees Sixteen Thousand Three Hundred Twenty Seven and Fifty Paise Only
161	Providing and fixing 20 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	25.00	417.20	Rupees Four Hundred Seventeen and Twenty Paise Only	10,430.00	Rupees Ten Thousand Four Hundred Thirty Only

162	Supplying, and fixing superior quality 32mm Gate valve of "LEADER"/ hudco make or equivalent approved make with ISI-mark including necessary hardware, high or low pressure, with plastic floats complete as per detailed specifications and directions of Engineer-in-charge.	Each	1.00	789.90	Rupees Seven Hundred Eighty Nine and Ninety Paise Only	789.90	Rupees Seven Hundred Eighty Nine and Ninety Paise Only
(4) Shifting of present OH tank on the roof top of security building							
163	Dismantling and taking down the polyethylene water storage tank, (750 lit. capacity) from the roof top including all all water supply lines as per detailed specifications and directions of Engineer-in-Charge.	No.	1.00	3,300.00		3,300.00	
(5) Providing suitable access to the new OH tank at the staircase roof top of security building							
164	Supplying, fabricating and erecting in position Structural steel work with built up tubular setions (round, square or rectangular hollow tubes) riveted, bolted or welded for ladder with RHS members, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge.	Kg	268.00	195.00	Rupees One Hundred Ninety Five Only	52,260.00	Rupees Fifty Two Thousand Two Hundred Sixty Only
165	Painting ladder with synthetic enamel paint in two or more coats of approved brand, colour and manufacture to give an even shade etc. complete as per detailed specifications and directions of the Engineer-in-Charge	m ²	22.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	3,634.40	Rupees Three Thousand Six Hundred Thirty Four and Forty Paise Only
(6) Providing Granite top counter top at Security building							
166	Fabricating and fixing SS frame with SHS 40x40x4 @ 2.7kg/m for supporting granite counter, including cutting, fabricating, fixing rigidly in correct alignment and position all complete as per drawing, detailed specifications and directions of Engineer-in-charge	Kg	43.00	990.00	Rupees Nine Hundred Ninety Only	42,570.00	Rupees Forty Two Thousand Five Hundred Seventy Only
167	Providing and fixing Granite slab 25mm thick (Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent) in required design and patterns, for counters over SS frame work including rubbing, curing, polishing, materials, labour, fixing to SS frame with SS fixtures etc. all complete as per drawings, detailed specifications and directions of the Engineer-in-Charge. (The purchase price of granite stone shall be taken as Rs.228/sq.ft including all taxes)	m ²	1.00	5,446.60	Rupees Five Thousand Four Hundred Forty Six and Sixty Paise Only	5,446.60	Rupees Five Thousand Four Hundred Forty Six and Sixty Paise Only
168	Providing edge moulding to 25mm thick granite slab to give high gloss finish etc. complete as per detailed specifications and directions of Engineer-in-Charge	m	3.00	511.30		1,533.90	
(7) Re orientation / relaying of plumbing system of Technology building to provide option of filling of tanks either directly or by using pumps							
169	Providing and fixing 50 mm nominal dia.Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	50.00	1,075.90	Rupees One Thousand Seventy Five and Ninety Paise Only	53,795.00	Rupees Fifty Three Thousand Seven Hundred Ninety Five Only
170	Supplying and fixing superior quality 2" dia Gun metal float valve of "LEADER"/ hudco make or equivalent with ISI-mark including cost of all materials, labour etc.complete as per detailes specifications and directions of Engineer-in-charge.	Each	2.00	7,860.00	Rupees Seven Thousand Eight Hundred Sixty Only	15,720.00	Rupees Fifteen Thousand Seven Hundred Twenty Only
171	Core cutting the RCC side wall of sump tank (max. 250mm thick) using suitable mechanical devices for inserting the CPVC pipe 50 mm dia including cost of equipments, labour etc complete as per detailed specifications and directions of Engineer-in-charge.	Each	3.00	3,260.00	Rupees Three Thousand Two Hundred Sixty Only	9,780.00	Rupees Nine Thousand Seven Hundred Eighty Only

	(8) Providing Manhole covers in the equipment room of technology building					-	
172	Providing and fixing teak wood frame with teak wood member of size 5cm x 5cm for Manhole covering (opening size 93 x 92cm) including cost of all materials labour etc complete as per detailed specifications and directions of Engineer-in-charge.	m ³	0.70	2,53,000.00	Rupees Two Lakh Fifty Three Thousand Only	1,77,100.00	Rupees One Lakh Seventy Seven Thousand One Hundred Only
173	Providing and laying flamed finish Granite stone 40mm thick (Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent) over the teak wood frame as Manhole cover including cost of all materials labour etc complete as per detailed specifications and directions of Engineer-in-charge.	m ²	4.00	7,250.00	Rupees Seven Thousand Two Hundred Fifty Only	29,000.00	Rupees Twenty Nine Thousand Only
	(9) Rerouting exhaust duct of the toilet at GF of Technology building					-	
174	Providing & fixing 110mm PVC Pipe at ceiling level for exhaust in GF Toilet including fixing with MS clamps, clips including cost of all materials labour etc complete as per detailed specifications and directions of Engineer-in-charge	m	10.00	414.60	Rupees Four Hundred Fourteen and Sixty Paise Only	4,146.00	Rupees Four Thousand One Hundred Forty Six Only
	(10) Providing Electronic Toilets behind new Security building for Guest workers					-	
175	Supply, installation, testing & commissioning of modular, unmanned and automated environment friendly pre-fabricated electronic public toilets made of stainless steel grade 304. The super structure of the electronic toilet to have aesthetic ambience with inner room size not less than 1.2m x 0.8m x 2.1m (LxWxH). Size of Electronic Toilet-Overall size not more than - 2.5m x 1.5m x 3.0m (L x W x H) Total area not more than 4 Sq. m. The toilet shall have access controlled main door and side walls made of stainless steel grade 304. Toilet floor and closet are to be stainless steel grade 304. The toilet shall have built-in water tank with minimum 500 litre capacity. Access control using coin validator for entering the unit based on automatic payment collection mechanism. Exit from the unit should be manual. Toilets shall have automatic lights inside the unit, which glows on opening the door. Automatic flushing system which includes (a) Automatic Pre-flush cleaning before use * (b) Automatic closet washing mechanism after use and (c) Automatic Platform cleaning mechanism programmed after specific number of users. In addition to this, flush switch is to be provided for manual operation. Features shall include health faucet, exhaust fan and cloth hanger. Alerts to the users- Automatic Pre-flush cleaning before use * (a) Automatic closet washing mechanism after use and (c) Automatic Platform cleaning mechanism programmed after specific number of users. In addition to this, flush switch is to be provided for manual operation. Features shall include health faucet, exhaust fan and cloth hanger. Alerts to the users-	Each	2.00	6,20,000.00	Rupees Six Lakh Twenty Thousand Only	12,40,000.00	Rupees Twelve Lakh Forty Thousand Only
176	Providing and laying Plain cement concrete of M20 grade with 20 mm aggregates for platform to line and level, properly mixed and consolidated with rammers, including side shuttering, spreading, compacting, bailing out water, if required, cost and conveyance of all materials, labour, etc. complete as per drawing, detailed specifications and direction of the Engineer-in-charge.	m ³	2.00	10,438.20	Rupees Ten Thousand Four Hundred Thirty Eight and Twenty Paise Only	20,876.40	Rupees Twenty Thousand Eight Hundred Seventy Six and Forty Paise Only
177	Providing and laying Reinforced cement concrete of M20 grade for base slab, excluding reinforcement work and including cost of all materials, labours, centering, shuttering, admixtures, vibrating, curing etc. complete as per drawings, detailed specification, and direction of Engineer-in-Charge.	m ³	4.00	13,924.70	Rupees Thirteen Thousand Nine Hundred Twenty Four and Seventy Paise Only	55,698.80	Rupees Fifty Five Thousand Six Hundred Ninety Eight and Eighty Paise Only
178	Providing and fixing reinforcement using TMT/CRS/ ordinary quality HYSD bars of Fe 500/Fe 415 grade for the RCC work for item 178 above including conveying, straightening, cutting, bending and tying in position etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	Kg	313.00	113.50	Rupees One Hundred Thirteen and Fifty Paise Only	35,525.50	Rupees Thirty Five Thousand Five Hundred Twenty Five and Fifty Paise Only
179	Providing 20 mm thick plastering with cement mortar 1:3 (1cement : 3 sand) , trowelled hard including curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	21.00	626.10	Rupees Six Hundred Twenty Six and Ten Paise Only	13,148.10	Rupees Thirteen Thousand One Hundred Forty Eight and Ten Paise Only
180	Providing and fixing 25 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes for water supply Inner lines, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	50.00	443.90	Rupees Four Hundred Forty Three and Ninety Paise Only	22,195.00	Rupees Twenty Two Thousand One Hundred Ninety Five Only
181	Providing and fixing 15 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes for water supply Inner lines, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	4.00	275.70	Rupees Two Hundred Seventy Five and Seventy Paise Only	1,102.80	Rupees One Thousand One Hundred Two and Eighty Paise Only
	TOTAL					4,40,77,979.15	Rupees Four Crore Forty Lakh Seventy Seven Thousand Nine Hundred Seventy Nine and Fifteen Paise Only
	BIDDER'S QUOTING AREA						
Sl. No.	Description of Work	Departmental Estimated Cost (Rs)	Percentage Quoted above/ below the Departmental Amount by the Bidder		Above/Below		
			* In Figures	*In Words			
	Percentage Quoted above / below the Departmental Amount shown in the above Schedule	4,40,77,979					
	* Note						
	1. The Bidder shall quote both in figures and words						
	2. The Bidders shall also quote Above / Below in words themselves in the last column						
	3. Only two decimal digits will be accepted.						