

**HARBOUR DIVISION****NAME OF WORK :- Two Years Maintenance Contract for Office buildings Outside Port area (Civil Work)****BILL OF QUANTITY****SCHEDULE - B**

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
	<b>PART - A (CIVIL WORK)</b>						
	<b>Concrete Works</b>						
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.						
	All kinds of soil	100.00	114.96		cum		11,496.00
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	100.00	122.61		cum		12,261.00
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level						
(a)	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	20.00	3212.33		cum		64,246.60
4	Providing & laying cement concrete solid blocks 1:8:6 (machine made) confirming to relevant IS (Latest Edition) masonry 150 to 200mm thick set in cement mortar 1:6 including curing etc. complete as directed.						
(a)	Plinth & foundations.	20.00	2969.00		cum		59,380.00
(b)	In superstructure upto floor Five level.	50.00	3205.00		cum		1,60,250.00
5	Providing & laying cement concrete solid block masonry 1:8:6 (machine made) 100 mm thick set in cement mortar 1:6 including curing etc. complete as directed.						
(a)	in plinth & foundations & Super structure up to Floor Six Level	100.00	447.00		sqm		44,700.00
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :						
(a)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	10.00	5115.07		cum		51,150.70
(b)	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	10.00	4579.26		cum		45,792.60
7	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :						
(a)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	20.00	6016.72		cum		1,20,334.40
8	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	20.00	6274.56		cum		1,25,491.20

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9	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1½:3 (1 cement : 1½ coarse sand :3 graded stone aggregate 20mm nominal size).3 graded stone aggregate 20mm nominal size).	5.00	5581.78		cum		27,908.90
10	Reinforced cement concrete work in Slabs (any thickness), including attached pilasters, buttresses, etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :						
(a)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	15.00	6146.00		cum		92,190.00
	<b>FORM WORK</b>						
11	Centering and shuttering including strutting, propping etc. and removal of form for all heights including the cost of necessary formwork, scaffolding etc., complete as directed for work up to floor Five level. (Rate is exclusive of cost of reinforcement)						
	in All kind of R.C.C Works	800.00	406.00		sqm		3,24,800.00
12	Providing, laying and fixing in position upto 1 km lead Reinforced cement of Mix 1: 1.5 : 3 pre cast RCC slab consisting of ingredients of cement, sand and crushed graded stone metal including weigh batching, mixing, depositing, vibrating, leveling, curing including the cost of necessary formwork, scaffolding etc., complete as directed for work up to floor two level. (Rate is exclusive of cost of reinforcement)	50.00	6137.00		cum		3,06,850.00
13	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete above plinth level.						
(a)	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	12000.00	70.41		kg		8,44,920.00
	<b>Wood Works and Hardware Items</b>						
14	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length						
(a)	Sal wood	0.50	58932.54		cum		29,466.27
15	Providing and fixing Flush Door shutters 35 mm thick, with flat pressed three layer particle board or graded wood particle board IS:12823 marked, exterior grade (Grade I Type II), having Both side decorative lamination of Royal touch lamination of 1.00 mm or more thick as directed , including 1st class teak wood lipping of 30 mm wide x12 mm thick and making cut and fixing 8 mm thick plain glass if required size and shape with necessary screws and bright finished stainless steel Butt hinges, complete as per direction of the Engineer-in-Charge						
(a)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	300.00	2494.00		sqm		7,48,200.00
16	Providing and fixing cup board shutters 25 mm thick, with flat pressed three layer particle board or graded wood particle board IS:12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including 1st class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge						
	Considered 20 shutters of size 1.20 X 2.05	100.00	1354.9		sqm		1,35,490.00
17	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :						
a	125x64x2.50 mm	200.00	66.93		Each		13,386.00
b	100x60x2.50 mm	200.00	53.5		Each		10,700.00
c	75x50x2.50 mm	200.00	39.36		Each		7,872.00

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18	Supplying & fixing the following fixtures of approved quality to the doors, windows, ventilators etc. complete as directed by Engineer-in-Charge.						
a	STAINLESS STEEL FITTINGS :						
	i) Tower bolt 200 mm size	200.00	116.00		Each		23,200.00
	ii) Tower bolts 100 mm size.	200.00	55.00		Each		11,000.00
	iii) Handle 150 mm size.	200.00	55.00		Each		11,000.00
	iv) Handle 100 mm size.	200.00	33.00		Each		6,600.00
	v) Aldrop 300 x 16 mm size	100.00	440.00		Each		44,000.00
	vi) Eye hook 200 mm size	50.00	55.00		Each		2,750.00
	vii) Eye hook 150 mm size	50.00	44.00		Each		2,200.00
	viii) Latch 250 mm size	100.00	165.00		Each		16,500.00
	ix) Latch Lock (Handle)	100.00	1100.00		Pair		1,10,000.00
	x) Mortaise Lock (Handle)	100.00	1650.00		Pair		1,65,000.00
19	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.						
a	40 mm	100.00	318.3		each		31,830.00
	Aluminum works						
20	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid separately) :						
(a)	For fixed portion						
	(i) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, )	500.00	381.37		kg		1,90,685.00
(b)	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required						
	(i) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, )(Inclusive of all fittings and fixtures)	100.00	460.66		kg		46,066.00
21	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.						
(a)	Pre-laminated particle board with decorative lamination on both sides	100.00	626.67		sqm		62,667.00
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (cost shall be inclusive of all snap beading and fittings etc)						
(b)	With float glass panes of 5.00 mm thickness	50.00	1049.21		sqm		52,460.50
(c)	With float glass panes of 8 mm thickness	100.00	1469.71		sqm		1,46,971.00

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
23	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.						
(a)	With stainless steel cover plate minimum 1.25 mm thickness	20.00	4701.51		each		94,030.20
24	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	100.00	1117.63		each		1,11,763.00
	Fabrication Works						
25	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	5000.00	78.58		kg		3,92,900.00
	Roofing Works						
26	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :						
(a)	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I	500.00	921.53		sqm		4,60,765.00
27	Providing & fixing 6mm thick multiwall poly carbonate sheet of required shape and shade complete with cost of nuts, bolts, washers, aluminium wind tie etc. filling of gap of sheets at joint of sheets with silicon. The work also comprises of fixing of aluminium jingles at both sides of sheets as directed by Engineer-In-Charge.	200.00	790.00		Sqm		1,58,000.00
28	Providing high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	210.00	340.03		sqm		71,406.00
29	Providing and fixing ridges and hips in fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.						
(a)	Corrugated serrated adjustable ridges	50.00	301.62		sqm		15,081.00

Item No.	Description	Total Qty.	Rate		Unit		Amount
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	<b>Flooring/ Tiles Works</b>						
30	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.						
(a)	40 mm thick with 20 mm nominal size stone aggregate	400.00	309.84		sqm		1,23,936.00
31	Providing and laying full body Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in walls,Floors, Door & Window Jambs, skirting, riser of steps, or as an where required , laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 10 to 15 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately)						
(a)	Size of Tile 600x600 mm	600.00	1376.00		sqm		8,25,600.00
(b)	Size of Tile 600 x 1200 mm	100.00	1431.00		sqm		1,43,100.00
32	Providing and laying 80 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	1000.00	653.00		sqm		6,53,000.00
33	Providing and fixing 18 mm thick gang saw cut, mirror polished,premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement,mixed with matching pigment, epoxy touch ups, including rubbing, curing,moulding and polishing to edges to give high gloss finish etc. complete at all levels.						
	<b>Granite of any colour and shade</b>						
	Area of slab over 0.50 sqm	150.00	3002.83		sqm		4,50,424.50
34	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :						
	20 mm thick	100.00	1423.76		sqm		1,42,376.00
35	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	100.00	1440.12		sqm		1,44,012.00
36	Mirror polishing on marble work/Granite work kota stone work where ever required to give high gloss finish complete.	400.00	236.95		sqm		94,780.00
37	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with White/ grey cement slurry, including rubbing and polishing complete with :						
(A)	Udaipur green marble in Floor/ Skirting/ walls/ Doors and Window Jambs etc. complete	200.00	1508.03		sqm		3,01,606.00
(B)	Udaipur green marble in Steps , Trade ,Riser Prepolished and Moulding / Sandwich etc. complete as directed	100.00	1876.12		sqm		1,87,612.00

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
	<b>Plastering /White Washing and Painting</b>						
38	Removing white or colour wash by scrapping and sand papering or by electric hand grider and preparing the surface smooth including necessary repairs to scratches etc. complete	20000.00	7.81		sqm		1,56,200.00
39	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	5000.00	21.76		sqm		1,08,800.00
40	Filling of crackes with cement mortar 1:1:2 consisting of one part of cement, one part of sand and two parts of six mm fine gri and adding 4% SBR liquid of standard brand like Sika/fosroc or pidilite and by making V- groove of size 25 mm deep and 40 mm wide in masonry up to floor six level complete with scaffolding, curing etc. fo match with existing surface with proper finishing as directed by engineer in charge.	1000.00	68.00		Rmt		68,000.00
41	Plastering 12 mm thick with cement mortar 1:4, including the preparing the surface by raking out joints, scrubbing and cleaning, finishing smooth, curing etc complete for Exterior/ Interior both plastering upto floor Six level. <b>CEMENT PLASTER (IN COARSE SAND)</b>						
(a)	1:4 (1 cement: 4 coarse sand)	5000.00	158.62		sqm		7,93,100.00
42	White or Metori Washing on walls or ceiling with lime to give even shade including scraping and cleaning the surface including cost of indigo, DDL adhesive , tools tackles complete all material and labour as directed by Engineer in charge						
(a)	Old work (two or more coats)	10000.00	9.97		sqm		99,700.00
43	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour including raking out the joints, scrubbing, cleaning, and Preparing the surface, finishing smooth,complete. as per manufacturer's specification.						
(a)	Two or more coats	12000.00	56.00		sqm		6,72,000.00
44	Finishing & smooth facing the wall surface with two coats of acrylic based cement putty of approved make & brand including and over the one of cement primer on new/old surface etc., complete all labour and material as directed by the engineer-in-charge.						
(a)	Two or more coats	2000.00	42.00		sqm		84,000.00
45	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:						
(a)	One or more coats on old work	2000.00	53.93		sqm		1,07,860.00
46	Painting Two coat ( excluding priming coat ) on New/ previously painted steel and other metal surfaces with synthetic enamel paint brushing exterior type-I to give an even shade including cleaning the surfaces of all dirt, dust, and other foreign matter on surfaces over 10cm in width / girth.						
(a)	Two or more coats on old/New work	1000.00	87.00		sqm		87,000.00
47	Painting Two coat ( excluding priming coat ) on previously painted wood or wood based surfaces with ENAMEL PAINT interior to give an even shade including cleaning the surfaces of all dirt, dust, and other foreign mater sand papering and stopping on surfaces over 10cm in width / girth.						
(a)	Two or more coats on old/New work	1000.00	92.00		sqm		92,000.00

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
48	Finishing wall with Acrylic Smooth exterior paint of approved brand and make of required shade including scrubbing and cleaning the surface, curing etc., complete as directed.						
(a)	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	10000.00	75.69		sqm		7,56,900.00
(b)	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	1000.00	48.15		sqm		48,150.00
	<b>Water Supply And Sanitary works</b>						
49	Providing, laying & jointing APVC pipes of required working pressure as per I.S.I. including cutting and jointing the pipe ends as per manufacturer's instructions in Concealed work, including cutting chases and making good the walls etc. or External work including the cost of all the specials plain & brass threaded fittings, APVC Valves, wherever required and, excavation and refilling of the trenches or fixing on walls or similar structures with clamps and testing the joints etc., complete as directed.						
(a)	15 mm nominal dia Pipes	300.00	99.00		metre		29,700.00
(b)	20 mm nominal dia Pipes	200.00	121.00		metre		24,200.00
(c)	25 mm nominal dia Pipes	500.00	152.00		metre		76,000.00
(d)	40 mm nominal dia Pipes	100.00	218.00		metre		21,800.00
(e)	50 mm nominal dia Pipes	50.00	279.00		metre		13,950.00
50	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.						
	Internal work - Exposed on wall						
(a)	15 mm dia nominal bore	100.00	192.94		metre		19,294.00
(b)	20 mm dia nominal bore	100.00	232.06		metre		23,206.00
(c)	25 mm dia nominal bore	200.00	287.90		metre		57,580.00
(d)	40 mm dia nominal bore	50.00	454.48		metre		22,724.00
(e)	50 mm dia nominal bore	50.00	566.25		metre		28,312.50
51	Providing and fixing brass bib cock of approved quality :						
	15 mm nominal bore	150.00	233.68		each		35,052.00
52	Providing and fixing brass stop cock of approved quality :						
	15 mm nominal bore	100.00	233.68		each		23,368.00
53	Providing and fixing 15mm dia. C.P.Brass Pillar taps of approved quality to wash basin (a) C. P. brass pillar tap weight more than 450 gms.	30.00	501.00		Each		15,030.00
54	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :						
(a)	25 mm nominal bore	10.00	721.46		each		7,214.60
(b)	20 mm nominal bore	10.00	631.35		each		6,313.50
(c)	32 mm nominal bore.	5.00	1017.85		each		5,089.25
(d)	40 mm nominal bore	5.00	1372.94		each		6,864.70
(e)	50 mm nominal bore	5.00	2199.09		each		10,995.45
55	Providing and fixing C.P. brass Two way angle cock/valve for basin mixer and geyser points of approved quality conforming to IS:8931						
(a)	15mm nominal bore	20.00	722.18		Each		14,443.60
56	Providing and fixing C.P. brass Angle valve for basin mixer and geyser points or as directed of approved quality conforming to IS:8931						
	15mm nominal bore	50.00	722.18		each		36,109.00

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
57	Repairing , Rewinding, Servicing of monoblock/ submercible water pumps various capacity including removing and Refixing and replacement of all the required spare parts i.e. mortar winding, capaciter, bearing etc. complete as directed by Engineer-In-Charge.						
(a)	1 to 2 H.P. Capacity	10.00	2200.00		Each		22,000.00
(b)	5 H.P. Capacity	10.00	4400.00		Each		44,000.00
58	Supplying & fixing of monoblock motor pump of 1 HP capacity of approved quality with necessary fittings, making electrical connections, testing etc. complete as directed by the Engineer In-charge	3.00	7700.00		Each		23,100.00
59	Supplying & fixing of monoblock motor pump of 2 HP capacity of approved quality with necessary fittings, making electrical connections, testing etc. complete as directed by the Engineer In-charge	2.00	8800.00		Each		17,600.00
60	Supplying & fixing of monoblock motor pump of 5 HP capacity of approved quality with necessary fittings, making electrical connections, testing etc. complete as directed by the Engineer In-charge	4.00	16500.00		Each		66,000.00
61	Providing and placing high density polyethylene water storage tanks confirming to IS 12701:1996 of required capacity , shape, colour and confirming to relevant IS with manhole lid and suitable locking arrangement including making holes for inlet & outlet and outer flow pipe and including cost of fitting testing etc. complete as directed by Engineer - in - charge.	10000.00	12.00		Ltr		1,20,000.00
62	Cleaning, washing the U/G and over head tanks of various capacities. The work cosisting cleaning of wall flooring & ceiling by means of spray gun of jet pressure pumps, also removing of all sludge / mud & chlorine deposits accumulated, in water etc. by means of pumping or manually and finally drying by industrial vaccum pump, after cleaning the anti bacterial agents are to be sprayed on all the walls floors & ceiling etc., U.V. radiation in the tank is to be followed to remove infections and flying insects etc. complete. (all labour, materials and tools - tackles)						
	100 kl X 6 times = 600 KL	600.00	100.00		KL		60,000.00
	Sanitary wares						
63	Providing & fixing White/coloured vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, i.e Consiled CP brass Flushing valve etc compleate all labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.						
(a)	Orissa pattern W.C Pan of size 580x440 mm	10.00	2622.27		each		26,222.70
64	Providing and fixing white/ Coloured vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures i.e. Jet flush / consield flush, two way Bib Cocks, Hand Shower etc. complete, including cutting and making good the walls and floors wherever required :	20.00	5013.85		each		1,00,277.00
65	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :	30.00	3289.95		each		98,698.50

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
(a)	One urinal basin with 5 litre white P.V.C. automatic flushing cistern						
66	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:						
(a)	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	15.00	4058.59		each		60,878.85
(b)	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	15.00	3823.06		each		57,345.90
67	Providing & fixing PVC Nahini trap with necessary fittings, making good the walls & floor, including cost of labour, materials etc., complete as directed. a) 100mmø	30.00	1029.00		Each		30,870.00
68	Providing & fixing glazed earthen ware gully trap 100 mm dia. including C.I. cover 250 x 200 mm & making necessary chamber 450 x 400 mm size with 10 cm C.C. solid blocks etc. complete as directed.	20.00	1320.00		Each		26,400.00
69	Providing & fixing SWR PVC (I.S.I - IS 13592) waste or vent pipe including necessary specials such as Tees, Bends, Y's Plinth offsets, Shoes, Vent cowl etc. with bracket, screws on wooden plugs fixed on wall face including filling joints with solution & cement mortar 1:2 complete as directed.						
(a)	75 mm dia. (Outer Dia)	200.00	170.00		Rmt		34,000.00
(b)	110 mm dia. (OD)	200.00	224.00		Rmt		44,800.00
70	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	50.00	262.74		each		13,137.00
71	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.						-
	10 litre capacity - coloured	20.00	1373.55		each		27,471.00
72	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
	Flexible pipe						
(a)	32 mm dia	200.00	51.50		each		10,300.00
73	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	20.00	1073.79		each		21,475.80
74	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :						
(a)	150 mm dia. R.C.C. pipe	50.00	334.29		metre		16,714.50
(b)	300 mm dia. R.C.C. pipe	200.00	554.20		metre		1,10,840.00
75	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :						
(a)	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	20.00	6843.31		each		1,36,866.20
	Demolition Works						

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
76	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	15.00	1434.44		cum		21,516.60
77	Demolishing Any kind of Masonry walls (R.R Masonry, Block Masonry etc.) work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	20.00	1220.00		cum		24,400.00
78	Dismantling doors, windows and clerestory windows (steel or wood or Aluminium) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :Of area 3 sq. metres and below	180.00	148.67		each		26,760.60
79	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	5000.00	2.28		kg		11,400.00
80	Dismantling tiled/ Kota/ Marble/ Granite floors laid in mortar upto floor six level including stacking of serviceable materials & disposal of unserviceable materials within 100 meters lead.	700.00	40.00		sqm		28,000.00
81	Dismantling/removing and cleaning of roof of slab by removing old IPS Concrete/ old water proofing tretement layer or any king of material from the top of the slab and preparing the surface for water proofing by mechanical means or by manually and disposed of the dimolished material up to 5 km or as directed by the Engineering In-charge	2500.00	45.00		sqm		1,12,500.00
	Miscellaneous Works						
82	Operating of various capacity water pumps for pumping of fresh water from under ground water tanks to overhead water tanks at various location of office buildings including operating of valves by Deputing Operator or manpower with necessary Tranportation Vehicle and communication means etc as directed by Engineer-In-Charge						
	At Following places						
	1) Nirman Bhavan	1					
	2) DLB office	1					
	3) Seva Sadan - I	1					
	4) Seva Sadan - II	1					
	5) Seva Sadan - III	1					
	6) Bunder Area Gate	1					
	7) CDC Building	1					
	8) P&C Building	1					
	Total :-	8			Location per Days		
	Hence 8 Location X 730 Days = 5840 Location per Days	5840.00	122.00				7,12,480.00
83	Deployment of Tractor with tractor trolly including labours for removing of solid waste// Garbage/Debrish material and disposing the same outside of cargo jetty area. The rates are including tractor trolly and labours, loading, unloading & lead upto 3 Km out side cargo ietty area.	100.00	607.00		Trip		60,700.00

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
84	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3 MM THICK	2500.00	384.61		sqm		9,61,525.00
85	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately)						
(a)	Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension . (Area of window above 1.75 sqm upto 2.50 sqm).	180.00	5871.30		sqm		10,56,834.00
							1,62,66,277.12
						Say	1,62,66,277.00
	I/ We am/are willing to carry out this work at _____% below The tendered rates mentioned above amount of my/our tender are put as under:-	I/ We am/are willing to carry out this work at _____% above The tendered rates mentioned above amount of my/our tender are put as under:-					
		(percentage should be written in figure and words)					
	Estimated amount put to tender Rs. _____	Estimated amount put to tender Rs. _____					
	Deduct _____% below(-) Rs. _____	Add _____% above(+) Rs. _____					
	Net Rs. _____	Total Rs. _____					
	In words (Rupees _____	In words (Rupees _____					
	_____)	_____)					

Item No.	Description	Total Qty.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
	<b>PART 'B' - CREDIT ITEM</b>						
1	Taking away the steel scrap material by contractor from site rates are including loading, unloading and all taxes.	2000.00	20.00		Kg		40,000.00
				TOTAL OF PART 'B'			40,000.00
	I/ We am/are willing to carry out this work at _____% below The tendered rates mentioned above amount of my/our tender are put as under:-			I/ We am/are willing to carry out this work at _____% above The tendered rates mentioned above amount of my/our tender are put as under:-			
				(percentage should be written in figure and words)			
	Estimated amount put to tender Rs. _____			Estimated amount put to tender Rs. _____			
	Deduct _____% below(-) Rs. _____			Add _____% above(+) Rs. _____			
	Net Rs. _____			Total Rs. _____			
	In words (Rupees _____)			In words (Rupees _____)			
	_____)			_____)			

Contractor

Dy. Chief Engineer (H)  
Deendayal Port Authority