

DEENDAYAL PORT AUTHORITY

HARBOUR DIVISION

Bill Of Quantity

Name of Work:

Maintenance contract for godown inside cargo jetty area for two years.

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
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	200.00	114.96	m3	One Cubic Metre	22992.00
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level :1:1½:3 (1 Cement: 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	200.00	4839.46	m3	One Cubic Metre	967892.00
3	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	120.00	3212.33	m3	One Cubic Metre	385480.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
4	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and excluding the cost of reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size). Foundations, footings, bases of columns, etc.	20.00	5321.40	m3	One Cubic Metre	106428.00
5	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and excluding the cost of reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size). Beams and cantilevers in plinth and foundation.	20.00	5482.52	m3	One Cubic Metre	109650.00
6	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and excluding the cost of reinforcement - above plinth level up to floor five level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).					0.00
	A) BEAMS AND CANTILEVER	5.00	6704.65	m3	One Cubic Metre	33523.00
	B) LINTEL, LINTEL BANDS, PLINTH BANDS, BED BLOCK COPPING	5.00	6642.01	m3	One Cubic Metre	33210.00
	C) COLUMN, PILLARS, POSTS & STRUSS	10.00	6921.85	m3	One Cubic Metre	69219.00
	D) CHAJJAS	10.00	6745.32	m3	One Cubic Metre	67453.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
7	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but, excluding cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand 3 graded stone aggregate 20 mm nominal size)	10.00	5821.99	m3	One Cubic Metre	58220.00
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete below plinth level & upto floor five level Thermo-Mechanically Treated bars of grade Fe-500D or more	12000.00	70.41	Kg	One Kilogram	844920.00
9	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	100.00	2,959.48	m3	One Cubic Metre	295948.00
10	Providing & laying cement concrete solid blocks 1:8:6 (machine made) conforming to relevant IS (Latest Edition) masonry 200mm thick set in cement mortar 1:6 including curing etc. complete as directed.					
	a -) plinth & foundations	90.00	5721.58	m3	One Cubic Metre	514942.00
	b) In superstructure upto floor two level.	120.00	5721.58	m3	One Cubic Metre	686590.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
11	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	50000.00	78.58	Kg	One Kilogram	3929000.00
12	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. (Structural steel to be reused / supplied free of cost by DPT)	30000.00	20.78	Kg	One Kilogram	623400.00
13	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.	15000.00	340.03	m2	One Square Metre	5100450.00
14	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					
	Corrugated serrated adjustable ridges	1200.00	301.62	Rmt	One Running metre	361944.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
15	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 : 3mm (for corrugated roof sheets)	1000.00	384.61	m2	One Square Metre	384610.00
16	Supplying & applying bituminous Putty on hooks and holes of roof and/or wall surface as directed by <u>Engineer in charge</u>	18000.00	52.99	each hole	Each Hole	953820.00
17	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and <u>dressing complete</u>	180.00	765.43	m3	One Cubic Metre	137777.00
18	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size)	1000.00	214.57	m3	One Cubic Metre	214570.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
19	12 mm cement plaster finished with a floating coat of neat cement of mix :					
	1:3 (1 cement: 3 fine sand)	6000.00	212.36	m2	One Square Metre	1274160.00
20	White washing with lime to give an even shade :					
	New work or old surface (three or more coats)	20000.00	16.98	m2	One Square Metre	339600.00
21	Finishing walls with Acrylic Smooth exterior paint of required shade :					
	New work or old surface (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	15000.00	118.53	m2	One Square Metre	1777950.00
22	Removing oil paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	5000.00	9.99	m2	One Square Metre	49950.00
23	Applying priming coat:With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	5000.00	38.20	m2	One Square Metre	191000.00
24	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete On steel work	10000.00	131.54	m2	One Square Metre	1315400.00
25	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,(i) Single socketed pipes. 160mm OD	200.00	276.26	Rmt	One Running metre	55252.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
26	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.	225.00	1434.44	m3	One Cubic Metre	322749.00
27	Demolishing masonry 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.	200.00	1283.24	m3	One Cubic Metre	256648.00
28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:					
	(a)A.C. sheet roofing.	9000.00	31.77	m2	One Square Metre	285930.00
29	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	30000.00	2.28	Kg	One Kilogram	68400.00
30	Surface dressing of the ground including removing vegetation and in- equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m All kinds of soil	30000.00	13.78	m2	One Square Metre	413400.00
31	Welding by gas or electric plant including transportation of plant at site etc. complete	1000.00	23.91	Cm	One Centimetre	23910.00
32	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work or old surface	1000.00	71.65	m2	One Square Metre	71650.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
33	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing with cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.	100.00	913.14	m2	One Square Metre	91314.00
34	Hire charges for a Hydraulic excavator (J.C. B.) of loading capacity 0.5 to 1.0 m3 including wages of driver , cleaner and cost of fuel, for 8 hours /day	48.00	9000.00	day	One Day	432000.00
35	Hire charges for Tractor including Trolley of loading capacity upto 5 MT including wages for driver , cleaner and cost of fuel for 8 hours day	96.00	1800.00	day	One Day	172800.00
36	Hire charges for light crane (Hydra) of loading capacity upto 5 MT including wages for driver, cleaner and cost of fuel for 8 hours /day.	48.00	4000.00	day	One Day	192000.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
37	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces),excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.63 mm thick with zinc coating not less than 275 gm/ m²	4000.00	853.41	m2	One Square Metre	3413640.00

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
38	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel roovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified	300.00	1059.33	m2	One Square Metre	317799.00

Total 26967590.00

I/we am/are willing to carry out this work at _____% above/ below (percentage should be written in figure & words). The tendered rates mentioned above amount of my/our tender are put as under.

Estimated amount put to tender Rs. _____

Deduct _____% below (-) Rs. _____

Net Amount Rs. _____

In words. (Rupees _____)

Contractor

Superintending Engineer (Harbour)
Deendayal Port Authority