

MORMUGAO PORT TRUST
ENGINEERING (CIVIL) DEPARTMENT
Tender No. CE/52-R-2/2016

Maintenance Contract for Two Years for General Civil Engineering Works in Headland(2016-18)

SCHEDULE OF QUANTITIES AND RATES

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
1	Excavation in dense or hard soil/murum etc. including removal of obstructions such as small trees, vegetation etc. and removal of excavated material upto a lead of 50m and a lift of 1.5m including refilling foundation trenches as directed. All labour and material, tools & plant etc. complete.	3.00	m3	558.00	1674.00
2	Earth work excavation in soft rock with earth pocket and boulders including removal of obstructions such as small trees, vegetation etc. refilling the trenches with suitable excavated material, and removal of unsuitable excavated material upto a lead of 50m and a lift of 1.5m as directed. All labour and material, tools & plant etc. complete.	4.00	m3	1116.00	4464.00
3	Providing plinth protection with 50mm thick in cement concrete (1:3:6) using stone aggregate 20mm nominal size including finishing smooth on top, curing, mixing, depositing etc. as directed. All labour and material, tools & plant etc. complete.	30.00	m2	281.00	8430.00
4	Dismantling and clearing of cement concrete in trap stone metal without causing any damage to the structure, clearing the dismantled materials and stacking within a lead of 100 m including cleaning surface, etc. as directed. All labour and material, tools & plant etc. complete.	8.00	m3	1815.00	14520.00
5	Dismantling doors, windows and ventilators having area not more than 3.0m ² including removal of frames, fastening etc. from masonry and stacking at places pointed out within a lead of 100m as directed. All labour and material, tools & plant etc. complete.	175.00	No	222.00	38850.00
6	Dismantling doors, windows and ventilators shutters having area less than 3.0m ² including removal of fastening etc. and stacking at places pointed out within a lead of 100m as directed. All labour and material, tools & plant etc. complete.	25.00	No	70.00	1750.00
7	Dismantling & clearing away corrugated / semi corrugated A.C sheets in roof including ridges, hips, gutters etc. & stacking the serviceable material & disposal of unserviceable material at places pointed out within a lead of 100m as directed. All labour and material, tools & plant etc. complete.	170.00	m2	78.00	13260.00
8	Dismantling of Mangalore pattern tiled roofing with	125.00	m2	94.00	11750.00
9	Stripping old cement plastering and clearing away the	300.00	m2	38.00	11400.00
10	Soling with hard laterite rubble stone of 20 cm to 30 cm	10.00	m3	1404.00	14040.00
11	Transporting and dumping surplus excavated				
(i)	Within a lead of 3.0 km	10.00	m3	135.00	1350.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
(ii)	Within a lead of 5.0 km	10.00	m3	182.00	1820.00
12	Cement concrete (1:3:6) using 20 mm graded black trap	3.00	m3	5269.00	15807.00
13	Cement concrete (1:2:4 mix) using 20mm graded trap	3.00	m3	12176.00	36528.00
14	Providing and fixing shuttering for footings, columns, etc. of any size and shape including cleaning , oiling, closing gaps, removing shuttering after concreting, provisions of necessary props, bracings,etc. as directed. All labour and material, tools & plant etc. complete.	20.00	m2	538.00	10760.00
15	Providing and fixing reinforcement with TMT/tor steel/mild steel including cutting, bending, tying grills,placing in position,holding in position during concreting,including cost of binding wire as directed. All labour and material, tools & plant etc. complete.	5.00	Q	6766.00	33830.00
16	Constructing masonry in foundation and plinth using precast cement concrete solid blocks having a crushing strength of not less than 70kg./cm2 (28 days curing) in cement mortar (1:6) including providing specially moulded blocks at junctions & corners, curing etc. as directed. All labour and material, tools & plant etc. complete.	20.00	m3	5854.00	117080.00
17	Constructing masonry in foundation and plinth using precast cement concrete solid blocks having a crushing strength of not less than 35 kg./cm2 (28 days curing) in cement mortar (1:6) including providing specially moulded blocks at junctions & corners, curing etc.as directed All labour and material, tools & plant etc. complete. as directed. All labour and material, tools & plant etc. complete.	3.00	m3	5060.00	15180.00
18	Constructing masonry in superstructure using precast cement concrete solid blocks having a crushing strength of not less than 35 kg./cm2 (28 days curing) in cement mortar (1:6) including providing specially moulded blocks at junctions & corners curing etc. as directed. All labour and material, tools & plant etc. complete.	10.00	m3	5282.00	52820.00
19	Plastering with C.M. (1:3) 15mm thick in two coats (10mm and 5mm finishing coat)for masonry works including raking our joints, hacking, cleaning and preparing the surface, scaffolding, all lifts, curing making bands, bays, chamfers, beading, fluting, etc. as directed. All labour and material, tools & plant etc. complete.	260.00	m2	282.00	73320.00
20	Plastering with C.M. (1:5) 15mm thick in two coats for external surfaces (Backing coat of 10mm & finishing coat of 5mm) including Patches, bays, bands, fluting, scaffolding and cleaning of all dirts, raking out joints, hacking, scrubbing, chamfers, beading, curing, all lifts etc. as directed. All labour and material, tools & plant etc. complete.	240.00	m2	259.00	62160.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
21	Plastering with C.M. (1:3) 25mm thick in three coats, finishing smooth, mixed with water proofing compound incl. patches, bays, bands, fluting, scaffolding and cleaning of all dirt, raking out joints, hacking, scrubbing, chamfers, beading, curing, all lifts etc.as directed. All labour and material, tools & plant etc. complete.	20.00	m2	487.00	9740.00
22	Extra for mixing waterproofing compound in plastering with c.m (1:5) 15 mm thick for item no 20.	30.00	m2	8.00	240.00
23	Providing and laying cement concrete (1:2:4) flooring using 20mm graded stone aggregate including mixing and placing of concrete, levelling, consolidating, curing, finishing the top with a floating coat of cement slurry, thread lining etc. as directed. All labour and material, tools & plant etc. complete.	7.00	m3	8943.00	62601.00
24	Rough cast plaster 20mm thick in two coats first coat with C.M. (1:3) 10mm thick and finishing coat with cement mortar (1:3) 10mm thick mixed with gravel or crushed stone 6 to 12mm graded incl. Finishing as to have rough surfaces, curing, scaffolding etc. as directed. All labour and material, tools & plant etc. complete.	30.00	m2	394.00	11820.00
25	Providing & laying interlocking concrete paving blocks of approved pattern, manufactured by "ABIDEEP" or equivalent make 60mm thick over a layer of sand cushion including spreading sand, laying the blocks to required slope, levelling, filling the joints with dry sand, providing dwarf wall around the paving area if required,cleaning the surface etc. as directed. All labour and material, tools & plant etc. complete.	10.00	m2	799.00	7990.00
26	Providing and fixing FRP doors of required size with frames of 'OM Ventures' or any other approved brand/ quality/ make and of colour/shade in single leaf with (29-30)mm thick shutter with stainless steel hinges (100x70x4)mm, 4 nos. including brass screws etc. as directed. All labour and material, tools & plant etc. complete.	10.00	m2	3833.00	38330.00
27	Supplying and fixing in position FRP Door shutters without frames "OM Ventures " make or any other approved make/quality and of approved colour, shade in single leaf with 29-30 mm thickness, including all the accessories such as C.P. brass butt hinges of size 100x70x4.0mm, minimum 3 nos. per shutter, fixed by C.P. brass counter sunk screws as approved and fixed to the door frame as specified by the manufacturer or as directed etc. complete. as directed. All labour and material, tools & plant etc. complete.	10.00	m2	3525.00	35250.00
28	Supplying & fixing asbestos cement corrugated sheets 6mm thick in roofing including cutting/mitering,drilling holes, fixing with necessary G.I. bolts, nut G.I. and bitumen washers etc. as directed. All labour and material, tools & plant etc. complete.	100.00	m2	396.00	39600.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
29	Supplying & fixing A.C. plain adjustable ridges including drilling holes, necessary G.I. holes, nuts, G.I. and bitumen washers etc.as directed. All labour and material, tools & plant etc. complete.	30.00	m	320.00	9600.00
30	Supplying & fixing corrugated translucent fibre glass sheets 3mm including cutting to required size, drilling holes and fixing with necessary 'J' bolts, seam bolts, bitumen and plain washers etc. as directed. All labour and material, tools & plant etc. complete.	40.00	m2	1036.00	41440.00
31	Supplying & erecting structural steel work with M.S. Angle/M.S. flat for roofing. All Cutting, fabricating, welding & fixing in position, painting with two coats of synthetic enamel paint over a coat of red lead primer after cleaning & preparing the surface etc. as directed. All labour and material, tools & plant etc. complete.	5.00	Q	9948.00	49740.00
32	Supplying & fixing Mangalore pattern tiles (Double inter locking Fort Brand roofing tile no.1/equivalent) in single layer over Sal/Jamba wood reepers 5 x 2.5cm including supplying & fixing ridge tiles, pointing with C.M. (1:2) and painting reepers with creosete oil etc.as directed. All labour and material, tools & plant etc. complete.	20.00	m2	1061.00	21220.00
33	Supplying & fixing Mangalore pattern tiles (ordinary Mangalore tiles) in single layer over Sal/Jamba wood reepers 5 x 2.5cm including supplying & fixing ridge tiles, pointing with C.M. (1:2) and painting reepers with creosete oil etc.as directed. All labour and material, tools & plant etc. complete.	20.00	m2	859.00	17180.00
34	Supplying & fixing G.I. eaves gutter 15cm dia using 0.8mm thick plain G.I. sheets, cutting, bending necessary brackets, seam bolts, G.I. washers & 2 coats of tarring etc. as directed. All labour and material, tools & plant etc. complete.	40.00	m	538.00	21520.00
35	Providing roofing compound to the bolt,along the cracks of sheets, joints of asbestos sheet roofing as directed. All labour and material, tools & plant etc. complete.	60.00	Kg	125.00	7500.00
36	Providing , fixing, testing of vitreous china glazed floor mounted European type water closet of size 600x410x365 with PVC Cistern , seat cover of Hindware make or equivalent make and of ivory colour or any other approved with"P/S" trap. including fittings, breaking and making good the wall, floor etc, as directed. All labour and material, tools & plant etc. complete.	4.00	no	5356.00	21424.00
37	Providing , fixing, testing of Orissa Pan of size 580x440mm with 10 ltrs. capacity PVC Cistern of Hindware make or equivalent make and of ivory colour or any other approved colour with"P trap including fittings, breaking and making good the wall, floor etc, providing and fixing PVC soil Pipe connection etc. complete. as directed. All labour and material, tools & plant etc. complete.	17.00	no	5923.00	100691.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
38	Providing and fixing 610mm (24") above floor level flat back or corner type/lipped front urinal basin 470x300x315mm high of vitreous china of approved colour with cutting and making good the wall etc . as directed. All labour and material, tools & plant etc. complete.	10.00	no	1741.00	17410.00
39	Providing and fixing wash basin 550x400mm with pedestal of constellation series of "Hindware" make or equivalent make and series of ivory colour or any other approved colour including all necessary fittings like C/P bottle trap & waste coupling of Jaquar make or equivalent , with PVC waste pipe concealed of min. 32mm dia.etc. complete, making good the wall/ floor etc. as directed. All labour and material, tools & plant etc. complete.	12.00	no	3076.00	36912.00
40	Supplying & fixing in position PVC Nahni trap of min. size 100mm (4") dia with fittings incl. Cost of labour for necessary concrete work, breaking & making good the walls, floors, providing stainless steel gratings etc.as directed. All labour and material, tools & plant etc. complete.	30.00	no	359.00	10770.00
41	Supplying & fixing 19mm dia aluminium curtain rods with coating (hollow type) and with necessary aluminium brackets fixed to wooden plugs, 2 nos. as directed. All labour and material, tools & plant etc. complete.	80.00	m	180.00	14400.00
42	providing and fixing vitreous china division plate 680mmx315mm or equivalent with making necessary wooden plugs, screws ,mortar etc.as directed. All labour and material, tools & plant etc. complete.	20.00	No	2491.00	49820.00
43	Repairs to the aluminium frame glass window including removing the glass, replacing damaged rubber beading with new rubber beading, refixing of glass to the aluminium frame, cleaning, repairs/repalcing bearings/rollers , applying sealant to the joints of aluminium and masonry,etc.complete as directed. All labour and material, tools & plant etc. complete.	30.00	nos	1000.00	30000.00
44	supply of aluminium members for replacement				
a	shutter member	30.00	m	170.00	5100.00
b	bottom frame member	30.00	m	380.00	11400.00
c	side frame member	30.00	m	325.00	9750.00
45	Repairs to the aluminium frame glass door including removing the glass, replacing damaged rubber beading with new rubber beading, refixing of glass to the aluminium frame, cleaning, providing hinges etc.complete as directed. All labour and material, tools & plant etc. complete.	10.00	nos	1535.00	15350.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
46	Providing and fixing in position anodised aluminium louvered ventilators in single vertical bays with 4.00 mm thick, 100mm wide frosted glass louvers of approved quality/make using best quality standard extra lead anodised aluminium sections comprising to IS-733, frame shall have groove to receive weather strip all round, glass louvers shall have PVC gap closing gaskets on top edge of louvers and approved through lever handle and operation fixed to outer frame and aluminium handle locking device, fixing to masonry, R.C.C. columns etc. as specified by manufacturer all gaps should be sealed with approved sealant etc including finishing and making good the surface with concrete cement mortar, touch up painting, removal of old ventilators etc. as directed. All labour and material, tools & plant etc. complete.	30.00	m2	4445.00	133350.00
47	Providing aluminium handles for the aluminium frame glass window as directed. All labour and material, tools & plant etc. complete.	70.00	nos	75.00	5250.00
48	Providing 5.00 mm thick glass for the aluminium frame window/door, including removing the damaged glass, replacing the damaged beading, sealing the gaps in between wall and window frame using M seal, touch up painting as directed. All labour and material, tools & plant etc. complete.	10.00	m2	2170.00	21700.00
49	Providing 4.00 mm thick pin headed glass for louvered	30.00	m2	385.00	11550.00
50	Providing & fixing in position anodised aluminium sliding	30.00	m2	4563.00	136890.00
51	As detailed in item no.47 but for sliding windows to suit three track sliding as directed. All labour and material, tools & plant etc. complete.	20.00	m2	5046.00	100920.00
52	Providing and fixing ornamental grills of approved pattern using ms flat 25 x 3mm or any other sections including welding,grinding,cutting, drilling holes, fixing with counter sunk screws etc. as directed. All labour and material, tools & plant etc. complete.	500.00	kg	156.00	78000.00
53	Providing and fixing the following heavy duty brass fixtures/anodised aluminium/Stainless steel as specified and hardware to the wood work as directed including required screws & other fastening as directed. All labour and material, tools & plant etc. complete.				
(i)	Plate type hooks and eye 10cm	30.00	nos.	27.00	810.00
(ii)	Plate type hooks and eye 15cm	40.00	nos.	40.00	1600.00
(iii)	tower bolts- 25cm long	40.00	nos.	132.00	5280.00
(iv)	Door latches- 30cm long	50.00	nos.	160.00	8000.00
(v)	anodised aluminium Tower bolt 15cm long	70.00	nos.	88.00	6160.00
(vi)	anodised aluminium Door latch 20cm long	65.00	nos	138.00	8970.00
(vii)	anodised aluminium Baby latch (65mm x 12mm)	75.00	nos.	88.00	6600.00
(viii)	anodised aluminium "D" type door handle 10cm long	125.00	nos	73.00	9125.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
(ix)	S.S. Butt hinges 100 mm x 70mm x 4.0 mm	80.00	nos.	77.00	6160.00
(x)	S.S. Butt hinges 75mm x 40 x 2.5mm	50.00	nos	61.00	3050.00
(xi)	S.S. Butt hinges 50mm x 37 x 1.5mm	30.00	nos.	50.00	1500.00
(xii)	anodised aluminium Hasp & Staple 10 cm/7.5cm long	110.00	nos	62.00	6820.00
54	Providing & fixing night latch Godrej make 7 levers with accessories and removing & handing over the existing accessories to the Department as directed. All labour and material, tools & plant etc. complete.	10.00	No	1106.00	11060.00
55	Replacement of magnetic door stopper of approved pattern from the door stopper etc..as directed. All labour and material, tools & plant etc. complete.	30.00	No	124.00	3720.00
56	Supply of Labours including necessary minor tools and plant for execution of maintenance works in the Port as directed. All labour and minimum essential tools etc. complete.				
A	Skilled Labour				
(i)	Aluminium fitters	45.00	nos	500.00	22500.00
(ii)	Fitters/Plumber/mason/carpenter	400.00	nos	450.00	180000.00
B	Unskilled Labour				
(i)	Male coolies/Female Coolies	600.00	nos	325.00	195000.00
57	Attending to rolling shutter of size 3mX2.5m of by removing top cover, cleaning, spring tensioning, repairing, complete overhauling, greasing and refitting etc. as directed. All labour and material, tools & plant etc. complete.	20.00	nos	4000.00	80000.00
58	Supplying & fixing netlon mesh for windows with ventilators, doors, etc. with Velcro tape including providing beading wherever required including removing of old netlon, wire mesh, etc. as directed. All labour and material, tools & plant etc. complete.	100.00	m2	415.00	41500.00
59	Providing & fiixing nylon mesh fly proof shutter below cooking platform with sal wood frame 75 x 50mm sal wood shutter 30mm thick including all oxidised iron fittings such as butt hinges 75 x 47 x 1.7mm, 4 nos. as directed. All labour and material, tools & plant etc. complete.	20.00	m2	4854.00	97080.00
60	Supplying & fixing in position windows having two or more shutters without ventilator panelled and glazed with 3 mm thick glass panes with 40 mm thick sal wood shutter with all oxidised iron fittings like but hinges 4 nos 100x58x1.8mm size screwed to frame & embedded in cc (1:3:6) block, all putty, beading etc. including necessary painting (primer and two coat of synthetic enamel paint) as directed. All labour and material, tools & plant etc. complete.	90.00	m2	3236.00	291240.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
61	Providing SS wiremesh to the ventilators and kitchen cabinets with necessary aluminium beading including nailing/screwing to prevent entry of snakes, Squirrels, rodents reptiles inside the qtr as directed. All labour and material, tools & plant etc. complete.	130.00	m2	800.00	104000.00
62	Dismantling dado/floor tiles laid in cement mortar including stacking of serviceable items & disposal of unserviceable materials as directed. All labour and material, tools & plant etc. complete.	50.00	m2	35.00	1750.00
63	Providing flooring ceramic tiles 1st quality of approved mke laid over 12mm thick C.M. (1:3) including cleaning, curing etc. as directed. All labour and material, tools & plant etc. complete.	65.00	nos	865.00	56225.00
64	Providing skirting with glazed tiles first quality laid over 10mm thick C.M. (1:3) including cutting tiles, pointing, providing specials, curing, cleaning etc. as directed. All labour and material, tools & plant etc. complete.	60.00	m2	1107.00	66420.00
65	Supplying and fixing panelled/ panelled and glazed door with sal wood frame 100X60mm & 40 mm thick nandi wood shutter with oxidised iron butt hinges 4 nos. of size 100x58x1.8mm ms hold fast 40mmx 25 cm long 6 nos., embedded in cc (1:3:6) blocks, 16mm dia m.s. bottom pins including necessary painting (primer and two coat of synthetic enamel paint) as directed. All labour and material, tools & plant etc. complete.	30.00	m2	4438.00	133140.00
66	Supplying and fixing in position panelled/ panelled and glazed shutters for doors, windows etc. with 40mm thick sal wood scantling and 3mm thick plain glass panes as directed. All labour and material, tools & plant etc. complete.	55.00	m2	3236.00	177980.00
67	Supplying and fixing shutters for ward robe with block board shutters of 19mm thick both side decorative including providing 2 nos. stainless steel hinges (50x37x1.5mm), cupboard hook etc. as directed. All labour and material, tools & plant etc. complete.	85.00	m2	2961.00	251685.00
68	providing wood work in frames of doors, windows, ventilators etc. with well seasoned sal wood including ms hold fast 40mmx 25 cm long 6 nos., embedded in cc (1:3:6) blocks, 16mm dia m.s. bottom pins. including necessary painting (primer and two coat of synthetic enamel paint) as directed. All labour and material, tools & plant etc. complete.	5.00	m3	91229.00	456145.00
69	Supplying and fixing flush door shutters 25mm thick both sides commercial faced including providing 4 nos. S.S. Hinges (100 x 70 x 4)mm minimum size teak wood beading patties, brass screws, including necessary painting (primer and two coat of synthetic enamel paint) as directed. All labour and material, tools & plant etc. complete. (Old fittings like mortice lock, safety chains, etc. to be refitted to the new door).	40.00	m2	3231.00	129240.00

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
70	Supplying and fixing flush door shutters 35mm thick bothsides commercial faced including providing 4 nos. S.S. Hinges (100 x 70 x 4)mm minimum size teak wood beading patties, brass screws , including necessary painting (primer and two coat of synthetic enamel paint)as directed. All labour and material, tools & plant etc. complete. (Old fittings like mortice lock, safety chains, etc. to be refitted to the new door).	10.00	m2	4886.00	48860.00
71	Supplying and fixing flush door (main door) of marine solid core 35mm thick both sides teak faced including providing 4 nos. S.S. Hinges (100 x 70 x 4)mm minimum size teak wood beading patties, brass screws , polishing etc. as directed. All labour and material, tools & plant etc. complete. (Old fittings like mortice lock, safety chains, etc. to be refitted to the new door).	25.00	m2	4900.00	122500.00
72	Providing bituminous macadam premix for pothole having a consolidated thickness of 50mm using 25mm graded trap metal as per IRC standard and paving bitumen of 80/100 including premixing, spreading, compacting with necessary camber, gradient etc. but excluding providing a seal coat. as directed. All labour and material, tools & plant etc. complete.	50.00	m2	552.00	27600.00
73	Providing 2 legged shear connector of 8 mm tor steel with each leg of 10 cm length @ 10 cm c/c spacing including drilling and grouting with HIT -MM compound of Hilti including all labour tools & plant etc. complete.	100.00	No	135.00	13500.00
74	Supplying of following material at Headland.				
a	Fosroc Nitozinc primer	5.00	L	1700.00	8500.00
b	Fosroc Reebakleen RR	3.00	L	600.00	1800.00
75	Supply of chemical 'Shaliurethene LM' of STP make including transporting at work spot (excluding application). All labour & materials transport involved in supply, etc. complete.	600.00	kg	575.00	345000.00
				Total	4655771.00

Total Rs. 46,55,771 /-

"A" Total =Rs.46,55,771.00

Total amount in words (Rupees Forty six lakhs fifty five thousand seven hundred seventy one only) excluding service tax.

Note: Contract period is two year hence work carried out after one year i.e. the work awarded after one year will escalated at 5% on the quoted price.

1. ADD _____% (IN FIGURES)

In words _____

Over the above amount at "A" i.e Rs. _____

OR

I.No.	Description of work	Unit of Qty	Qty.	Rate	Total Amount
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2. DEDUCT _____ % (IN FIGURES)

In words _____

From the above amount at "A" i.e. Rs. _____

3. Total Quoted Tender Amount inclusive of Sales & General Taxes and excluding Service Tax in figure-

in words Rupees _____
 _____ Only.

TENDERERS SHOULD SCORE OUT EITHER "ADD" OR "DEDUCT" AS THE CASE MAY BE"

NOTES:

1. Tenderers should score either "ADD" or "DEDUCT" as the case may be.
2. Tenderers are advised in their own interest to inspect the site before tendering.
3. The quantities given above in the schedule of Quantities and Rates are approximate and are furnished for the guidance of the tenderers.

Witness's: _____

Signature: _____

Name : _____

Address: _____

Signature: _____

Name: _____

Address: _____

Tel No: _____

Mobile No: _____

Tel No: _____

Mobile No: _____

Date: _____