



**MORMUGAO PORT TRUST**  
**ENGINEERING (CIVIL) DEPARTMENT**

**TENDER NO.CE/90/2016**

**Annual rate contract for replacing damaged waste water pipes and works pertaining to sewer line for Port area Headland and Vasco (2016-17).**

**COVER NO. 2 (PRICE BID)**

1. Directions to Tenderers for filling in the Schedule of quantities & rates
2. Schedule of Quantities & Rates



**MORMUGAO PORT TRUST**  
**ENGINEERING (CIVIL) DEPARTMENT**

**Tender No.CE/90 /2016**

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**DIRECTIONS TO TENDERERS FOR FILLING  
THE SCHEDULE OF QUANTITIES & RATES.**

1. Tenderers are required to fill in their percentage rate at the end of the Schedule of Quantities & Rates, in the space provided for the purpose and unless this is done, their tender will not be considered. Only one percentage rate on all Rates of Schedule of Quantities & Rates shall be named.
2. The Percentage Rate inserted shall hold good for all works under this contract, without reference to quantity or location of the work or the variation in the estimated quantity. The works have to be carried as per the specific work orders issued time to time and the completion period mentioned there in.
3. Quantity of each item of work mentioned in the Schedule, should be noted and the item rate worked out carefully, having regard to the specifications before submitting the tender, as no variation in rates etc. will be allowed on any ground such as mistake or misunderstanding etc. after the tender has been submitted. The percentage rate, above or below the Schedule/Estimated rate, indicated at the end of the Schedule of Quantities & Rates, will apply to each item, of the tender and any excess in the item that may be directed to be executed by the Chief Engineer.
4. Tenderers are requested to note that though the contract is for item rate, they are required to add or deduct the amount due to this percentage, as the, case may be and work out the final figures(amount of their tenders), at the end of the Schedule of Quantities & Rates.
5. The Percentage Rate should be legibly written in figures as well as in words, in the space provided for Erasures or corrections in figures or in words, without Tenderers initials, will render the tender liable for rejection.
6. Rates and prices to be inclusive.  
The rates entered in the Schedule of Quantities by the contractor shall include the provision of all supporting special equipment/safety equipments, labour of required skill, supervision, materials, erection, overheads and profits, watch and ward, insurance charges, during execution and every incidental and contingent costs and charges, whatsoever, including income tax, sales tax on works contracts, but excluding service tax if any etc. for compliance with conditions of contract and specification.

**CHIEF ENGINEER**

**MORMUGAO PORT TRUST**  
**ENGINEERING (CIVIL) DEPARTMENT**

**Tender No.CE/90 /2016**

**Annual rate contract for replacing damaged waste water pipes and works pertaining to sewer line for Port area Headland and Vasco (2016-17).**

**SCHEDULE OF QUANTITIES AND RATES**

Item No.	Description of Item	Unit	Quantity	Rate		Total Amount
				Per	Amt	Rs.
					Rs.	
1	Dismantling AC/CI/PVC rain water pipe/sewer pipes ( vertical pipes)with fittings and clamps including stacking within a lead of 2 km. All Tools,plant, labour and material etc. complete	Metre	250.00	M	35.00	8750.00
2	Providing and laying PVC soil pipes 8 "( 200mmdia Heavy) including all specials, making joints water tight with required solution, cutting & fixing to required lines & levels to inspection chambers, making good the chambers, dismantling of old stoneware/pvc pipes,excavation in hard murrm, soft rock, hard rock etc.upto a depth of 50 cms. All Tools,plant,Labour & materials etc complete.	Metre	30.00	M	1455.00	43650.00

3	Providing and laying PVC soil pipes 6 " dia ( Heavy) including all specials, making joints water tight with required solution, cutting & fixing to required lines & levels to inspection chambers, making good the chambers, dismantling of old stoneware/pvc pipes , excavation in hard murum, soft rock, hard rock etc. up to a depth of 50 cms. All Tools, plant, Labour & materials etc complete.	Metre	150.00	M	915.00	137250.00
4	Providing & fixing PVC down take pipe for rain water & waste water 110 mm dia (medium) with necessary specials such as bends , shoes etc including making joints water tight with required solution & providing & fixing necessary PVC holder bat clamps, cutting & making good the walls.( At any height and level inclusive of all scaffolding costs etc). All Tools, plant, labour & materials complete	Metre	150.00	M	448.00	67200.00
5	Providing and laying PVC soil pipes 4 " dia ( Heavy) including all specials, making joints water tight with required solution, cutting & fixing to required lines & levels to inspection chambers, making good the chambers, dismantling of old stoneware/pvc pipes. Excavation for laying of pipe line will be considered in item prescribed for excavation. All Tools, plant, labour & materials complete.	Metre	150.00	M	496.00	74400.00

6	Providing & fixing PVC soil pipes 100 mm dia (heavy) on wall / vertical surfaces including all specials required making joints water tight with required solution, PVC holder bat clamps, cutting & fixing to the wall All tools & Plants ,labour and material etc. complete	Metre	150.00	M	554.00	83100.00
7	Providing & fixing PVC soil pipe 65mm dia heavy on walls ,vertical and horizontal surfaces including all specials required making joints water tight with required solution, PVC holder/ clamps. All tools & Plants ,labour and material etc. complete	Metre	50.00	M	376.00	18800.00
8	Providing & fixing PVC SWR pipes 4kg/cm <sup>2</sup> , 300 mm dia (heavy) on horizontal surfaces etc. including all specials required making joints water tight with required material, including excavation in ordinary soil, dense/hard murrum etc, All tools & Plants ,labour and material etc. complete. ( For main line feeding STP)	Metre	15.00	M	5749.00	86235.00
9	Providing and constructing inspection chamber of size(40X40X 80) cms (inside) with 20 cm thick cc block masonry in CM(1:6) plastered with CM(1:5) including supplying &					

	fixing in position precast RCC cover slabs for inspection chambers (1:2:4) mix of size(0.50X0.50X0.10 )m with minimum reinforcement of 60 kg/m <sup>3</sup> (tor steel confirming to IS:1786) including placing in position, sealing of joints etc with cement mortar etc --All tools & Plants ,labour and material etc. complete	Each	10.00	Each	4635.00	46350.00
10	Constructing extra depth of masonry or reduction in depth in unit of 10 cms for a chamber size (40X40X80) cms as detailed in item 7 above in hard murrum....All tools & Plants ,labour and material etc. complete	10 cm	5.00	50 cm	391.00	1955.00
11	Providing and constructing inspection chamber of size (75X75X80) cms (inside) with 20 cm thick cc block masonry in CM(1:6) plastered with CM(1:5) , including supplying &					
	fixing in position precast RCC cover slabs for inspection chambers( 1:2:4) mix of size 0.90X0.90X0.10)m with minimum reinforcement of 60 kg/m <sup>3</sup> (tor steel confirming to IS:1786) including placing in position, sealing of joints with cement mortar etc. -All tools & Plants ,labour and material etc. complete	Each	5.00	Each	9022.00	45110.00
12	Constructing extra depth of masonry or reduction in depth in unit of 10 cms for a chamber size (75X75X80) cms as detailed in item 7 above in hard murum....All tools & Plants ,labour and material etc. complete	10 cm	2.00	20 cm	635.00	1270.00

13	Supplying & fixing in position PVC Nahni trap 100 mm dia with fittings, PVC gratings etc...including dismantling for removing the existing one and making good the surface. All tools & Plants ,labour and material etc. complete	Each	5.00	Each	359.00	1795.00
14	S/F Indian pattern WC 580 mm (23") size with footrest, glazed p trap, including dismantling existing WC Demolishing & clearing of cement concrete in trap stone, Plastering with CM (1:3) 15 mm in two coats to internal surfaces, Filling the pit portion around the WC & outlet pipe etc ,Floor finishing with CM(1:3),15 mm thk avg to make water tight including mixing, finishing...All tools & Plants ,labour and material etc. complete	Each	5.00	Each	5923.00	29615.00
15	S/F PVC flushing cistern 10 litres capacity with all fittings including dismantling existing flushing cistern and connecting inlet& outlet pipes. All tools, plant, labour & material etc. complete.	Each	2.00	Each	3174.00	6348.00
16	S/F approved make/ quality European type WC of vitreous china (650X350X400)mm, low level, flushing cistern of approved make, seat cover etc ...including dismantling existing one and connecting all inlet& outlet connections etc All tools & Plants, labour and material etc. complete	Each	2.00	Each	7745.00	15490.00
17	Providing flooring with approved quality, shade, pattern ceramic tiles laid over 12mm thick C.M. (1:3) including cleaning curing etc. All tools & Plants, labour and material etc. complete.	Square Metre	5.00	Square Metre	865.00	4325.00

18	Excavation in dense or hard soil/murram etc with earth pockets and boulders including removal of obstructions with a lift of 1.5 mtrs and shifting the materials of excavated within 50 mtrs lead. All tools & Plants ,labour and material etc. complete	Metre Cube	20.00	Metre Cube	558.00	11160.00
19	Excavation in hard,laterite boulders including removal of obstructions with a lift of 1.5 mtrs and shifting the materials of excavated within 50 mtrs lead. All tools & Plants ,labour and material etc. complete	Metre Cube	3.00	Metre Cube	1877.00	5631.00
20	Plastering with CM(1:3), 15 mm thk (av) including finishing smooth with cement slurry, clearing the site, curing etc. All tools & Plants, labour and material etc. complete	Square Metre	50.00	Square Meter	220.00	11000.00
21	Supplying of labour for a day(8 hrs) to carry out the work given by the Port representatives in the entire Port area---All tools & Plants ,labour and material etc. complete					
a	Mason with all tools of mason works	Day	10.00	Per Day	450.00	4500.00
b	Male khalasee /coolie with all tools of excavation such as pick-axe, spades, pans, chisels, wood cutter( coitha)	Day	80.00	Per Day	350.00	28000.00
22	Supplying shed fitter with 2no mazdoor along with necessary tools such as jhula with ropes, cutting equipments, acid etc for removal of wild growth over the sewer down take pipelines, chajjahs etc at any height (G+1, G+2,G+3) Bldgs and any other work of repair to sanitary down take pipes. ( Safety of workers to be given utmost priority)--All tools & Plants, labour and material etc. complete .	Day	60.00	Day	1659.00	99540.00



23	Supplying & fixing in position precast RCC cover slabs for inspection chambers (1:2:4) mix of size (0.95X0.95X0.075)m with minimum reinforcement of 60 kg/m <sup>3</sup> (tor steel confirming to IS:1786) including placing in position, sealing of joints with cement mortar etc. -All tools & Plants ,labour and material etc. complete	Cubic Metre	1.00	Cubic Metre	12176.00	12176.00
24	Transporting and placing in RCC cover slab of any size and shape in position, sealing of joints of chamber to make it water tight etc with cement mortar etc --All tools & Plants ,labour and material etc. complete	Each	40.00	Each	269.00	10760.00
25	Providing and fixing nylon mesh (with 02 layers)to the vent pipes of sewer pipeline including cutting , tying with GI binding wire, with minimum size of nylon mesh 0.40X0.40 m etc.--All tools & Plants, labour and material etc. complete.	Nos	50.00	nos	33.00	1650.00
26	Clearing of sewer line of various size by deputing 1no. Sanitary sweeper with 1no.mazdoor daily and disposing of waste materials with in a lead of 100.00 m etc. including sealing of chambers and curing etc. at Headland area & Vasco office area All tools & Plants ,labour and material etc. complete.	Day	296.00	Day	909.00	269064.00
27	Desludging of septic tank including lifting of cover slab, loosening the hardened sludge by adding water transporting the sludge & other waste materials in sewage tanker, including taking out the sludge by vaccume cleaner attached with tanker, disposing the same, cleaning the tank and placing back the cover slab, sealing the joints etc. All tools	Nos	6.00	Nos	4700.00	28200.00

	plants, labour and materials etc. complete.(each trip to be considered as Nos)					
28	Replacing boulders of existing soak pit with new boulders of size 15 to 25 cm including dismantling existing PCC, removing existing bouldres disposing the same including providing PCC (1:3:6) 8cm thick on top of soak pit etc. all tools, plants, labour and materilas etc. complete.	Cubic Metre	10.0 0	Cubic Metre	1269.0 0	12690.00
29	Re-aligning the pipes including replacing clamps for PVC downtake pipes, making joints leakproof etc. All tools, plants, labour and materials etc. complete.	Metre	100. 0	Metre	86.00	8600.00
30	Constructing masonry in foundation and plinth using precast cement concrete solid blocks having a crushing strength of not less than 35kg./cm2 (28 days curing) with a mix not leaner than (1:5:10) in cement mortar (1:6) including providing specially moulded blocks at junctions & corners, curing etc. All tools &plants labour & material etc. complete.	Cubic Metre	1.00	Cubic Metre	5060.0 0	5060.00
						1179674.0
31	Taking away the dismantled retrieved CI pipes and crediting to the Port.---All tools & Plants ,labour and material etc. complete	Metre	210. 0	Metre	8.65	-1816.50
<b>TOTAL</b>					<b>Rs. 1177857.50</b>	

Total amount in words (Rupees Eleven lakhs Seventy Seven thousand Eight hundred Fifty Seven and paise Fifty only).

TOTAL AMOUNT OF TENDER INCLUSIVE OF S.T & G.T but excluding service tax=  
"A" = Rs.1177857.50

1. ADD \_\_\_\_\_% (IN FIGURES)

In words \_\_\_\_\_

Over the above amount at "A" i.e Rs. \_\_\_\_\_

OR

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 but excluding service tax 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: \_\_\_\_\_

Tenderer's: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name : \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

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Tel No: \_\_\_\_\_

Tel No: \_\_\_\_\_

Mobile No: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

MORMUGAO PORT TRUST

SCHEDULE

BRAND NAME MANUFACTURES NAME OF MATERIALS TO BE USED FOR THE  
WORK

Sr. No	Description of item	Brand name of be used	Remark
1.	Ready made Doom (Factory made doors)		
	a) PVC Doors	Sintex/Deco Plastica door	
	b) FRP doors	Omega/Tuflite	
2.	Flash doors	Kitply/ Anchor	
3.	Particle board	Novapan/ Bhutan/ Bison Durstuff/ Anchor/ Ecoboard / Novateak super/ Aerocon Archilam	
4.	Pinol bonded Plywood	Anchor "Super" Kitply	
5.	Prelaminated Particle Board	Navalam/ Ecoboard/ Bison panel	
6.	Laminates	Formica / Sumica	
7.	Door/ Window fixtures		
	a) Alluminium	Shakti/ Navbharat/ CIEF/ Gemini	
	b) Brass	Everite Jyoti	

8.	Water Proofing	Algiproof/ Impermo/ Sunanda- Cico No.1/ CERA/Fosrock/ Rofte	
9.	Water Proofing cement paint	Gatrucem/ Surfaced/ Nitcocem/ Truecem plus	
10.	Synthetic enamel paint	Asain Paints (Apeolite /Dulex) Johnson & Nocolsar/ Nerolace Berger	
11	OBD	Tractor /Nerolac/ Berger/ ICI	
12.	Indian Patter W.C.	Partyware/ Neyeer/ Hindustan/ Cera	
13.	European type W.C.		
14.	Urinal basin		
15.	Wash bain		
16.	PVC Flushing cistern	Partyware (Slimline)/ Commander/Master	
17.	Cast Iron	(NECO)/BIC/Kejriwal casting	
18.	UPVC soil/wate water pipes & drinking water	Prince- Finolex	
19.	C.P.V.C. pipe (Hot and cold spl. Pipe)	ASTRAL – CPVC	
20.	G.I. pipes & fixtures	Jindal/ Tata/ Zenith	
21.	C.P. Brass fitting bibcock pillar taps/ stop cock/ shower /Bottle trap etc.	Ark/Jal/Mare	

22.	Readymade HDPE water tank	Sintex/National shakti	
23.	Ceramic tiles	Spartec / Bell / Naveen / Johnson & Johnson , Regency	
24.	Glazed tiles	Jhonson & Jhonson Somania cera Khaharia	
25.	Mosaic Tiles	Basant Baba tile	
26.	Vittried floor	Jhonson & Jhonson Ball graniter/Naveen Diamotile)	
27.	Water proof tile adhesives (Fixing tile to floor and wall)	CERA adhesives / Fevimate Ball Endura	CERA BOND Adhesives (Cerabond 27,28,29) CERA BOND grout
28.	Interlocking concrete paver Blocks	Easy lock (M/s Malu Housing products, Bangalore)	
29.	Kitchen sink (stainless steel)	Nirali /Blue star/ Diamond	
30.	A.C. sheet in roofing	Everest/ Chairman/ Rameo viska/ swastick/ Roofit	
31.	Mangalore tiles	Fort Brand Aluquerque sunbrand	
32.	PVC Roofing	Galaxy )stat PVC roofing)	
33.	FRP (Polycarbonare shets)	LEXAN – GE/ Finolex	
34.	False ceiling	Gyboard Armstron meata	

		screen/ Anchor	
35.	Aluminium Sections	Indal Jindal	
36.	Plain float glass	Modi / Tata/ Asahi	
37.	Cement	ACC / Vasvadatta/ Zuari/ Rajeshree/ Bagalkot/ Panium/ L&T / Birla/ /CC Super	

Note:

“These brand are specified assuming that they are available in the market. If the tenderer finds that some of them are not available not manufactured they may mention which brands are really available and will be used by them, while quoting for the work and approval of the same shall be to discretion of the Chief Engineer.”