

MORMUGAO PORT TRUST ENGINEERING (CIVIL) DEPARTMENT

TENDER No.: CE/10/2017

Name of Work: Geo-technical Soil Investigation for Navigational Channel & Vasco Bay at Mormugao Port Trust, Goa

SECOND COVER (PRICE BID)



MORMUGAO PORT TRUST ENGINEERING (CIVIL) DEPARTMENT

NOTICE INVITING TENDER (LIMITED)

TENDER NOTICE NO.CE/N-06 /2017

TENDER No.: CE/10/2017

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Item rate tenders in the prescribed form in sealed covers (in two cover system) super scribing the Tender No. and due date and time are invited by the Chief Engineer for the above work from the shortlisted bidders as per the details given in the table below:

Cost of tender	Estimated		Submission	Opening
document	cost	From/To	on	on
EMD	Completion Time			
Rs.2500/-	Rs.73,33,000/-	13.02.2017	22.02.2017	22.02.2017
(Rupees Two		to	Upto	at
Thousand Five		22.02.2017	15.00 hrs.	15.30 hrs.
hundred only)		Upto		Technical
Rs.74,000/-	90 days	15.00 hrs.		Bid (Cover
(Rupees Seventy	including			No.I)
Four Thousand	monsoon			
only)				

Detailed tender notice along with complete tender documents can be downloaded from our website www.mptgoa.com on or before the last date of sale of tender document. Tenders are also available for sale at the Civil Engineering Department of Mormugao Port Trust.

For further details and general enquiries, prospective bidders may contact the Executive Engineer (Project I), Mr.G.R.Jirage, telephone no. 0832-2594607, mobile 9420686276 during working hours before the last date and time of sale of tender document.

Chief Engineer



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1 - Preamble to Schedule of Quantities and Rates

- 1. The Bill of Quantities must be read with the Conditions of Contract, the Specifications and Drawings and the contractor is deemed to have examined the documents and to have acquainted himself with the detailed description of the works to be done and the way in which they are to be carried out
 - The quantities set down against the items in this Bill of Quantities are an estimate of how much of each kind of work is intended to be done in the Contract and are given for the convenience of forming common basis for evaluation and comparing tenders. They are not to be taken as a guarantee that the quantities scheduled will be carried out or required.
- 3. The quantities shall therefore not be considered as representing the final measurement, it being the intention of the Contract (except where otherwise specifically stated) that all works embraced therein shall be measured up by the Engineer or his authorised representative on completion and paid for at the prices and rates entered in the Bill of Quantities by the Contractor.
- Each item in the Bill of quantities is to be priced or if any of the items is left unpriced it will be assumed that the value of the work or commitments described thereunder is allowed for elsewhere in the Bill.
- The Tenderer's attention is particularly directed to the fact that conditions of contract do NOT include a variation in price of labour or materials. This should be allowed for in the rates stated by the Tenderer in the Bill of Quantities.
- 6. The rates set down against the items are to be the full inclusive value of the work described thereunder and are to include for profit and for the cost of every description of work and materials together with all costs in connection therewith or arising from the completion of the

works as specified. They are to include (but not by way of limitation) for all labour, transport, cartage, materials, plant, equipment, floating crafts, pumps, generators, engines, lifting devices, cables, plain and perforated linings, measuring devices and taking of records, machinery and appliances, stagings, medical and welfare facilities, housing accommodation for Contractor's staff and employees fuel, water, lighting, drainage, pumping, all costs in dues, all taxes (including sales tax) unless specifically mentioned to have been excluded elsewhere in these documents, establishment charges, bond, royalties, rents, telephone services, watching and assistance, their messing, kit allowances and all contingent expenses, liabilities and responsibilities mentioned and referred to or to be inferred from the Conditions of Contract, Drawings. Specifications, Bill of Quantities or other contract Documents annexed thereto.

- 7. The Tenderer shall be deemed to have inspected the site and to have obtained on his own responsibility and at his own expense all the information which may be necessary for making his Tender.
- 8. None of the possible variation in number of grid lines shall effect either the validity of the contract or the rates quoted herein.
- 9. The Tenderer's attention is drawn to the various Clauses in the Specifications requiring him to submit with his Tender the following details:
 - a) Time to commence, time to complete on site, time to submit report.
 - b) Details of floating craft, echosounder, seismic profiler, sampling tools and procedures.
 - c) A detailed programme for carrying out the work.



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BILL OF QUANTITIES

Sr.	Description	Qty.	Unit	Rate	Amount
No.				(Rs.)	(Rs.)
01	Mobilisation of jack-up barge, personnel survey vessel, boats, positioning system, survey equipments at site to commence the survey as per specifications of the tender and all plants/ equipments including fabrication of platform mounted on crafts/launches etc and providing floating pontoons if required for supporting all equipments, machinery, etc for considering soil investigation such as boring / drilling rig, tripod, pulley, winches, hydraulic power pack, pumps, drilling accessories, geotechnical field testing kit, generator, safety provisions, etc., for considering soil investigations in offshore areas , including operator, travel cost of operator, transportation of equipment to and fro, surface transport etc. complete as per tender requirement and instructions of Engineer-in-Charge and demobilisation / dismantling the same after completion of work and taking away all equipments from site.	1	Lump		

	i) 40 % amount of mobilisation after successful completion of 1 st marine offshore borehole.			
	ii) Balance 50 % shall be paid after successful completion of total number of boreholes			
	iii) Balance 10 % shall be paid after demobilisation of plant and machinery after successful completion of entire project.			
02	Shifting and positioning the platform at first borehole and subsequently to all other boreholes including accurately mooring of craft and jacking up at each position, hire of launches, survey work etc complete.	25	Nos.	
03	Boring (4") 100 mm dia. from bed level (varying from (-) 1.5m to (-) 7m in Vasco bay & (-) 14m to (-) 16m in the navigation channel) upto rock level in Vasco bay & (-) 20m in the outer navigation channel, all types of soil including boulders, including use of all materials such as casing pipes, accessories, consumables, etc as required, carrying out SPT at every 1.50 mtr. Interval and taking undisturbed samples of cohesive soil, preparing the soil samples serially in glass/plastic jars on site and conveying the same to laboratory as directed by Engineer in charge including geo-technical logging of the samples and carrying out field tests using pocket penetrometer and vane shear etc., complete.	330	Mtr	
04	Coring 'NX' size using triple tube core barrel in weathered and unweathered basalt rock by daimond drilling machines including preservation of core boxes, taking	Γ0	Mhia	
05	core photographs, etc complete. Obtaining undisturbed soil samples (UDS) confirming to the specifications including collection and preservation of samples.	50 38	Mtr.	
06	Obtaining disturbed soil samples (DS) confirming to the specifications including collection and preservation			

	of samples.	50	Nos.	
07	Conducting standard penetration test			
	(SPT) and collecting samples as per			
	specification at every change of			
	strata at every 2m intervals or as			
	directed by the Engineer-in-charge.	50	Nos.	
08	Collection of ground water samples			
	for chemical analysis.	25	Nos.	
09	Collection of soil samples for			
	chemical analysis.	25	Nos.	
10	Providing boxes of size 1.25 x 0.55 x			
	0.15 m made out of jungle wood			
	planks (for preserving core samples)			
	with all fixtures such as handles,			
	locking arrangement, providing locks,			
	etc complete.	25	Nos.	
11	Carrying out Mechanical Analysis of			
	soil by sieve	63	Nos.	
12	Carrying out Mechanical Analysis of			
	soil by hydrometer	25	Nos.	
13	Determine Atterberg's limit of soil like			
	Plastic limit (PL) and Shrinkage limit			
	(SL)	25	Nos.	
14	Determine Specific Gravity of soil	50	Nos.	
15	Determine Bulk and dry density of			
	undisturbed soil samples (depending			
	upon the thickness of soil strata)	50	Nos.	
16	Carry out unconfined compression			
	test on remoulded clay samples	5	Nos.	
17	Carry out triaxial compression			
	test(unconsolidated undrained) on			
	undisturbed clayey sand to sandy			
	clay soil samples	25	Nos.	
18	Carry out consolidated test on			
	undisturbed soil samples wherever a			
	clayey strata of thickness more than	40	l	
10	4 mt is found	13	Nos.	
19	Carry out Natural Moisture Content			
	(NMC) of soils by over drying method	25	No.	
20	on UDS & block samples	25	Nos.	
20	Conducting Direct Shear tests	25	Nos.	
21	Conducting Free swell tests	13	Nos.	
22	Conducting chemical analysis of soil			
	to determine Chloride and Sulphate	25	Nee	
22	content	25	Nos.	
23	Conducting chemical analysis of			
	ground water to determine Chloride	25	Noc	
24	and Sulphate content & pH	25	Nos.	
24	Determine porosity of rock samples	50	Nos.	

25	Determine unconfined compressive			
	stength of soaked rock samples	50	Nos.	
26	Determine point load index of soaked			
	rock samples	50	Nos.	
27	Determine Tensile strength of rock	5	Nos.	
28	Determine Modulus of Elasticity of			
	rock samples	1	No.	
29	Prepare and supply 2 advance copies			
	of field & laboratory test results			
	together with bore log details of soil			
	investigation carried out (Interim			
	Report)	1	LS	
30	Analysis and processing all collected			
	data and preparation of report			
	printing, compiling and submission of			
	4 copies of final report, and			
	preparation of High density diskettes			
	of data and report drawings on			
	AutoCAD in all respects as per tender			
	specifications and instructions of the			
	Employer.	1	LS	
	. ,			
	GROSS TOTAL in figures			
	GROSS TOTAL in words including			
	all applicable taxes but			
	excluding service tax			

I/ We certify that I/we have written the unit rates in figures and words.

Name and address of the Tenderer

Signature of the Tenderer

Note: Tenderers should quote on item rate basis and should inspect the site to ascertain for themselves the nature and extent of work involved and also contain all clarifications they may require before filling in the tender. The quantities mentioned in the schedule of quantities are approximate and may vary as per site condition. **Service Tax as applicable shall be payable as extra.**