

## COCHIN PORT AUTHORITY

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Tender No: T10/T-1966/2022-C

Name of Work : CONDUCTING GEOTECHNICAL INVESTIGATION FOR THE PROPOSED SHED FOR GOI IN THE DEVELOPED LAND AT SOUTH END OF W/ISLAND IN COCHIN PORT

SCHEDULE - "II"- SCHEDULE OF QUANTITIES OF WORK TO BE DONE ON CONTRACT

Name and Address of the Vendor:

Sl. No.	Sub- heads and items of work	Unit	Approximate Quantity	Departmental Rate/ unit Price (Rs)	Departmental Rate in Words	Departmental Amount in Rs.	Departmental Amount in Words
1	<i>Field Investigations - Taking bore hole data:</i>						
1.1	Locating / shifting the equipments and accessories from one location to another and fixing and setting up the equipment at the location including cost of materials, consumables, labour etc., complete on land	Each	3	25,000.00	Rupees Twenty Five Thousand Only	75,000.00	Rupees Seventy Five Thousand Only
1.2	Boring with bailer/rotary drilling equipment using casing for initial depth, and then bentonite slurry to retain sides through sand, silt and clay, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete.					-	
a	From ground level to (-) 20m depth	Metre	66.00	3,000.00	Rupees Three Thousand Only	1,98,000.00	Rupees One Lakh Ninety Eight Thousand Only
b	From (-)20m to (-)40m depth	Metre	60.00	3,750.00	Rupees Three Thousand Seven Hundred Fifty Only	2,25,000.00	Rupees Two Lakh Twenty Five Thousand Only
c	From (-)40m to (-)60m depth	Metre	60.00	4,500.00	Rupees Four Thousand Five Hundred Only	2,70,000.00	Rupees Two Lakh Seventy Thousand Only
1.3	Collect and preserve disturbed samples as per specifications, hand over them to the department / at place as pointed out by the Engineer-in-Charge in well sealed condition or transport to the laboratory	Each	30.00	125.00	Rupees One Hundred Twenty Five Only	3,750.00	Rupees Three Thousand Seven Hundred Fifty Only
1.4	Recover and preserve undisturbed samples with appropriate type of piston sampler, preserve and transport the samples with tubes in a well sealed and packed condition as specified and as per instructions of the Engineer-in-charge to the laboratory	Each	66.00	350.00	Rupees Three Hundred Fifty Only	23,100.00	Rupees Twenty Three Thousand One Hundred Only
1.5	Carrying out the Standard Penetration tests in bore holes as specified and as per the instructions of the Engineer-in-Charge including supply of all tools, plants, labour etc. complete and submit the data with a report to the department.	Each	66.00	300.00	Rupees Three Hundred Only	19,800.00	Rupees Nineteen Thousand Eight Hundred Only

1.6	Carrying out in-situ vane shear tests as per specifications and directions of the Engineer-in-charge including supply of all tools, plants, labour etc complete and submit the data with a report to the department.	Each	30.00	4,300.00	Rupees Four Thousand Three Hundred Only	1,29,000.00	Rupees One Lakh Twenty Nine Thousand Only
1.7	Collect water samples from bore holes as per specifications and directions of the Engineer-in-Charge and transport the same to laboratory.	Each	3.00	650.00	Rupees Six Hundred Fifty Only	1,950.00	Rupees One Thousand Nine Hundred Fifty Only
2	<b>Laboratory Tests</b> : Conducting laboratory tests on soil samples collected as per item no. 1.4 and 1.5 and water samples as per item no. 1.8 above					-	
2.1	Natural moisture content in the laboratory	Each	66.00	500.00	Rupees Five Hundred Only	33,000.00	Rupees Thirty Three Thousand Only
2.2	Wet and dry density at the field laboratory	Each	66.00	500.00	Rupees Five Hundred Only	33,000.00	Rupees Thirty Three Thousand Only
2.3	Specific Gravity tests	Each	66.00	500.00	Rupees Five Hundred Only	33,000.00	Rupees Thirty Three Thousand Only
2.4	Particle size analysis by sieve/hydrometer analysis	Each	66.00	500.00	Rupees Five Hundred Only	33,000.00	Rupees Thirty Three Thousand Only
2.5	Unconfined compression tests on selected UDS in the laboratory	Each	66.00	500.00	Rupees Five Hundred Only	33,000.00	Rupees Thirty Three Thousand Only
2.6	Direct shear tests on sandy samples	Each	9.00	750.00	Rupees Seven Hundred Fifty Only	6,750.00	Rupees Six Thousand Seven Hundred Fifty Only
2.7	Chemical Analysis for:						
a	Sulphate content in water	Each	3.00	425.00	Rupees Four Hundred Twenty Five Only	1,275.00	Rupees One Thousand Two Hundred Seventy Five Only
b	Sulphate content in soil	Each	3.00	425.00	Rupees Four Hundred Twenty Five Only	1,275.00	Rupees One Thousand Two Hundred Seventy Five Only
c	Chloride content in water	Each	3.00	425.00	Rupees Four Hundred Twenty Five Only	1,275.00	Rupees One Thousand Two Hundred Seventy Five Only
d	Organic content in soil	Each	3.00	425.00		1,275.00	
e	Calcium Carbonate in soil	Each	3.00	425.00	Rupees Four Hundred Twenty Five Only	1,275.00	Rupees One Thousand Two Hundred Seventy Five Only
f	Total salinity in water Sample	Each	3.00	425.00	Rupees Four Hundred Twenty Five Only	1,275.00	Rupees One Thousand Two Hundred Seventy Five Only
g	PH value	Each	3.00	425.00	Rupees Four Hundred Twenty Five Only	1,275.00	Rupees One Thousand Two Hundred Seventy Five Only
2.8	Compilation and analysis of all field data and laboratory test data and submission of report giving re-recommendations (10 copies) as per specifications and directions of Engineer-in-Charge.	LS	1.00	28,000.00	Rupees Twenty Eight Thousand Only	28,000.00	Rupees Twenty Eight Thousand Only
<b>TOTAL</b>						<b>11,54,275.00</b>	<b>Rupees Eleven Lakh Fifty Four Thousand Two Hundred Seventy Five Only</b>
<b>BIDDER'S QUOTING AREA</b>							
Sl. No.	Description of Work	Departmental Estimated Cost (Rs)	Percentage Quoted above/ below the Departmental Amount by the Bidder		Above/Below		
			* In Figures	*In Words			
	Percentage Quoted above / below the Departmental Amount shown in the above Schedule	11,54,275					
<b>* Note</b>							
1. The Bidder shall quote both in figures and words							
2. The Bidders shall also quote Above / Below in words themselves in the last column							
3. Only two decimal digits will be accepted.							