

**INVITATION OF BIDS FOR GEOTECHNICAL INVESTIGATIONS IN THE ALIGNMENT OF OUTER CHANNEL AT V.O. CHIDAMBARANAR PORT TRUST, TUTICORIN.**

**Minutes of the Pre-Bid Meeting held at the NTCPWC Conference Room on 13<sup>th</sup> February 2019 at 1500 hrs.**

**Present**

IIT Madras		Representatives of prospective bidders.
NTCPWC	IC&SR	
Prof.K.Murali	Mr.Lazar	Mr. Krishna Prasad (COMACOE)
Prof. Krishnankutty	Mr G. Srinivasan Mr. Balavendran	Mr. Karthikeyan (GEO MARINE CONSULTANTS)
Dr.V. Sriram		Mr. RM. Subramanian (SARATHY GEOTECH & ENGINEERING SERVICES)
Mr. R.Srinivasakannan		Mr. A. K. Singh (ANAND RAJ GROUP)
Dr. J. Sriganesh		

**Gist of discussions**

At the outset, the committee welcomed the representatives of prospective bidders who were present. He explained that this short-term tender was invited to carry out marine geotechnical investigations in the limited period of calm weather available in March every year, so that the estimate for the Capital dredging work could be finalized immediately thereafter and the actual dredging work taken up without delay. As such, it is necessary to complete the 30 boreholes within a fortnight from placement of work order by deploying sufficient equipment and manpower. The quoted rates should provide for mob & de-mob costs.

2. The view of some of the representatives was that use of barges/pontoons in the open sea would affect the accuracy of the measurements and collection of undisturbed samples will not be possible; a jack-up arrangement for working in water depths up to 18m would be required. This was accepted and it was agreed that an amendment for this purpose will be issued.

3 The committee also emphasized that the measurements should be accurate and within prescribed tolerance limits as per the relevant standards. There is no necessity to use CPT for the purpose of obtaining preliminary results and the Tender/BoQ provisions are adequate.

4. **Similar works** for reckoning qualifying experience would mean execution of geotechnical investigations in the past 5 years in water depths up to 10m. The bidder should enclose the certificate of experience from the client confirming that they (bidder) had satisfactorily executed work fulfilling the above criterion. The bid should contain details of equipment to be deployed, IRS classification documents, whether owned or hired, arrangements with the owners if equipment is to be hired, their immediate availability, present location, etc. An amendment will be issued covering equipment requirements.

5. The committee added that it may be necessary to carry out 20 additional borehole investigations at site under this contract. In such a case, additional time will be given for the execution of this component of work but the rates payable will remain unchanged and no separate mob & de-mob charges will be paid . A supplementary Report for this work should be submitted within 15 days of completion of work. Suitable clause will be included under the amendment.

6. The response to queries of the prospective bidders are tabulated below:

S.No	Query/ Clarification requested	IIT Response
1	<b>Review of Pontoons requirement:</b> Floating Pontoons for instrument mounting considering the Tidal Movement at the site will not permit collection of undisturbed samples.	Accepted. Reference to floating pontoon will be deleted
2	<b>Borehole Locations:</b> The distance of the farthest Bore hole from shore	The tender documents contain the relevant drawing. The distance of first bore hole from shore is 18.5 kms. Coordinates of each borehole will be provided by VOC PT during execution of work
3	<b>Penalties for Non-Completion:</b> Penalties to be mentioned	Liquidated Damages for delay in completion of work at 0.5 % per week or part thereof, subject to a maximum of 10% value of the work will be levied. Necessary clause will be added in the amendment.
4	<b>Port Permission:</b> Permission for deploying a Jack-up arrangement in the Port will be issued by DC-VOCPT under Harbour craft Rules subject to production of Classification documents from IRS or approved agency	NTCPWC, IITM will coordinate with VOCPT and facilitate permission.
5.	<b>Area for assembling &amp; dismantling the jack-up arrangements</b>	Land available as close to the site as possible will be provided by VOCPT free of cost during the contract period or approved extension. Beyond this period , charges will be levied by VOCPT as per their SoR
6.	<b>CPT Investigation:</b> Proposal for CPT	Not accepted.
7.	<b>Hard Strata:</b> Presence of Rock Layers	Fragments may be present
8.	<b>Port Operations:</b> Vessel Traffic	No Vessel traffic is expected to affect the work at site.



9.	<b>Equipment Availability Proof:</b> Proof for availability of GTI Equipments	IRS Classification documents should be submitted.
10.	<b>Drawings to be Provided:</b> Drawings need to provided other than the one in the tender	Already provided in the tender, no additional drawing.
11.	<b>Each Borehole Distance:</b> Distance between Boreholes, Channel Length, Number of bore Holes	<b>Distance between each borehole:</b> <b>Approximately: 400m.</b> <b>Channel length:</b> Approximately 18.3kms, <b>Number of Bore holes:</b> minimum 30 (may increase to 50 numbers can be consider).
12.	<b>Similar Earlier GTI Works:</b> Clarification on similar earlier works to be provided	<b>Similar works</b> for reckoning qualifying experience would mean execution of work in the past 5 years in water depths up to 10m

7. At the conclusion, the committee reiterated the need for completion of work as per the schedule envisaged in the tender considering the limited period of calm weather prevailing in March.

**Issued on approval of the committee.**