

**Centre for Industrial Consultancy and Sponsored Research (IC & SR)**

**IIT Madras**

**INVITATION FOR BID**

**Name of work: “Geotechnical Investigations alongside the existing South Coal Berth at Cochin Port Trust, Cochin, Kerala.”**

For and on behalf of IC & SR, IIT Madras, sealed tenders “Two Bid System” are invited under for the following work being executed by IIT Madras:-

1)	Description:	<b>“Geotechnical Investigations in the alongside of the existing South Coal Berth at Cochin Port Trust, Cochin, Kerala.”</b>  (Detailed scope of work as mentioned under Section-III)
2)	Specification No.	OED/2019/12/NTCPWC/KMUR
	Tender Reference No.	OED/NTCPWC/BHI/SASA/011
3)	Estimated cost of tender (ECPT)	<b>Rs. 10,50,000/-</b>
4)	Earnest Money Deposit:	<b>Rs. 55,000/-</b> in the form of DD drawn in favour of The Registrar IIT Madras Chennai issued by any Commercial or Nationalized bank. The DD shall be placed only in the only in the technical bid failing which the tender shall be summarily rejected.
5)	Pre Bid meeting	<b>14.03.2019 at 3.00 PM</b> <b>NTCPWC, CONFERENCE ROOM</b>
6)	Last date for Submission of Bid:	<b>3.00 PM IST on 28 March. 2019</b>
7)	Date & Place of Opening of Tender (Technical bid only )	<b>4.00 PM IST on 28 March. 2019</b> <b>NTCPWC, New Academic complex-6th Floor, IIT, Madras, Chennai-36.</b>  If the due date fixed for submission / opening of the tender happens to be a

		<p>holiday, the tender shall be opened at the same time on the next working day.</p> <p>On the day of opening only the main cover and the Technical Bids will be opened in the presence of the tenderers who wish to participate and the financial bids of all the bidders will be kept in a cover unopened and sealed.</p>
8)	Validity of offer:	90 days from the date of opening.
9)	Method of submission of tender:	Two bid system (Technical and Financial bid)
10)	Technical Clarification to be obtained from:	Email.: <a href="mailto:ntcpwc@iitm.ac.in">ntcpwc@iitm.ac.in</a>
11)	Cost of Tender document	Nil
12)	Tender Inviting Authority:	<p><b>Prof. Sannasiraj,</b></p> <p><b>Dept. of Ocean Engineering</b></p> <p><b>IIT Madras,</b></p> <p><b>Chennai- 600 036, Tamil Nadu</b></p>
13)	<b>Important Instructions</b>	<p><b>Bidders shall note that their offer should be only quoted in the BoQ attached to the tender and should be without any alterations, additions or deletion. In case the BoQ is found to be altered , the tender will be considered as defective and is liable to be rejected</b></p>

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**SECTION -I**  
**INSTRUCTION TO BIDDERS**

**1.1 General:**

Sealed competitive bids under "Two bid system" are invited for the **“Geotechnical Investigations in the alongside of the existing South Coal Berth at Cochin Port Trust, Cochin, Kerala”**.

**1.2 Scope of work:**

Detailed scope of work is elaborated under Section-III of this document

**1.3 Cost of Tender document : Nil**

**1.3.1 Estimated cost of Tender : Rs. 10,50,000/-**

**1.4 EARNEST MONEY DEPOSIT (EMD) : 55,000/- (Rupees fifty five thousand only)** in the form of DD drawn in favour of “The Registrar, IIT Madras, Chennai” issued by any Nationalized / or commercial bank. The D.D shall be submitted along with the technical bid only. Failing which the tender shall be summarily rejected.

**1.5 Schedule date for Receipt and Opening of Bids:**

a) Last date and time for receipt of bids: **2.00 PM IST on 28 March. 2019**

b) Date and time for opening of bids : **4.00 PM IST on 28 March. 2019**

**Note: If the above due date falls on a holiday, the schedule times for (a) & (b) above shall be the same time on the subsequent working day.**

**1.6 Submission of Tender:**

**1.6.1** Tender should be furnished in sealed cover, super-scribed as **“Geotechnical Investigations in the alongside of the existing South Coal Berth at Cochin Port Trust, Cochin, Kerala”** and forwarded to

**Prof. Sannasiraj SA,  
NTCPWC, New Academic complex 6th Floor,  
IIT, Madras, Chennai-36**

**1.6.2** The Bidders have the option of submitting the bid either by Registered post or by Courier or in person, and it shall be ensured that the bids are received at the office of the employer indicated above, on the date and time indicated in the Sl.No.1.5 above.

**1.6.3** Bids submitted by Telex/ Fax/ Telegram/e-mail etc. will not be accepted.

## **1.7 Opening of Tender**

The tenders will be opened at 3.00 PM IST on **28 March 2019**, at the address mentioned in sl.no 6- Invitation to bid on the due date and time mentioned in the pre paragraph, in the presence of the tenderers who wish to participate in the tender opening. If the due date for tender opening happens to be a holiday, the tenders will be opened on the next working day at the same time.

On the day of opening, the main cover and the cover containing the technical bid alone shall be opened and the financial bids of all the tenderers who submitted their bid, shall be placed in a separate cover and sealed in the presence of Tenderers who participated in the Tender opening. The financial bids of only those Tenderers whose Technical offers have been accepted, will be opened at a later date under intimation to the successful bidders and also after hosting in the website. The financial bids of the bidders who fail to qualify in Technical evaluation will be returned unopened.

The representatives of the Bidders, attending the opening of tenders, should be duly authorized by the participating firm, whom they represent.

If any tenderer has doubt about the meaning of any portion of this tender and/or wish to seek any further clarifications on this Tender, they may address the Tender Inviting authority at least three days prior to the scheduled date of opening of the tender. Clarifications sought after this deadline will not be entertained.

## **1.8 Tender Inviting Authority**

Prof. Sannasiraj  
Dept. of Ocean Engineering  
IIT Madras,  
Chennai- 600 036, Tamil Nadu

**SECTION - II**  
**COMMERCIAL AND TECHNICAL CONDITIONS**

**2.1 GENERAL**

The scope of services shall be as detailed in Section - III of this tender

**2.2 LOCATION**

The project site is the South Coal berth at Cochin Port Trust, Kerala, INDIA

**2.3 COMPLETENESS OF TENDER**

All information in the bid shall be in ENGLISH only. All corrections, over typing etc. in the tender should be attested.

Tenderers are advised to send their bids sufficiently early so as to ensure that the tenders reach this office in time. Tenders though posted in time but received after the due date and time will not be considered.

The Bids submitted by the Tenderers shall be complete in all respects. The tenderers are required to furnish all details called for, under various schedules along with relevant supporting documents, wherever required, for consideration by NTCPWC. The tenders not containing the complete details as required in this document are liable to be rejected.

**2.4 PRICE**

Tenderers shall quote a FIRM price only. They shall quote rates and amounts separately for each item in the respective schedule as prescribed in the Bill of Quantities.

**2.5 VALIDITY OF TENDER**

Tenders should be valid for a period of **Ninety (90) days** from the date of tender opening. In case any bidder who quotes only a shorter validity period than that called for, their offer will be liable for rejection. In exceptional circumstances, the authority may solicit the bidder's consent to extend the period of the validity. The request and response there to in such cases shall be made in writing (including mail).

**2.6 PERFORMANCE BANK GUARANTEE**

The successful bidder shall submit Performance Bank guarantee for an amount equivalent to 5% of the value of the contract. The performance Bank Guarantee shall be furnished as per the format attached.

In case the successful bidder wishes to submit Bank Guarantee (BG) towards performance obligations viz. Performance Bank Guarantee, the BG should be routed

through Beneficiary bank to the end user bank. The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the contractor.

ONLY AFTER SUBMISSION OF PERFORMANCE SECURITY, THE CONTRACT AGREEMENT SHALL BE EXECUTED AND ANY PAYMENT UNDER THIS AGREEMENT SHALL BE RELEASED.

## **2.7 PAYMENT TERMS:-**

### **2.7.1 Payment for carrying out borehole investigation**

Mobilization and De-mobilization charges will not be paid separately and shall be included in the rate quoted for bore hole investigation works

a. 95% of the quoted rate for individual boreholes shall be released against the actual quantities of work done and balance 5% shall be released on submission of final report.

**2.7.2** Payment shall be made either by Cheque or through Bank transfer on any one of the commercial banks or their branches in India as may be decided by IC & SR from time to time. If the contractor requests for DD payment, Exchange Commission for issue of bank draft shall be to the account of the contractor

**2.7.3** Offers conforming to the above terms of payment will be preferred. The offers with any other terms of payment are liable for rejection.

## **2.8 Schedule of Submission of Report:**

- Submission of Draft report: 3 days after completion of last borehole; however intermediate reports are to be submitted on the specific direction of the Employer.
- Submission of Final Report: within 3 days from the date of acceptance of the draft report with or without comments

## **2.9 FORCE MAJEURE**

**2.9.1** Neither the Contractor nor the Purchaser shall be considered in default in the performance of its obligations hereunder if such performance is prevented or delayed for any causes beyond the reasonable control of the party affected, such as war, hostilities, revolution, riot, civil commotion, epidemic, major fires, explosions, floods, earthquakes or because of any law, order, proclamatory regulations or ordinance of Government or because of any act of God, provided notice in writing of such cause with necessary evidence that the obligation under the Contract is thereby affected or prevented or delayed, is given within 14 days from the happening of the event and in any case it is not possible to serve the notice within 14 days period, then within the shortest possible period without delay. In case the Force Majeure conditions extend



beyond a continuous period of 6 months, the Employer shall be entitled to decide the further course of action including revisions to the terms of Contract, if any.

- As soon as the cause of Force Majeure has been removed, the party whose ability to perform its obligation has been affected shall notify the other party the actual delay occurred on account of such activities.

**2.9.2** Although the time for completion of work shall be suitably extended (not exceeding the period during which the work was stopped on account of Force Majeure clause), such extension shall not result in any financial claim by the Contractor against the Employer or any account of such a delay for any other reason whatsoever.

## **2.10 TAXES**

The price quoted for each item of work shall be firm and inclusive of all costs of mobilization, labour, Material, Fuel, Transportation, consumables, demobilization and other contingent and / or incidental works required for completion of any particular item of work in all respects. The tenderer, however, quote separately the duties and taxes and / or GST as applicable. The rate quoted shall be exclusive of all duties and taxes and or GST which shall be paid by NTCPWC directly or reimbursed to the contractor at actual if they are directed to pay.

## **2.11 LIQUIDATED DAMAGES:-**

If the contractors fails to complete the work, within the period specified by the NTCPWC and / or the contractor deserted the work or delayed the work for reasons solely attributable to them, the NTCPWC shall levy the liquidated damage (not by way of penalty) at the rate of 0.5% of the total contract value per week or part thereof subject to maximum of 10% of overall contract value. If the work has been abandoned or quality of the boat supplied is not upto the satisfaction of the NTCPWC, the NTCPWC shall also reserve its rights to terminate the contract after giving 10 days notice , in addition of levying the Liquidated damage and forfeiting the performance Bank Guarantee. The decision of the NTCPWC in this regard is final and binding on the contractor.

## **2.12 JURISDICTION FOR LEGAL PROCEEDINGS**

No suit or any proceedings in regard to any matter arising in any respect under this contract shall be instituted in a Court Save in the City Civil Court of Chennai or the Courts of Small Causes at Chennai. It is agreed that no other courts shall have jurisdiction to entertain any suit or proceedings even though part of the cause of action might arise within their jurisdiction. In case any part of cause of action arises within the jurisdiction of any of the courts in Tamil Nadu and not in the courts in the Chennai City, it is agreed to between the parties that such suits or proceedings shall be instituted in a court within Tamil Nadu and no other court outside Tamil

Nadu shall have jurisdiction, even though any part of the cause of action might arise within the jurisdiction of such courts.

**2.12.1** The tenderers should clearly indicate their acceptance or otherwise to the following terms and conditions.

- Specific acceptance of Board's terms of payment.
- Board's terms of Liquidated damages for delay in completion of work.
- Validity of tender.

If no indication is given by the tenderer in his offer, it is presumed that the tenderer is agreeable to the terms and conditions of IC & SR mentioned in the specification.

The bidders shall also furnish an undertaking, as per schedule furnished in Annexure-I, in a non-judicial stamp paper of value Rs.100/- confirming to their agreement to the conditions of this Tender.

## **2.13 ARBITRATION**

Arbitration is not applicable to this contract.

## **2.14 SPECIAL CONDITIONS**

### **2.14.1 Special Conditions (Compulsory for eligibility criteria):**

- The tenderers should have completed at least three similar nature of works in the proceeding five (5) / calendar years ending 31 Dec. 2018.
- The tenderer should have completed at least one similar nature of work worth Rs. 9 Lakhs or Two similar nature of work worth of Rs. 6 lakhs in any one of the three preceding Calendar years ending 31 Dec. 2018. (Copies of proof for having completed the specified nature of work(s), duly signed by tender accepting authority, either in Original or Notarized, have to be attached in the Technical Bid).
- Contractor should have experience in executing GTI work with past 07 years and in water depth upto 10mtr. Proof should be enclosed, with technical bid.
- The bidder shall also provide proof of availability of all equipment required for carrying out the work and also furnish an undertaking that these equipment are available for immediate mobilization.

### **2.14.2 Completion period of project: 23 days**

The south west monsoon likely to set soon and swells are expected to start from May 2019. Therefore the following schedule shall be strictly complied with from the date of LOA / work order whichever is earlier.

- Mobilization and Commencement of first borehole : 10 days
- Completion of all borehole : 19 days
- Submission of draft report: within 2 days upon completion of all bore holes
- Submission of final report: within 2 days from the date of acceptance of the Draft report with or without comments.

### **2.15 DEVIATIONS IN TENDER**

Offers which conform to the specification without any deviation will be preferred. If the tenderer wishes to deviate from any of the terms and conditions, the same shall be mentioned clearly; acceptance or otherwise of the deviations shall be at the sole discretion of the Employer.

### **2.16 NTCPWC, IIT MADRAS RESERVES THE RIGHT**

- NTCPWC has the right to accept the whole or any part of the tender or partition of the quantity offered or reject it in full without assigning any reason.
- To relax or waive any of the conditions stipulated in the tender specification as deemed necessary in the best interest of the project for good and sufficient reasons.
- To revise the quantum of works/completion period of work of any or all the items covered by this enquiry during the pendency of contract and to terminate the contract in between the agreed stipulated period.

### **2.17 EVALUATION AND COMPARISON OF TENDER OFFERS**

- The evaluation of the Tender will be done as per IIT Madras guidelines for IC & SR.
- The evaluation shall include contract value of works with applicable sales/service tax, etc.,
- In case of discrepancy between the prices quoted in words and in figures, the lower of the two shall be considered.

**SECTION – III**  
**TECHNICAL SPECIFICATION**  
**SCOPE OF SERVICE**

**3.1. TITLE OF THE PROJECT WORK**

**“Geotechnical Investigations in the alongside of the existing South Coal Berth at Cochin Port Trust, Cochin, Kerala”**

**3.1.1 Introduction**

National Technology Centre for Ports, Waterways and Coasts (NTCPWC), IIT Madras, Chennai intends to conduct field study for the Geotechnical Investigations in the alongside of the existing South Coal Berth at Cochin Port Trust, Cochin, Kerala

**3.1.2 Objectives & Scope**

The project scope is to conduct Geotechnical investigations alongside in the existing South Coal Berth in Cochin Port Trust, Cochin, Kerala. The location map of the South Coal Berth are shown in Fig1.

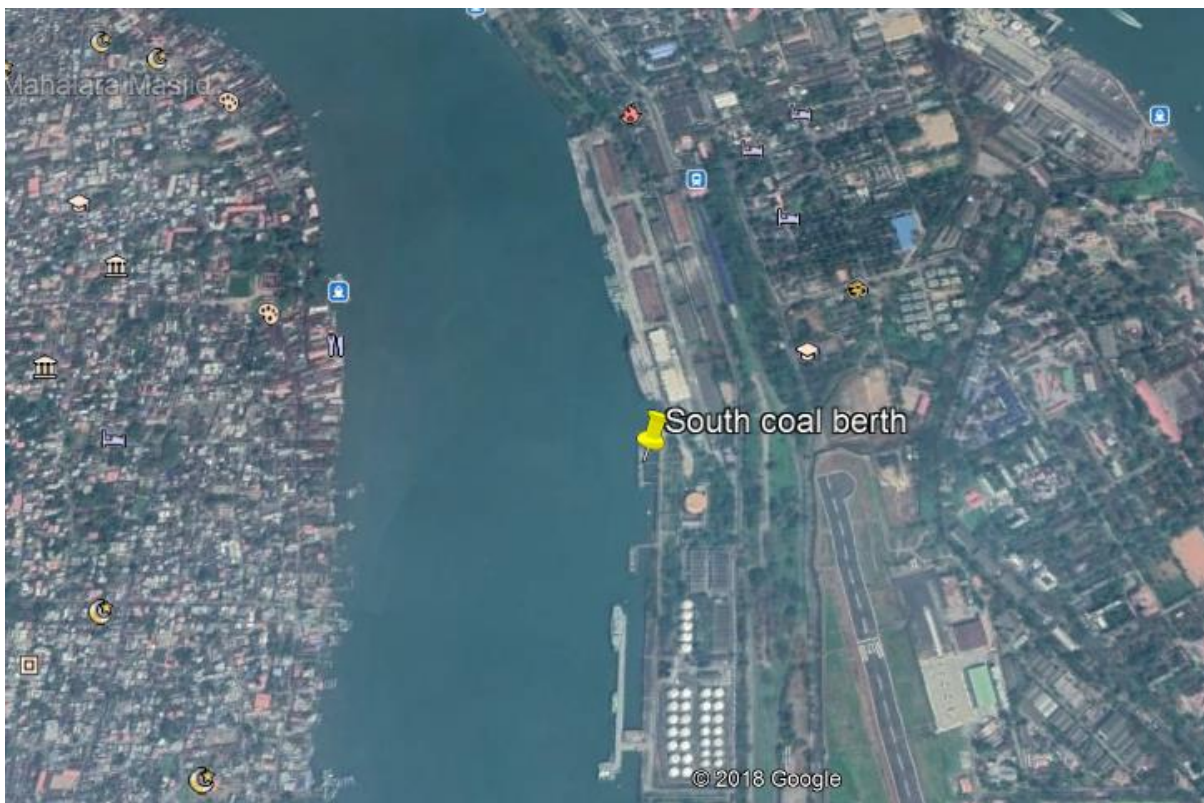


Fig 1. Location map of South Coal Berth, Cochin Port Trust, Kerala

### 3.1.3 Scope of Work

Geotechnical Investigation alongside the existing South Coal Berth in Cochin Port Trust, Cochin, Kerala is to identify the sub bottom layers seabed, soil and rock types, determining the in-situ physical and mechanical properties of the materials and sampling of materials for laboratory tests. The total number of borehole is 3 in the location indicated in Fig. 2. **The bore holes investigation has to be carried out up to 60m below CD or as directed.** The average water depth at the proposed locations of the boreholes is 12m below CD.



Fig 2. Tentative Bore hole location alongside South Coal Berth at Cochin Port Trust

**3.2** The Geotechnical investigation shall be carried out in marine environment by mobilizing suitable marine spread to conduct soil investigations, borehole, etc. The marine spread shall be in the form of jack-up rigs. No other support of lower grade is not allowed. The mobilized system shall be capable of handling men, equipment and machinery of drilling requirement and it shall have sufficient space for drilling operation. The working platform shall provide a stationary work place such that the boring operation is smooth. prior written approval should be obtained to mobilize the appropriate marine spread along with detailed methodology of exploration to satisfy the environmental conditions at the proposed site.

### **3.3. The Detailed Geotechnical Investigations inter-alia includes**

- Subsoil investigation by drilling 150 mm dia boreholes upto -8 m depth from the existing bed levels of navigational channel/basin.
- Standard testing upto 5 m depth with sample tests at 1 m interval and beyond 5 m depth, the sample tests at 1.5 m interval.
- Collection of undisturbed samples, if clay layer encountered.
- Collection of additional samples, when there is a change in strata
- Collection of additional samples during the course of investigation, if directed by the representatives of the Employer.
- Conducting any other tests that may be found necessary during the execution of the project.
- Identifying the materials viz, soil, rock, hard surface materials etc, and also their types, formation and details (locations, extent, classification, properties, etc)
- Identifying the sub bottom layers of seabed
- Identifying in-situ Physical and Mechanical properties of the seabed materials
- Sampling of Materials for Laboratory tests
- Classification of soil as per Indian Standard IS:1498-1970
- PIANC Soil Classification

#### **3.3.1. Hard Strata & Rocky region the followings also to be assessed**

- Compressive/Tensile Strength
- Density and Porosity
- Hardness and Abrasiveness
- Core Recovery and Rock Quality Designation (RQD)
- Logging and Fracture state

#### **3.3.2. Investigation techniques shall include:**

- Wide range of the sampling
  - Grab Sampler
  - SPT

- UDS
- Drilling
- Coring
- Testing techniques
- Vibro-Coring

**3.3.3.** Borehole Investigations includes:

- Particle Size Analysis and Atterberg Limits
- Density & Moisture content
- Shear Strength
- Cohesion
- Bulk Density
- SPT/N-Value

**NOTE:**

- Borehole arranged in the entire profile area in a systematic manner.
- Intermediate borehole may be ordered whenever intricacies are noticed.
- Vertical accuracy is critical and tides have to be correctly accounted to boring depths.
- Number of boreholes in rocky area will/may be decided later by the port.
- The number, locations and the depth of boreholes and the test on core samples collected may be varied depending upon the material found during the progress of investigation.

**3.3.4. REPORTS.**

Reports on the borehole investigation shall include the equipment used for marine sampling, laboratory tests, positioning, datum, water depth measurements, boring logs, full laboratory test descriptions and also the results alongwith field and lab notes.

A detailed draft and final report comprising the output of all the above-mentioned tests and analysis shall be submitted as laid down in these specifications.

### **3.3.5. GENERAL**

- Necessary arrangements to transport the personnel and officials visiting the site by means of suitable boats from land to offshore investigation location and back whenever required during investigations. Suitable care shall be taken during investigation in the offshore by providing life jackets, lifeboats and any other safety devices/emergency devices to prevent any accident.
- The chart adopted should be in UTM projections showing North & East and global grids (latitude & longitude) in every case.
- Laboratory Results of all tests conducted shall be submitted as per relevant IS Codes.
- All samples shall be identified with date, borehole number, depth of sample etc. Standard Penetration Test shall be carried out at the termination depth and recorded
- Sufficient number of soil samples shall be collected (Disturbed soil samples & Undisturbed samples)
- To carry out all associated works like removal and disposal of debris, setting up and removal and temporary facilities at no extra cost.
- Suitable positioning system shall be used for fixing the position of boreholes in geo-technical investigation. The bidder shall clearly indicate the methodology for maintaining the horizontal / vertical control in the proposal/write up.
- If rock is encountered, the borehole may be terminated 1 m into the rock and after taking core of 50mm sample



## SECTION – IV

### 4.1 Bill of Quantities and Rates.

Item No.	Item Description	Unit	Quantity	Rate
1	<p>Shifting and positioning the boring equipment at the location of each borehole including accurate positioning, erection/dismantling of rigs, etc., and boring through all types of soils, weathered rock , boulders, rocky strata etc upto 60mts below CD or as directed. and carrying out Borehole Investigations alongside the South Coal berth of Cochin Port Trust at the locations indicated in the drawing or as directed and also conducting field tests such as Standard Penetration Tests (SPT) and also collecting the samples, packing and transporting disturbed and undisturbed soil samples and ground water samples as per technical specification all as per relevant IS all as directed by NTCPWC complete.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"><li>• The rates shall include the cost of mobilizing and demobilizing boring equipment, personnel and all other necessary machinery including jack-up arrangements/ floating platform/pontoon, hydraulic rigs, transportation, shifting of equipment from location to location for boreholes, etc carrying out the borehole investigation alongside the South Coal Berth at Cochin Port Trust.</li><li>• No separate mobilization and demobilization charges will be paid.</li><li>• The Quantity indicated above may be varied by 33.33% at the discretion of NTCPWC at the same quoted rate</li><li>• 95% of the quoted rates against individual boreholes shall be released against the actual quantities of work done and balance 5% shall be released submission of final report.</li></ul>	Nos	3	

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**SECTION - V**

**DRAWINGS**

1. LAYOUT OF SOUTH COAL BERTH (Fig 1.)
2. LOCATION OF BORE HOLES (FIG 2.)

**ANNEXURE-I**

**UNDERTAKING TOWARDS JURISDICTION FOR LEGAL PROCEEDINGS**

**(NON JUDICIAL STAMP PAPER VALUE RS.100/-)**

This undertaking executed at..... on this..... (Date)..... (Month) Two thousand and ..... by M/s ..... Registered under Companies Act, 1956 having its registered office at ..... hereinafter called the contractor (which expression shall where the context so admits mean and include its successors in office) and in favour of Indian Institute of Technology Madras, Chennai- 36. Hereinafter called the purchaser (which expression shall where the context so admits means and includes its successors if Office and assigns).

WHEREAS a contract for the supply of .....has been awarded in favour of the contractor under the Purchase order No.....dated.....

AND WHEREAS in accordance with the terms of the above Purchase order, the contractor has to furnish un undertaking to the effect that no suit or any proceedings in regard to any matter arising in any respect under this contract shall be instituted in any matter in any respect under this contract shall be instituted in any court other than in the High court, Madras of District court at ..... or Sub-court at .....or at the District Munsiff court at ..... as the case may be.

IN CONSIDERATION of the Board having agreed to accept the undertaking the contractor hereby undertakes that no suit or any proceedings in regard to any matter arising in respect of this contract shall be instituted in any court, save in the High court, Madras or District court at.....or sub court at ..... or at the District Munsiff court at .....as the case may be it is agreed that no

other court shall have jurisdiction to entertain any suit or proceedings, even though, part of the cause of action might arise within their jurisdiction. In case any part of the cause of action might arise within the jurisdiction of any other Courts in Tamil Nadu and rest within the jurisdiction of Courts outside the State of Tamil Nadu, then it is agreed to between the parties that such suits on proceedings shall be instituted in a court within the State of Tamil Nadu and no other Court outside the State of Tamil Nadu shall have jurisdiction.

IN WITNESS WHEREOF Thiru.....of M/s ..... hereby put his hand and seal for due observance of the undertaking in the presence of the following witnesses.

COMPANY SEAL		SIGNATURE	:
DESIGNATION	:		
COMPANY	:		
DATE	:		

WITNESSES:

- 1)
- 2)

## ANNEXURE-II

### **PROFORMA OF PERFORMANCE BANK GUARANTEE**

To  
Dear Sirs,

- 1.0 In consideration of the Indian Institute of Technology Madras, Chennai - 36 (hereinafter referred to as IITM. which expression shall unless repugnant to the context or meaning thereof be deemed to include their successor interest and assigns on the one part having awarded the deployment works in favour of having registered office at (hereinafter referred to as the CONTRACTOR), which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, representatives and assigns, on the other part, by signing an agreement no. IITM/OED/.....on hereinafter referred as the AGREEMENT for the execution of the works on terms and conditions set out interalia in the AGREEMENT mentioned above as "CONTRACT" documents, valued at Rs. (Rupees ) the same having been unequivocally accepted by the CONTRACTOR and the CONTRACTOR having agreed to provide a performance bank guarantee for the obligations/liabilities under the contract equivalent to 10% of the said value of the Contract to the PURCHASER NIOT amounting to Rs..... (Rupees ) as Contract security in the form of a Bank Guarantee.
- 2.0. We hereinafter referred to as 'The Bank' which expression, shall unless repugnant to the context or meaning thereof, include its successors, administrators, representatives and assignees do hereby irrevocable guarantee and undertake to pay the PURCHASER IITM, MERELY STAMP PAPER WORTH OF Rs.100/- (NON-JUDICIAL) ON DEMAND WITHOUT any previous notice andwithout any demurand withoutreferring to any other source, any and all monies payable by the CONTRACTOR byreason of any breach by the said CONTRACTOR of any of the terms and conditions of the said CONTRACTOR including non-execution of the "CONTRACT AGREEMENT" to the extent of 10 % of the Contract price upto . Any such demand made by the Purchaser IITM on the Bank shall be conclusive and binding absolute and unequivocal not withstanding any difference between the IITM and the CONTRACTOR or any dispute or disputes raised/pending before any court, tribunal, Arbitrator or any other authority. The Bank agrees that the guarantee herein contained shall continue to be enforceable till this sum due to the IITM is fully paid and claims satisfied or till the IITM discharges this guarantee.
- 3.0 The Bank further irrevocably guarantees and undertakes to pay any and all monies due and payable by the CONTRACTOR by reasons of non-fulfillment of any of the following obligations.
  - 3.1. In the event of failure by the CONTRACTOR to satisfactory execute the works meeting the schedule and in complying with the provisions of the agreement.
- 4.0. The IITM shall have the fullest liberty without affecting in any way the liability of the Bond under this guarantee, from time to time, to extend the time of performance by the CONTRACTOR. The bank shall not be released form its liabilities under these presents by any exercise of IITM of the liberty with reference to the matter aforesaid.

- 5.0. The IITM shall have the fullest liberty, without affecting this guarantee to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the CONTRACTOR and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants contained or implied in the agreement between IITM and the CONTRACTOR or any other course of remedy or security available the IITM and the bank shall not be released of its obligations / liabilities under these presents by any exercise by IITM of his liberty with reference to the matters aforesaid or any of them or by reasons of any other act of forbearance or other acts of omission or commission on the part of IITM or any other indulgence shown by IITM or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank Guarantee. The Bank further undertakes not to revoke this guarantee during its currency without the previous consent of IITM.
- 6.0 The Bank further agrees that the decision of IITM as to the failure on the part of the CONTRACTOR to fulfill their obligations as aforesaid and/or as to the amount payable by the Bank to IITM hereunder shall be final, conclusive and binding on the Bank.
- 7.0. The Bank also agrees that IITM shall be entitled at his option to enforce this guarantee against the Bank as a principal debtor, in the first instance notwithstanding any other security or guarantee that it may have relations to the CONTRACTOR'S liabilities.
- 8.0. This guarantee will not be discharge due to the change in the constitution of the Bank or the CONTRACTOR.
- 9.0. Notwithstanding anything contained hereinabove, our liability under this bank guarantee shall not exceed Rs. ( ). This bank guarantee shall be valid upto. It is a condition to our liability for payment of the guarantee amount or any part thereof arising under this bank guarantee that we receive a valid return claim or demand for payment under this bank guarantee on or before, failing which our liability under this bank guarantee will automatically cease.

WITNESS:-

1..... SIGNATURE.....  
 (Signature with name in block letters and (Printed Name)  
 with designation)

2..... Bank's Common Seal:-  
 (Signature with name in block letters and  
 with designation)