INVITATION FOR TENDER FOR SUPPLY OF EQUIPMENT

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment.

Advanced, integrated, mobile Geophysical Logging Equipment

Please send offers, ALONG WITH DESCRIPTIVE CATALOGUE/ BROCHURE. The validity of the bid should be at least four months (120 days) or more from the date of the opening of this tender. Please ensure that your quotation reaches not later than **23.06.2015 at 10:00** hrs at the following address:

**Prof. Probal Sengupta**  
Professor, Geology & Geophysics, Indian Institute of Technology  
Kharagpur – 721 302, West Bengal, India

Earnest money of  ` 50,000/- is to be deposited in the form of Account payee Demand Draft in favour of IIT Kharagpur, payable at Kharagpur, India. Any bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

<table>
<thead>
<tr>
<th>Tender Reference</th>
<th>IIT/SRIC/GG/GPO/PS/2015-2016/EQ/1, Dated: 20.05.2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price of Tender Document</td>
<td>NIL</td>
</tr>
<tr>
<td>Last Date and Time for submitting the tender document</td>
<td><strong>23.06.2015 at 10:00 Hrs (Indian time)</strong></td>
</tr>
<tr>
<td>Time and Date of Opening of Bids</td>
<td><strong>24.06.2015 at 10:30 Hrs (Indian time)</strong></td>
</tr>
<tr>
<td>Place of Opening tender offers</td>
<td>Dept. of Geology &amp; Geophysics, Indian Institute of Technology Kharagpur – 721 302, West Bengal, India</td>
</tr>
<tr>
<td>Address of Communication</td>
<td>As stated above</td>
</tr>
<tr>
<td>Contact Telephone Numbers</td>
<td>+91- 9433423738</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:probal@gg.iitkgp.ernet.in">probal@gg.iitkgp.ernet.in</a></td>
</tr>
</tbody>
</table>
Detailed Specifications for

1. Advanced, integrated, mobile Geophysical Logging Equipment

The logging system should be a self-contained and self-sufficient mobile, transportable geo-logging system that can be maneuvered to required study sites without the requirement of additional vehicle or transporting facility.

**Control Unit:**
- The System should be used for geophysical/geological/groundwater survey and groundwater investigation.
- Should have acquisition software, acceptability of different logging receivers/sonde (Dual Neutron/Natural Gamma Sonde, Electric Log/Natural Gamma/ Temperature, Focussed Electric Log/Natural Gamma, Magnetic Susceptibility/Natural Gamma, Induced Polarisation/Natural Gamma).
- The System should be compatible for Resistivity Imaging survey as an optional item with additional cost.
- It should be compatible to Loggers having probes like Resistivity, Self-Potential and Natural Gamma.
- It should have inbuilt TFT display with minimum 10” color display or bigger size.
- The unit should have in-built keypad for complete operation during survey without using external Keyboard or mouse.
- The system should have high performance operating system like Windows-XP or above.
- It should have real-time measuring data display in LCD color display.
- Should be come with the facility of data downloading or transferring using the in-built USB ports.
- Have ports and facility to connect external key-board and Mouse.
- It should have internal memory SSD type at least 8GB memory or above.
- System should operate through external 12V DC battery (rechargeable).
- Have option to use external thermal printer to take print continuous type data in the field.

**Logging Probe:**
- It should be used for geophysical and groundwater well logging for both Electrical log and Natural Gamma log for evaluation of groundwater bearing layers.
- This logger should be combination type and single probe type to conduct both parameters simultaneously.
- It should have easily settable measurement by ‘Menu-driven operation’ and ‘Auto-ranging’, so that anyone can operate and use it easily.
- The measurement items should be Four, composed of Natural resistivity for 16” and 64” spacing, SP (Self-potential) and Natural gamma by one logging run.
- The logger should be very portable and compact and should be suitable for inserting in boreholes of at least 3 inch diameter.

**Electric Resistivity Logging**
Electrode Spacing: 16 inch, 64 inch or better.
Measuring Range
Normal: 0Ω to 20KΩm or better.
SP: +/- 2000mV or better.
Transmitting Current: 1, 2, 20, 60mA, Auto range preferred
Cycle Time: 20Hz
Transmitting Voltage: 48 V max.

**Natural gamma**
Measuring Range: 0 to 20 Kcps
Input pulse: Negative
Discriminating level: 100 keV, fixed (in the probe)

**Required Conditions:**

1. Logging Unit as explained above
2. Logger Ground Water combination probe (resistivity 16”, 64” SP and natural gamma)
3. Power winch should be battery operated by external 12V DC battery and length should be 500 meters or more.
4. The cable should be easily connected to Probe
5. Sheave should be provided for easy operation
6. Surface electrode stick, 2 pcs w/vinyl cable 50 m should be provided
7. Well head stand should be provided.
8. State-of-the-art data acquisition, processing and plotting software must be provided along the system.
9. Should be self-sufficient to be driven to more than 100 km depth.
10. Should be a latest version/model and brand new system.
GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER:-

1. TENDER ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY’S / FIRM’S LETTERHEAD NEATLY PRINTED / TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPS CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOP.

THE FOLLOWING DOCUMENTS ARE REQUIRED FROM THE INDIAN AGENTS OF FOREIGN FIRMS:

1.1 FOREIGN PRINCIPAL’S PROFORMA INVOICE INDICATING THE COMMISSION PAYABLE TO THE INDIAN AGENT AND NATURE OF AFTER SALES SERVICE TO BE RENDERED BY THE INDIAN AGENT.

1.2 COPY OF THE AGENCY AGREEMENT WITH THE FOREIGN PRINCIPAL INDICATING THE NATURE OF AFTER SALES SERVICES, PRECISE RELATIONSHIP BETWEEN THEM AND THEIR MUTUAL INTEREST IN THE BUSINESS.

1.3 PLEASE ENCLOSE THE DOCUMENT(S) RELATED TO THE ENLISTMENT OF THE INDIAN AGENT WITH DIRECTOR GENERAL OF SUPPLIES & DISPOSALS (DGS & R) UNDER THE COMPULSORY REGISTRATION SCHEME OF MINISTRY OF FINANCE.

2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.

3. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.

4. PRICE BIDS FOR FOREIGN FIRMS: PRICES ARE TO BE QUOTED ON ‘EX-WORKS’ DULY PACKED OR ON “FCA/FOB” INTERNATIONAL PORT BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY SHOWING CLEARLY THE FOLLOWING BREAK UP:-

I) EX-WORKS PRICE  
II) PACKING & FORWARDING  
III) FREIGHT  
IV) ANY OTHER RELEVANT EXPENSES.  
V) TAXES PAYABLE BY THE INSTITUTE

INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.

PRICE BIDS FOR INDIAN FIRMS: PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.

5. PERIOD OF VALIDITY: BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.

6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN FE). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO WITH YOUR
PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP & MUTUAL INTEREST IN THE BUSINESS.


8. **SCOPE OF SUPPLY**: SHOULD INCLUDE FREE INSTALLATION AND COMMISSIONING

9. **PAYMENT TERMS** FOR FOREIGN FIRMS

   A) 100% PAYMENT THROUGH SIGHTDRAFT/FORIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION.

   B) BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).

**PAYMENT TERMS** FOR INDIAN FIRMS

   A) 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION.

   B) ENSURE MENTIONING

   i) BANK DETAILS OF THE BENEFICIARY AND PAN NUMBER

   ii) FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED

10. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.

11. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.


13. **LIQUIDATED DAMAGES**: THE STORES SHOULD BE DELIVERED / DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IF THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.

14. **PATENT RIGHTS**: THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.

15. ONLY THOSE BIDDERS WHO'S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.

16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.
17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.

18. LATE TENDERS I.E. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.

19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS:-

   A) CURRENT INCOME TAX AND SALES TAX CLEARANCE CERTIFICATES AND PAN NO.

   C) BANKER’S SOLVENCY CERTIFICATE

   C) SUMMARY OF AUDITED STATEMENT OF ACCOUNTS FOR THE LAST THREE YEARS TO BE ENCLOSED AND FINANCIAL HIGHLIGHTS AND THE KEY PERFORMANCE DURING THE LAST THREE QUARTERS TO BE ENCLOSED AS PER FORMAT:-

   COMPANY’S KEY PERFORMANCE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>JAN. TO MARCH</th>
<th>APRIL TO JUNE</th>
<th>JULY TO SEPT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROSS REVENUE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROFIT BEFORE TAX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROFIT AFTER TAX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RETURN ON INVESTED</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAPITAL (ROIC)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   D) CUSTOMER SATISFACTION CERTIFICATE FROM ONE SUCH ORGANIZATION IS TO BE ATTACHED WITH THE TECHNICAL BID AND PRICE BID.

   E) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.

20. WARRANTY / GUARANTEE: THIS COMPREHENSIVE WARRANTY / GUARANTEE SHALL REMAIN VALID FOR 36 MONTHS AFTER THE GOODS (OR ANY PORTION THEREOF AS THE CASE MAY BE) HAVE BEEN DELIVERED AND COMMISSIONED TO THE FINAL DESTINATION.

21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO’S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.

22. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO PROF. PROBAL SENGUPTA, DEPARTMENT GEOLOGY & GEOPHYSICS, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - 721 302 AND ACKNOWLEDGEMENT TO BE OBTAINED.
IMPORTANT

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before placing the Purchase Order.

2. Promptly make arrangements for repair and / or replacement of any damaged item (s) irrespective of settlement of claim.

3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.

4. For any query pertaining to this bid document correspondence may be addressed to Prof. Probal Sengupta, at the address mentioned above.

LAST DATE FOR SUBMISSION OF SEALED BIDS: 23.06.2015

1) Please Note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.

2) Fax, e-mail Tender will not be accepted.

3) The General Terms and Conditions as stated above relate to supply of stores / equipment /assets etc. and for specific service other terms and conditions of the Institute will apply.

-----------------------------------------------------------------------------------------------------