



CSIR-NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

(Council of Scientific & Industrial Research)

Uppal Road, Hyderabad – 500 007

BID DOCUMENT

for

“Wireline Drilling, Coring, Steel Casing of two boreholes for Geophysical-Seismological – Hydrological measurements in Hard-rock terrain in the Koyna-Warna region, Maharashtra, India.”

Bid No.55(6)2016-PUR/T-71 dated 12/09/2016

BID CLOSING Date & Time : 07-10-2016 – 11.00 A.M.

PART-I TECHNO-COMMERCIAL BID OPENING

Date & Time : 07-10-2016 – 11.30 A.M.

CSIR-NATIONAL GEOPHYSICAL RESEARCH INSTITUTE
(Council of Scientific & Industrial Research)
HYDERABAD - 500 007

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INSTRUCTIONS TO BIDDERS

1. GENERAL

1.1 National Geophysical Research Institute (CSIR-NGRI), a premier research institute under Council of Scientific and Industrial Research (CSIR) undertaking R&D work in Earth Sciences in different parts of India, proposes to carry out **Wireline Drilling, Coring, Steel Casing of two boreholes for Geophysical - Seismological Hydrological measurements in hard rock terrain in the Koyna-Warna region, Maharashtra, India, depth of borehole upto 1500 m, Altitude of borehole approximately 850m.**

1.2 Accordingly, National Geophysical Research Institute (CSIR-NGRI), Hyderabad now invites bids under **Two Part Bidding system (Part-I -Techno-Commercial Bid and Part – II- Commercial Bid)** from reputed and experienced firms.

1.3 Deleted

1.4 Deleted

1.5 The Bidder shall comply fully with the instructions contained in this Bid document. The bidder is expected to examine all instructions, sections, terms and conditions, specifications etc. in the bid documents. Failure to furnish all information, data as required by the bid documents or submission of a bid not substantially responsive to the bid documents in every respect will be at bidder's risk and may result in the rejection of their bid.

1.6 Bidders shall bear all costs associated with the preparation and submission of bid etc. CSIR-NGRI will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

1.7 Bids are to be submitted in triple sealed cover. The first inner cover will contain Part-I TECHNO-COMMERICAL bids having all details but with price column blanked out. This cover will clearly be superscribed "**Part – I TECHNO COMMERCIAL bid**" along with bid number. The second sealed inner cover will contain only the price schedule duly filled in and signed and will be clearly superscribed **Part-II "PRICE BID"** along with bid number. These two covers shall be put into an outer cover and sealed. The outer covers should duly bear the number and date of closing/opening of the bid prominently underlined, and should be addressed to the Director, CSIR-NGRI.

2. EXPERIENCE OF THE BIDDER AND HIS PERSONNEL

2.1 The bidder as a company (or) registered partnership firm (or) proprietary concern should have the following experience in drilling.

Bore hole - I

The bidder as a company (or) registered partnership firm (or) proprietary concern should have experience in drilling.

1. The bidder to possess a Rig with capacity to Drill 1500m in hard rock terrain.
2. The bidder to have minimum experience of having completed drilling on hard rock up to 1200m in a single borehole in the last 3 years, as on date of tender advertisement.
3. The bidder to have minimum experience of having completed HQ drilling in hard rock terrain up to 500m in single hole in last 3 years, as on date of tender advertisement.
4. The bidder is to have minimum experience of having completed oriented coring using ACT III tool or equivalent or better in at least one borehole of 1000 m depth in the last 3 years from date of tender advertisement.

Bore Hole – II

5. The bidder to possess a Rig with capacity to Drill 1500m in hard rock terrain.
6. The bidder to possess necessary equipment for Flushing, both water and air upto 1500m depth.
7. The bidder to have minimum experience of having completed drilling on hard rock up to 1200m in a single borehole in the last 3 years, as on date of tender advertisement.
8. The bidder to have minimum experience of having completed HQ drilling in hard rock terrain up to 500m in single hole in last 3 years, as on date of tender advertisement.
9. The bidder is to have minimum experience of having completed oriented coring using ACT III tool or equivalent or better in at least one borehole of 1000 m depth in the last 3 years from date of tender advertisement.

Documentary evidence in support of each of above points must be accompanied with Technical Bid for further consideration and evaluation.

2.2 The following documents should be enclosed along with the Bid.

- a) The original copy of Bid document duly signed on each page as token of having accepted the terms and conditions of the Bid Documents.
- b) Proof of experience should be submitted along with **Part-I** techno-commercial (Un-priced) bid.
- c) Descriptive literature of the Bidder's constitution, experience and past performance on

similar jobs and capabilities of the personnel.

- d) Technical and other details except Price as per Bid Document duly filled in and signed.
- e) Bidder's exception, if any, to CSIR-NGRI's terms and conditions of the contract.
- f) Income-Tax certificate for the last three financial years.
- g) Any other information/details as required as per Bid Document.
- h) Bids received without signature, EMD and above documents will be summarily rejected at preliminary examination stage itself.**
- i) Bids without prescribed experience as stated above will be treated as non-responsive and will be rejected.**

2.3 Bidder should submit their detailed time schedule and Standard Operating Procedures (SOP) within **two weeks** of the issuance of Contract, so as to complete the job of drilling and related work as per scope of work within the stipulated time.

2.4 Deleted.

2.5 Bidders shall clearly indicate their legal constitution and person signing the Bid shall state his capacity as also the source of his authority to bind the Bidder. The power of Attorney or Authorization or any other document constituting adequate proof of the powers of the signatory to bind the bidder shall be annexed to the Bid. CSIR-NGRI will reject outright any Bid unsupported by adequate proof of the signatory's authority.

2.6 The Bidder shall sign his proposal with the exact name of the firm to whom the contract is to be awarded. Executive of the Bidder's organisation stating his rank/designation, enclosing a copy of his Power of Attorney to sign the Bid, shall duly sign the Bid.

2.7 Relationship with CSIR-NGRI.

The bidder shall declare in writing that neither he nor any of his associates is in any way related to any Officer/scientist in CSIR/Laboratories. CSIR-NGRI may decide not to deal with such firms who fail to comply with the above advice.

2.8 Canvassing in connection with the bid is strictly prohibited and the bid submitted by the contractor who resorts to canvassing will be liable for rejection.

2.9 Site visit, Local condition etc.

2.10 The bidder is advised to visit and examine the site of works and its surroundings and obtain for himself on his own responsibility, all information that may be considered necessary by him for preparing the bid and entering in to contract and to take necessary clearances, accessibility, stay and safety of equipment etc., The visit to the site shall be at the bidder's own risk and expense.

Failure to visit the site or failure to study the bidding documents will in no way relieve the successful bidder from furnishing any material or performing all works in accordance with the bidding documents, as a lump sum contract.

It will be imperative for each bidder to fully inform himself of all local conditions and factors which may have any effect on the execution of the contract as described in the bidding document in their own interest.

It is the responsibility of the bidder that such factors have properly been investigated and considered while submitting the bid proposals and that no claim whatsoever including those for financial adjustments to the contract awarded under the bidding documents will be entertained by CSIR-NGRI and that neither any change in the time schedule of the contract nor any financial adjustments arising thereof shall be permitted by CSIR-NGRI.

3. INSTRUCTIONS FOR FILLING BIDS

- a) Bid document shall be filled complete in all respects and shall be submitted together with requisite information. It shall be complete and free from any ambiguity, changes or interlineations..
- b) The Bidders' Bid and any annotation or accompanying documentation shall be in English language or an authentic translated version in English along with copy of original document.
- c) Bidders' shall set their prices/rate in figures preferably type written and without any qualification. Each figure stated shall be repeated in words and in the event of discrepancy between the amount stated in figures and words, the rates quoted in words shall be deemed to be the correct amount. Any changes / corrections in bid shall be authenticated with signature of bidder otherwise the bid is liable to be rejected. Illegible price bids will be rejected outright. Bids containing qualifying expressions subject to minimum acceptance etc. will be disqualified.
- d) Successful Bidder has to mobilize crew and instruments **within 4 weeks** from the date of signing of contract.
- e) Bidder is requested to provide all the vital technical details of their survey systems like measured components, noise levels, precision, over all accuracy, etc.
- f) Bidder has to provide time for completion of Drilling. It is to be completed **within 4 months** from the date of contract, excluding 4 weeks of mobilization period.
- g) No clarifications shall be sought after opening of techno-commercial bids. Conditional bids indicating exceptions/deviations to bid conditions will be summarily rejected.
- h) The bidders who are capable to take up the subject work in toto shall submit the bids. But the prices should be quoted item wise as suggested in NIT & Price Schedule. Bidders should quote a FIRM PRICE and they shall be bound to keep this price firm and without any escalation for any reason whatsoever, until the completion of the contract period.
- i) **The prices to be quoted as per given schedule of rate format and must be clearly shown in figures and words only in Indian currency.**
- j) No correspondence after opening of Bid will be entertained from the bidder. However, if CSIR-NGRI sends any communication with respect to the bid the same is to be compiled with.
- k) Bid from Bidders not complying with the above instructions can be summarily rejected.

4. DATE OF BID SUBMISSION

4.1 Bid must be received at the office of:

Controller of Stores & Purchase,
CSIR-National Geophysical Research Institute,
Uppal Road, Hyderabad – 500 007, Telangana, India
on or before **07.10.2016, 11.00 A.M.**

Bidders may also submit their offers by registered post / speed post to reach CSIR-NGRI positively on or before the due date and time.

Telex/Telegraphic/Fax/Photocopy/e-Mail bid is not acceptable.

The Part-I of the bid will be opened **on the same day at 11.30 A.M.** in the presence of bidders who are desirous to be present.

4.2 CSIR-NGRI shall not be responsible for any cost or expense incurred by any bidder in connection with his bidding against this bid and loss of bids in post/courier, regardless of the conduct or outcome of the bidding process.

5. VALIDITY OF BID

The bid must be kept valid for acceptance for **90 days** from the date of closure of bid.

6. SCOPE OF WORK

The detailed scope of work is given separately.

7. EARNEST MONEY DEPOSIT (EMD):

7.1 Bidders are required to submit separate **EMDs valid for 135 days** from the date of opening of Part-I Techno Commercial Bid for an amount of **Rs.3.00 lakhs (Rupees Three lakhs Only) for Bore Hole I and Rs.3.500 lakhs (Rupees Three lakhs and Fifty thousand Only) for Bore Hole II**

7.2 EMD can be in the form of a DD drawn in favour of The Director, NGRI, payable at Hyderabad (or) in the form of bank guarantee as per proforma attached, from a Nationalised / Scheduled Bank.

7.3 The successful bidder is required to extend the validity of the Bid EMD for a further period till the formal contract is signed and Performance Bank Guarantee (PBG) submitted.

7.4 Bids not accompanied by Earnest Money Deposit (EMD) as mentioned above will be summarily rejected.

7.5 The EMD of unsuccessful Bidders will be returned once the successful bidder furnishes the performance bank guarantee or in case the bid is cancelled.

7.6 The EMD shall be forfeited in the following events:

- a. If the Bid is withdrawn or modified or varied in a manner not acceptable to CSIR-NGRI, during the Bid Validity period or any extension thereof.
- b. If a successful Bidder fails to sign/fails to execute the contract.
- c. If fails to furnish Performance Bank Guarantee **within 21 days** of signing of contract.

8. RIGHT TO REJECT

CSIR-NGRI reserves the right to reject any or all quotations without assigning any reason whatsoever. CSIR-NGRI also reserves the right to cancel this bid at any stage without assigning any reason whatsoever.

9. AUTHORISATION

Bidders are at liberty to be present or to authorize their representative at the time of opening of Bid on the date specified. A letter of authorization must be forwarded to Director, CSIR-NGRI along with the bid document and a copy of this letter must be produced in the office by the person attending the opening of Bid. Unless this letter is presented by him, he may not be allowed to attend the opening of Bid.

10. PERFORMANCE BANK GUARANTEE (PBG):

10.1 The successful bidder will have to furnish to CSIR-NGRI Performance Bank Guarantee for a sum equivalent to **10%** of contract value from a Scheduled Bank in India. This Bank Guarantee shall be valid for a period **of 12 months for Borehole I and for a period of 26 months** for bore hole II from the date of completion of the contract and shall be sent to Director, CSIR-NGRI directly by the Issuing Bank. (as per the format enclosed) within a period of 21 days from the date of signing of the contract.

10.2 Penalty: If the successful bidder / contractor fails to attain the desired depth of 1500m as per scope of work, Performance Security will be invoked.

11. GENERAL CONDITIONS

- 11.1 In case of an unscheduled holiday on the prescribed closing/opening day of the bid, the next working day will be treated as schedule prescribed day of closing/opening of the bid.
- 11.2 This bid being **under two bid system**, only **Part-I** techno-commercial bids will be opened on the opening date indicated. Price bids (**Part-II**) of the short listed bidders will be opened later on under intimation to the Bidders.
- 11.3 The contractor shall conform to all laws including labour laws of the State/Central Government. The contractor shall indemnify CSIR-NGRI for any breach of laws committed by him. The contractor shall take adequate measures to ensure continuous and unhindered output of work.
- 11.4 The contractor shall provide and be responsible for payment of wages at prevailing rates, and provide necessary proof to CSIR-NGRI for the payment made to their workmen, payment of salaries, bonus, social charges, insurance, food accommodation and medical treatment, etc. to his employees as per the applicable laws as are in force

from time to time in India. A proper record of the payment made to the workers by the contractor should be maintained.

- 11.5 The contractor shall pay the wages directly to the workmen without any intermediary.
- 11.6 Any expenditure incurred by CSIR-NGRI on behalf of the contractor who is under an obligation to bear the expenditure as per the relevant law shall be recovered by CSIR-NGRI from the contractor either by deduction from an amount payable to the contractor under the contract or as a debt payable by the contractor.
- 11.7 The contractor will be required to maintain medical aid facilities, primarily for the provision of first aid, supply of preventive medication for types of illness such as malaria, dysentery, etc. and any requirement for Hospitalization or further medical treatment of his employees.
- 11.8 The contractor at his own cost shall be responsible for workmen's compensation, insurance, public liability insurance to cover injury or death resulting from any cause connected to Helicopter usage etc., and any other liability / protections provided for under the applicable laws, in this respect that are in force from time to time. The contractor must provide CSIR-NGRI with proof of such coverage and in particular regarding insurance under Workmen's Compensation Act 1923, ESI act 1956. Contractor should be registered under EPF and Miscellaneous Provision Act 1952. Contractor should abide by EPF Act 1952, Workmen Compensation Act 1923, ESI Act 1956, Contract Labour Act 1970 and Interstate Migrant Workmen Act.
- 11.9 The contractor will be solely responsible for security all his equipments as well for the welfare of his employees. He will have no claim against CSIR-NGRI for any loss or injury or death of his employees. He will have no claim against CSIR-NGRI for any injury or death of his employees whatever be the cause. Public liability claims against his employees will be his sole responsibility. He shall provide satisfactory proof to CSIR-NGRI that EPF, Insurance and ESI contribution has been remitted to the concerned authorities for his employees for each billing of the month. Contractor shall indemnify CSIR-NGRI from any claim in future.
- 11.10 The Contractor will acquire requisite statutory licenses/permissions before start of the work, as per applicable Law.
- 11.11 The Director, CSIR-NGRI shall be responsible for notifying authorities concerned in the drilling area the local vicinity of the physical extent, commencement date & duration of drilling. The Contractor shall assume all liabilities of whatever nature including damages, demands, proceedings and causes of action and liabilities arising out of or in connection with such claims, where such claims result from injury or damage caused on the impact of his equipment of it on such property, livestock or other animals or due to any willful or grossly negligent act or omission on the part of the Contractor or it employees or agents.
- 11.12 One core drilling rigs along with an experienced crew should be deployed in the area. The rigs must be capable of drilling to the desired depths in hard rock condition.
- 11.13 On acceptance of the contract, CSIR-NGRI will provide 2 borehole locations. The Director, CSIR-NGRI or his representative, however, reserves the right to modify the drilling plan during the operation of the contract based on the results of drilling but confining the drilling within the areas specified. The changes in the location and depth of the boreholes will, however be notified to the drilling agency well in advance in order to

avoid delay in preparation of the borehole sites and to provide sufficient time for shifting of the rigs and other materials.

- 11.14 Drilling shall normally conform to the standards given in the Table. However, considering the lithology, structure of the rock and in-hole conditions, the standards on core recovery, deviation and drift may be assessed as per site conditions.
- 11.15 The contractor/drilling agency should make efforts and exercise due caution during the course of drilling so as to obtain at least 90% overall core recovery. On completion of every run, the core should be placed in the core boxes to be supplied by contractor properly marked as per the guidelines provided by the CSIR-NGRI representative on-site. CSIR-NGRI shall arrange to take over the filled core boxes at the drill site. The contractor/drilling agency shall be responsible for upkeep and safety of core boxes till closure of the concerned borehole.
- 11.16 The contractor should be adequately equipped with regard to all drilling inventory such as casing, rods, bits etc. of appropriate requirement.
- 11.17 The contractor shall have to abide by the restrictions imposed by the Forest department where the proposed drilling area falls under forest area.
- 11.18 The borehole opening should be covered by a concrete/GI protective structure with the borehole number engraved on it before removing the Rig from the borehole point. This is to ensure that the borehole is safeguarded for scientific measurements and monitoring for several years.
- 11.19 The drilling agency/Contractor will be responsible to access the site and for choosing/selecting a suitable area for establishing their camp close to the operational area and also to arrange themselves land required for drilling operations by negotiating with the land owners and local revenue authorities, as per requirement at their own cost. No compensation is separately payable by CSIR-NGRI.
- 11.20 The Drilling agency/Contractor is responsible for locating suitable water sources for drilling and drinking purposes.
- 11.21 Movement of men and equipment of the drilling agency in the operational area is permitted to the extent necessary for carrying out the drilling operations. However, the persons so permitted are expected to maintain proper discipline in the drilling camps. The drilling operations/data generated should be kept strictly confidential.

SCOPE OF WORK

Sl. No.	Name of the Item	Qty.
	<p>Bore Hole I</p> <p>Wireline drilling, coring, steel casing of ONE borehole for geophysical-seismological measurements in hard rock terrain in Koyna-Warna region, Maharashtra, India; depth of borehole upto 1500 m; Altitude of borehole approximately 850 m. Map of bore hole location can be referred to.</p> <p>Sections of borehole: PQ drill-core to 100 m HQ drill-core to 100-1000 m NQ drill-core to 1000-1500 m</p> <p>Quotation may be made on per meter basis of drilling-coring and casing, keeping total length of each section and full borehole in view.</p> <p>Provision for perforated casing should be made available, both in HQ and NQ sections of the borehole, upto total length of 200 m. Quotation may be made per meter of perforated casing in HQ and NQ section, 100 m in each section.</p> <p>Condition of verticality upto 5 deg max is to be maintained over the entire length of borehole.</p> <p>Provision for oriented coring with Reflex ACT III tool or equivalent is to be made available. Quotation may be made on per meter basis keeping in view the entire length of borehole. Equipment specifications for oriented coring to be provided.</p> <p>Open sections of borehole should be secured with suitable reinforcements of grouting, bolts, rings, etc. where necessary, as mutually decided by driller and NGRI. Provisions for spot grouting/reaming/cementation in zones of special interest and/or fracture is to be made available. Quotation may be made on per meter basis for each of these activities keeping a total of 100 m for any of these operations, depending on formation conditions encountered.</p> <p>Two rounds of geophysical and hydrological measurements would be made during drilling, at the end of HQ and NQ drilling and before casing. Water Flushing should be conducted for these activities. A period of 10 days in HQ and NQ sections each, would be required by specialists making these measurements and must be included in the primary drilling schedule.</p> <p>Borehole will be accepted after completion of exercises related to geophysical and hydrological logging. Payment will be made on actuals; Upto 20% deviations in depth may occur depending on formation conditions encountered. Payments will be made in two parts for the borehole, after successful completion of drilling-logging-measurements in the HQ section and subsequently NQ sections.</p> <p>Cores to be delivered in boxes as per specifications.</p> <p>Transportation charges from site to Hyderabad may be quoted additionally</p>	1

Bore Hole II

1

Wireline drilling, coring, steel casing of ONE borehole for geophysical-hydrological measurements in hard rock terrain in Koyna-Warna region, Maharashtra, India; depth of borehole upto 1500 m; Altitude of boreholes approximately ~ 650 m. Map of bore hole location can be referred to.

Sections of borehole:

PQ drill-core to 100 m

HQ drill-core to 100-1000 m

NQ drill-core to 1000-1500 m

Quotation may be made on per meter basis of drilling-coring and casing/perforated casing, keeping total length of each section and full borehole in view.

Provision for perforated casing should be made available, both in HQ and NQ sections of the borehole, upto total length of 800 m. Quotation may be made per meter of perforated casing in HQ and NQ section, 400 m in each section.

Condition of verticality upto 5 deg max is to be maintained over the entire length of borehole.

Provision for oriented coring with Reflex ACT III tool or equivalent is to be made available. Quotation may be made on per meter basis keeping in view the entire length of borehole. Equipment specifications for oriented coring to be provided.

Open sections of borehole should be secured with suitable reinforcements of grouting, bolts, rings, etc. where necessary, as mutually decided by driller and NGRI. Provisions for spot grouting/reaming/cementation in zones of special interest and/or fracture is to be made available. Quotation may be made on per meter basis for each of these activities keeping a total of 100 m for any of these operations, depending on formation conditions encountered.

Two rounds of geophysical and hydrological measurements would be made during drilling, at the end of HQ and NQ drilling and before casing. Water Flushing should be conducted for these activities. A period of 10 days in HQ and NQ sections each, would be required by specialists making these measurements and must be included in the primary drilling schedule.

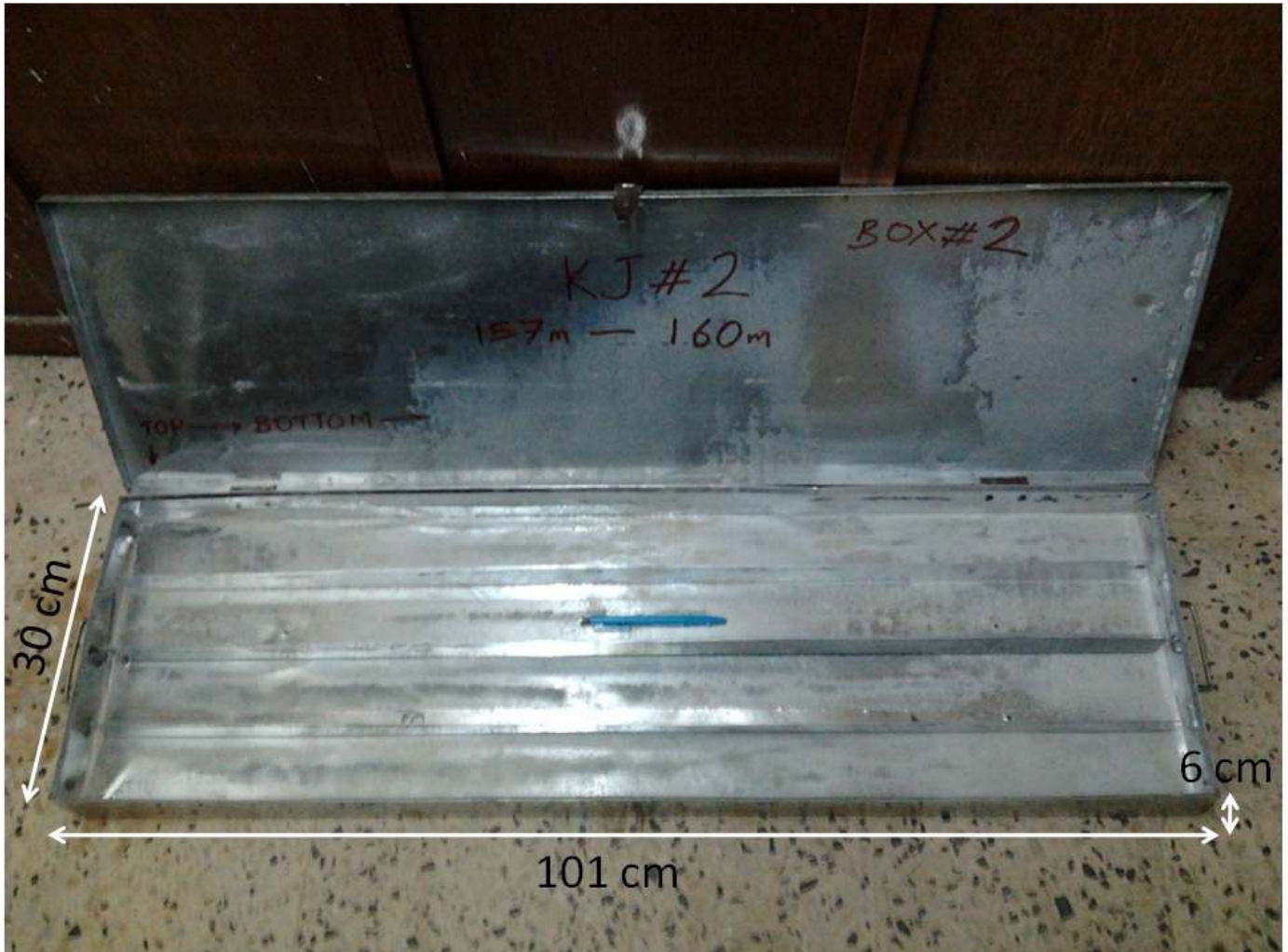
Borehole will be accepted after completion of exercises related to geophysical and hydrological logging. Partial payments will be made in two parts for the borehole: after successful completion of drilling-logging-measurements in the HQ section and subsequently NQ sections, 85% will be paid. 15% payment will be made along with the payment for additional water and air flushing, after completion of 4 rounds.

Cores to be delivered in boxes as per specifications.

Transportation charges from site to Hyderabad may be quoted additionally

<p>Payment will be made on actuals; Upto 20 % deviations in depth may occur depending on formation conditions encountered.</p> <p>4 rounds of water and air flushing would be operated for this borehole over a period of 1.5 years after completion of borehole at approximate intervals of 4 months. Quotation is to be provided per round of water and air flushing.</p>	4
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Details of GI Box for transportation of Cores



Sample GI Core Box

Schedule of Rates

The price quoted must be NET PER UNIT as well as for total meterage/number of rounds as shown in the table below and must be clearly shown in figures and words.

		Total meterage	Price per M / Round (INR)	TOTAL PRICE (INR)
		1	2	3 (1 x 2)
Bore Hole I				
Wireline drilling-coring				
	PQ	100		
	HQ	1000		
	NQ	400		
Casing				
	PQ	100		
	HQ	1000		
	NQ	400		
Perforated casing	HQ/NQ	100		
Oriented coring		1500		
Cementation		100		
Grouting		100		
Total (i)				
Service Tax (ii)				
Transportation charges for core boxes to				

Hyderabad (inclusive of Service Tax) (iii)				
TOTAL A (i + ii + iii)				
Bore Hole II				
Wireline drilling-coring				
	PQ	100		
	HQ	1000		
	NQ	400		
Casing				
	PQ	100		
	HQ	1000		
	NQ	400		
Perforated casing				
	HQ	400		
	NQ	400		
Oriented coring		1500		
Cementation		100		
Grouting		100		
Reaming		100		
Total (i)				
Service Tax (ii)				
Transportation charges for				

core boxes to Hyderabad (inclusive of Service Tax) (iii)				
SUB - TOTAL A (i + ii + iii)				
Additional rounds of air-water flushing		4 rounds		
Total (i)				
Service Tax (ii)				
SUB - TOTAL C (i + ii)				
TOTAL (A+ B)				

PRICE BID - SCHEDULE OF RATES – Offer by Bidder

BID EVALUATION CRITERIA

PARTICULARS	COMPLIED AND ACCEPTED / NOT ACCEPTED/ NOT APPLICABLE
<p>A. TECHNICAL:</p> <p>The following conditions should be complied with in toto, failing which the bid will be rejected.</p> <p>The bidder as a company (or) registered partnership firm (or) proprietary concern should have experience in drilling.</p> <p style="padding-left: 40px;">Bore hole - I</p> <p style="padding-left: 80px;">The bidder as a company (or) registered partnership firm (or) proprietary concern should have experience in drilling.</p> <ol style="list-style-type: none">1. The bidder to possess a Rig with capacity to Drill 1500m in hard rock terrain. 2. The bidder to have minimum experience of having completed drilling on hard rock up to 1200m in a single borehole in the last 3 years, as on date of tender advertisement. 3. The bidder to have minimum experience of having completed HQ drilling in hard rock terrain up to 500m in single hole in last 3 years, as on date of tender advertisement. 4. The bidder is to have minimum experience of having completed oriented coring using ACT III tool or equivalent or better in at least one borehole of 1000 m depth in the last 3 years from date of tender advertisement.	

<p>Bore Hole – II</p> <ol style="list-style-type: none"> 1. The bidder to possess a Rig with capacity to Drill 1500m in hard rock terrain. 2. The bidder to possess necessary equipment for Flushing, both water and air upto 1500m depth. 3. The bidder to have minimum experience of having completed drilling on hard rock up to 1200m in a single borehole in the last 3 years, as on date of tender advertisement. 4. The bidder to have minimum experience of having completed HQ drilling in hard rock terrain up to 500m in single hole in last 3 years, as on date of tender advertisement. 5. The bidder is to have minimum experience of having completed oriented coring using ACT III tool or equivalent or better in at least one borehole of 1000 m depth in the last 3 years from date of tender advertisement. <p>Documentary evidence in support of each of above points must be accompanied with Technical Bid for further consideration and evaluation.</p>	
<p>B. COMMERCIAL</p> <p>The lowest evaluated bidder as per the price quoted as per the schedule of rates attached, each bore hole separately.</p> <p>Rates to be quoted - as per schedule of rates attached to tender ; evaluation to be done separately and individually</p>	

GENERAL CONDITIONS OF CONTRACT

1. ADDRESS

1.1 For the purpose of this Contract, the addresses of the contracting parties will be as follows and all correspondences and notices in relation to the present contract sent to the parties to the addresses mentioned below shall be deemed to be sufficient for serving of Notices on the parties concerned.

- a) Controller of Stores & Purchase
CSIR-National Geophysical Research Institute
Uppal Road, Hyderabad-500 007, A.P. Inida

Phone: 91 40 2701 2887 / 2701 2486
Fax: 91 40 2717 1564
e-mail: purchase@ngri.res.in

1.2 CSIR-NGRI reserves the right to change the period, to instruct the contractor in respect of starting and closing of contract operation. CSIR-NGRI will not be responsible for any compensation whatsoever on this account.

1.3 **Mobilisation Period:**

Mobilisation means the deployment of requisite crew & equipment, establishment of camp by the contractor.

Mobilisation period allowed is maximum **4 weeks** from the date of issue of Contract by CSIR-NGRI. Certificate of Mobilisation jointly signed by CSIR-NGRI authorized representative and contractor shall be the proof of Mobilisation.

1.4 **Contract Execution period: Drilling** should be done sequentially within a total **period of 2 months** from the date of award of contract, excluding the mobilization period.

Water and air flushing would be operated for borehole II over a period of 1 ½ years after completion of borehole at approximate intervals of 4 months.

1.5 **Borehole completion:**

The borehole will be considered to be complete when the required depth is drilled and cored, cores are delivered in core boxes and all geophysical measurements by NGRI are completed (or) 3 weeks after handing over of cores, which ever is earlier.

6. **WORK PERFORMANCE STANDARDS:**

As detailed in the terms of reference/scope of work.

2.1 CSIR-NGRI Party Chief is empowered to declare the areas logistically difficult for drilling, end of the seismic line, last day of the fields work, a limited patch work in a seismic line and experimental work as the case may be at any time of the operations during the field season in connection with the improvement of data, by reasons of exceptionally inclement weather, by reasons of any proceedings taken or threatened by or of dispute with adjoining owner or public properties, for any other reason which is beyond the control of the contractor, and unforeseen circumstances.

3. **DRILLING METREAGE**

3.1 In all matters regarding acceptance of metreage drilled, the decision of the CSIR-NGRI Party Chief or his representative shall be final and binding on the Contractor.

3.2 The contractor is liable to pay any compensation, damages or payment of whatsoever nature if CSIR-NGRI is not in a position to accept the entire number of holes on any day due to any reason whatsoever .

4. RATES, TERMS AND MODE OF PAYMENT

4.1 RATES

CSIR-NGRI will pay to the Contractor for each meter of the accepted metreage of holes on per metre basis. **No other charges will be payable separately by CSIR-NGRI.** Unreasonable quote will not be entertained.

4.2 TERMS AND MODE OF PAYMENT

Bore hole-I

Payments will be made in two parts for the borehole.

I part after successful completion of drilling-logging-measurements in the PQ & HQ sections

II part after successful completion of drilling-logging-measurements NQ section..

Bore hole-II

Payments will be made in 3 parts for the borehole:

I part - 85 % after successful completion of drilling-logging-measurements in the PQ & HQ sections

II 85 % after successful completion of drilling-logging-measurements NQ section..

III – Remaining 15% of above and for 100% of additional 4 rounds of flushing, after successful completion of drilling-logging-measurements in the PQ, HQ & NQ sections and after completion of 4 rounds of additional water and air flushing.

Transportation charges

Within 30 days of delivery of core boxes at Hyderabad, for each bore hole separately.

4.3 MODE OF PAYMENT

(a) Such payments to be made within 30 days from the date of receipt of Invoice at CSIR-NGRI, Hyderabad, subject to certification of satisfactory service and acceptance by NGRI's Party Chief / Project Leader. Payment for accepted records and undisputed bills will be made by Director, CSIR-NGRI, Hyderabad will be directly transferred to his account electronically through e-payment mode. Any delay in payment on any account

will not make CSIR-NGRI liable to pay any interest, under any circumstances. Disputed bills will be returned to the contractor.

- (b) CSIR-NGRI Party Chief, will certify the accepted metreage and accepted amount payable on each invoice form and send two copies of invoice duly certified for release of payment to the Contractor by Director, CSIR-NGRI.
- (c) Contractor will raise the bills in the name of Director, CSIR-NGRI, Hyderabad-500007.
- (d) The contractor shall certify on the body of every bill that he has cleared all dues to the labour employed by him and for all other services hired by the contractor during the course of drilling for the period covered by the bill.
- (e) The contractor shall certify on the body of every bill that his employees are paid minimum wages not less than those prescribed by law.
- (f) The contractor at his **own cost** be responsible for workmen's compensation, insurance, public liability insurance to cover injury or death resulting from the use of explosives, automobile liability insurance, etc. and any other liability/protections provided for under the applicable laws, in this respect that are in force from time to time. The contractor must provide CSIR-NGRI with proof of such coverage and in particular regarding insurance under Workmen's Compensation Act, 1923 and ESI Act, 1956. He should be registered under Employees PF and Miscellaneous Provision Act, 1952.

4.4 COMPENSATION FOR PUBLIC PROPERTY

Compensation for damages, if any, such as damages to crops during drilling or as a result of conduct of drilling job services and/or movement of his employees and equipment along the line/profile will be **contractor's sole responsibility**.

FIRM RATES & CURRENCY OF PAYMENT

- 4.5 The contract will be fixed price contract and hence rates payable under this contract herein above shall remain **firm** throughout the period of the contract and no escalation shall be allowed under any circumstances.
- 4.6 All payments to the contractor under this contract shall be made only in Indian Rupees.

5 TAXES

The contractor shall be responsible to pay all statutory taxes and duties, etc. such as corporate tax, service tax, income tax, turnover tax, sales tax, excise duty, etc., leviable on them and their employees including sub-contractors, if any, under the Indian income tax laws or any other laws enacted by the Central or State Govt. on account of payments received by them under this contract. **Contractor shall maintain all relevant records** pertaining to the taxes and submit the same before tax or other authorities and to CSIR-NGRI as and when required.

TDS will be deducted as per Clause No.194(J) of TDS Rules.

6 LIQUIDATED DAMAGES FOR DELAY IN MOBILISATION & INSUFFICIENT PROGRESS OF WORK.

- 6.1 After issuance of Contract by CSIR-NGRI, the contractor should initiate Mobilisation. In case the contractor fails to mobilize and start his work within the prescribed time for mobilization, from the date of issue of Contract, liquidated damages at the rate of **0.5%** of contract price **per week** or part thereof for such delay will be levied. This L/D however will not exceed **10%** of the total contract value. This will apply even though the contractor is allowed to mobilize **after 4 weeks** due to reasons acceptable to the CSIR-NGRI.
- 6.2 Liquidated damages are applicable in similar way for insufficient progress of work and also non completion of work **within 2 months** from the date of award of contract, excluding period of mobilization.
- 6.3 The parties agree that LD is a genuine pre estimate of loss/damage which is suffered on account of delay/breach on the part of the contractor and the said amount is payable by the contractor without any demur.
- 6.4 **Any decision of Director, CSIR-NGRI, on LIQUIDATED DAMAGES will be final and binding on the Contractor.**

7. FORCE MAJEURE

Neither party shall be held responsible for non-fulfillment of their respective obligations under this agreement due to the exigency of one or more of the force majeure events such as but not limited to Acts of God, war, flood, earthquakes, strike, lockouts, epidemics, riots, civil commotion etc. provided on the occurrence and cessation of any such events, the party affected thereby shall give a notice in writing to the other party within one week of such occurrence or cessation. If the force-majeure conditions continue beyond two weeks, the parties shall then mutually decide about the future course of action.

In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period during which such cause lasts.

Unrest / strike by shot hole drilling contractor's personnel and/of Seismic job services personnel shall not be construed as force majeure.

8. OTHER CONDITIONS

- 8.1 The Contractor shall obtain licence under the Contract Labour (Regulation and Abolition) Act, 1970 from the Competent Authority. Only upon production of such licence, the first payment of the contractor shall be released. The Contractor shall renew his licence during the contract period if required. At the end of the contract work, the contractor shall furnish to CSIR-NGRI an indemnity Bond on non-judicial stamp paper to the effect that all wages/dues of the workmen engaged by him or by his sub-contractors have been fully paid for the entire contract period. Without this Certificate, performance Bank Guarantee will not be released.
- 8.2 The contractor shall arrange to give all notices required under various laws to all authorities and to pay to such authority or to any public office all fee/penalty that may be payable in respect of the work and lodge the receipt with CSIR-NGRI on demand. He should be registered under Employees PF and Miscellaneous Provision Act, 1952.

- 8.3 The contractor must ensure that his work shall not cause any nuisance to the public in general and to neighboring occupants in particular.
- 8.4 The contractor shall not transfer/assign/sublet the contract or any part thereof in any manner without the prior written consent of the CSIR-NGRI and no such transfer/assignment as and when accepted shall relieve the contractor of his responsibility under the contract.
- 8.5 Contractor shall provide proof to CSIR-NGRI that EPF and ESI contributions have been remitted to the concerned authorities for his employees for each billing of the month. Contractor shall indemnify CSIR-NGRI from any such claim in future (Public liability claim).
- 8.6 The contractor shall conform to all laws including labour laws of the State/Central Government. The contractor shall indemnify CSIR-NGRI for any breach of laws committed by him. The contractor shall take adequate measures to ensure continuous and unhindered output of work.
- 8.7 The contractor shall provide and be responsible for payment of wages at prevailing rates and provide necessary proof to CSIR-NGRI for the payment made to their workmen, of salaries, bonus, social charges, insurance, food, accommodation and medical treatment, etc. to his employees as per the applicable laws as are in force from time to time.
- 8.8 The contractor shall pay the wages directly to the workmen without any intermediary.
- 8.9 If any amenity required to be provided under the relevant laws for the benefit of the contractor's employees is not provided by the contractor within the time prescribed thereof such amenity shall be provided by CSIR-NGRI and all expenses incurred by CSIR-NGRI in providing the aforesaid amenities shall be recovered by CSIR-NGRI from the contractor either by deduction from any amount payable to the Contractor or as a debt payable by the contractor.
- 8.10 The contractor shall be responsible for enforcing strict discipline amongst his employees and also ensure strict compliance with safety regulations and procedures as required by the Govt. and provide all kits & liveries to their employees. The contractor should provide helmets, shoes, first aid kit and any other safety material to the workers. The contractor shall indemnify CSIR-NGRI against any injury / loss of life of any of his personnel at any time during the tenure of the contract. CSIR-NGRI shall not be liable for any claim for any accident resulting in loss of life or injury to any workman or supervisor, resident representative etc. of the contractor for whatever reason.

9. TERMINATION

- 9.1 In the event of the Contractor at any time during the term of this contract becomes insolvent or makes a voluntary assignment of its assets for the benefit of creditors or is adjudged bankrupt, then, CSIR-NGRI shall by a notice in writing have the right to forthwith terminate this contract.
- 9.2 In all cases of termination the obligation of CSIR-NGRI to pay charges shall be limited to the period up to the date of termination. Notwithstanding the termination of this contract the parties shall continue to be bound by the provisions of this contract that reasonably requires some action or forbearance after such termination.
- 9.3 If CSIR-NGRI considers that the performance of the contractor is unsatisfactory or not up to the expected standard, CSIR-NGRI shall notify the contractor in writing and specify

in detail the causes of dissatisfaction. CSIR-NGRI shall have the option to forthwith terminate the contract, if contractor fails to comply with the requisitions contained in the said written notice issued by CSIR-NGRI within ten days of the receipt thereof.

- 9.4 In case the contractor's right and/or obligations under this contract are transferred or assigned without prior written consent of CSIR-NGRI. CSIR-NGRI may at its absolute discretion terminate this contract, without prejudice to the other rights it has under the contract.

10. LIABILITY AND INDEMNITY

- 10.1 The Contractor agrees to **indemnify, defend and hold CSIR-NGRI** harmless from and against any and all claims, suits or causes of action for injury to or worth of contractor's personnel and for loss or damage to property of contractor or his personnel arising from or related to performance of this contract, and without regard to the negligence or fault of any party.

- 10.2 Except as otherwise specified in Article 10.1 above, CSIR-NGRI agrees to indemnify defend and hold contractor harmless from and against any and all claims, suits or causes of action for injury to or death of loss of damages to the property or persons belonging to its employees arising from or related to performance of this contract and without regard to negligence or fault of any party.

11. CONSEQUENTIAL DAMAGES

Neither CSIR-NGRI nor the contractor shall have any claim against the other for any consequential damages. The term consequential damages herein shall include without limitation to the meaning, loss of profit, hydrocarbon production, business opportunity of use of assets.

12. JURISDICTION AND APPLICABLE LAW

This contract shall be governed by the laws of **India** and shall be subjected to the jurisdiction of courts in **Hyderabad only**.

13. SEVERABILITY

Should any provision of this contract be found to be invalid, illegal or otherwise not enforceable by any court of law, such finding shall not affect the remaining provision and they shall remain binding on parties hereto.

14. FAIRNESS AND GOOD FAITH

The Parties undertake to act in good faith in respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract. The contractor should not share any data pertaining to the work/ project with any third party at any point of time without specific and written instructions from CSIR-NGRI to this effect.

15. ARBITRATION

Except as hereinbefore provided, all disputes arising out of or in connection with this contract shall be amicably settled or else the same be referred to the sole arbitration of a person nominated by **Director General, CSIR** as such Arbitrator. The arbitration

proceedings shall be held under the Indian Arbitration and Conciliation Act, 1996 and the statutory modification or re-enactment thereof, if any, and the rules made there under for the time being in force shall apply to such arbitration and this deed shall be deemed to be submission to arbitration within the meaning of the said Act. The cost of the arbitration shall be shared between the Parties. The award of the Arbitrator shall be final and binding on the parties. The venue of the arbitration shall be Hyderabad, India.

16. ASSIGNMENT

The rights and obligations of the Contractor shall not be assigned without the prior written consent of CSIR-NGRI.

17. INTERPRETATION

The titles and headings given in this Contract are inserted for convenient reference only and shall not be construed as limiting or extending the meaning of any provisions of this contract.

18. Penalty:

If the successful bidder / contractor fails to attain the desired depth, as per scope of work, Performance Security will be invoked.

(S. GNANAPRAKASAM)
Controller of Stores & Purchase

DEVIATION STATEMENT FORM

- 1) The following are the particulars of deviations from the requirements of the tender document and specifications:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

Place:

Date:

Signature and seal of the
Manufacturer/Bidder

NOTE:

- 1) Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

AGREEMENT FORM

The Agreement

This agreement made and entered into on _____ day of _____, 2006.

Between

CSIR (Council of Scientific & Industrial Research) a Society registered under the Societies Registration Act (XXI of 1860), having its registered office at 'Anusandhan Bhavan' 2, Rafi Marg, New Delhi – 110 001 (hereinafter called CSIR which expression shall where the context so admits include its successors and permitted assigns) represented by its laboratory National Geophysical Research Institute, Uppal road, Hyderabad of the one part.

AND

_____ (Name of the Party) a _____ (Company) registered in India under the _____ (Act No. & Year) and having its registered office at _____ (Address) (hereinafter called the PARTY which expression shall where the context so admits include its successors and permitted assigns) of the other part.

Preamble

Whereas CSIR through its National Geophysical Research Institute, Hyderabad, hereinafter referred to as CSIR-NGRI invited competitive bids vide its Bid enquiry No. _____ for Wireline drilling, Coring, Steel Casing of two boeholes in hard rock terrain in Koyna-Warna Region, Maharashtra and the bidding documents thereof.

And whereas the contractor submitted its offer vide _____ dated _____ claiming it has sufficient technical and management know-how and has offered to deploy its equipment, personnel and services as detailed in this agreement for shothole drilling and seismic job services/work for CSIR/CSIR-NGRI.

And whereas CSIR/CSIR-NGRI has issued a firm Letter of Intent No. _____ on _____.

NOW THEREFORE, the parties hereby agree as follows :-

S.3. The following documents attached here to, shall be deemed to form an integral part of this contract.

- (i) The General Conditions of Contract
- (ii) Terms of Reference / Scope of Work
- (iii) Original Bid document
- (iv) Price Bid
- (v) LOI
- (vi) Acceptance Letter
- (vii) Any other information

S.4. The mutual rights and obligations of CSIR/CSIR-NGRI and the Contractor shall be as set forth in the contract, in particular :

- (i) The Contractor shall carry out the Services in accordance with the provisions of the Contract; and

(ii) The CSIR-NGRI shall make payments to the Contractor in accordance with the provisions of the Contract.

IN WITNESS THEREOF, EACH PARTY HAS EXECUTED THIS CONTRACT AS OF THE DAY AND YEAR FIRST ABOVE WRITTEN.

SIGNED, SEALED AND DELIVERED

On behalf of the Contractor

On behalf of the CSIR/CSIR-NGRI

()

()

WITNESSESS :

(1) _____

(1) _____

(2) _____

(2) _____

BID SECURITY FORM

Whereas _____ (hereinafter called the "tenderer") has submitted their offer dated _____ (date of submission of tender) for the supply of _____ (name and/or description of the goods)

(hereinafter called the tender")

KNOW ALL PEOPLE by these presents that WE _____ (name of bank) of _____ (name of country), having our registered office at _____ (address of bank) (hereinafter called "the Bank"), are bound unto _____ (name of Purchaser) (hereinafter called "the Purchaser") in the sum of _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20_____.

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, impairs or derogates from the Tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - (a) If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
 - (b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including forty five (45) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)
Name and designation _____
of the Officer
Seal, name & address of _____
the Bank

PERFORMANCE SECURITY FORM

To

(Name of Purchaser)

WHEREAS _____

(name and address of the supplier) ((hereinafter called "the Supplier") has undertaken, in pursuance of contract No. _____ dated _____

to supply (description of goods and services) ((hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of _____

_____ (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the _____ day of _____, 20____.

(Signature of the authorized officer of the Bank)

Name and designation _____

of the Officer

Seal, name & address of _____

the Bank

