



**NATIONAL CENTRE OF EXCELLENCE IN GEOLOGY  
UNIVERSITY OF PESHAWAR**

Peshawar-25130, Khyber Pakhtunkhwa, Pakistan  
Phone: +92-91-9221254; 9221256 Fax: +92-91-9221228

Web: <http://nceg.uop.edu.pk/>

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Advertisement Date **27<sup>th</sup> January 2018**  
Last date of tender is **12<sup>th</sup> February, 2018 upto 12:00PM**  
Opening date of tender is **12<sup>th</sup> February, 2018 at 12:30PM**

Price= Rs.2000/-

**(Firms downloading this file from NCEG site will have to deposit an amount of Rs.2000/- as the Tender Document fee at the time they submit their bids. Firms submitting tenders documents through post/courier should send it before the last date of opening)**

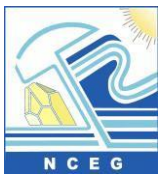
**TENDER DOCUMENTS FOR THE PURCHASE OF LAB EQUIPMENT  
SINGLE STAGE – TWO ENVELOP BID**

(Note: Please provide a soft copy of all documents in a USB/CD drive along with hard copy of the offer.

**Document Issued By:**

**NCEG Official**

**Dated: / / 2018**



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**Terms & Conditions**

**1. INVITATION TO BID**

- 1.1. The Director National Centre of Excellence in Geology invites bids for the IT, Electrical, Partitioning, and other laboratory equipment as per attached annexures.
- 1.2. Technical and Financial Bids must be submitted in separate sealed envelopes, including its due date on the face of each envelope.
- 1.3. Earnest money @ 2% of the total bid cost shall be submitted with the tender without which the quoted bid will not be considered.
- 1.4. The quoted price shall be inclusive of all duties / taxes.
- 1.5. The Director, National Centre of Excellence in Geology, reserves the right to add, delete or amend any part of the tender documents during the bidding period.

**INSTRUCTION TO BIDDERS/GENERAL CONDITIONS**

**2. Eligible Bidders/Suppliers**

- 2.1. This Invitation for Bids is open to all Bidder/Suppliers meeting the following requirements:
  - 2.1.1. Duly Registered with Federal Board of Revenue for Income Tax (Active Taxpayers) and Sales Tax.
  - 2.1.2. Manufacturer or authorized representative of the manufacturer.

**3. Qualifications of the Bidder/Suppliers**

- 3.1. The Bidder/Supplier shall provide documentary evidence that;
  - 3.1.1. The bidder/supplier has financial, technical, supplying, demonstration, fixing etc. capability necessary to perform the contract and has successful performance history in accordance to the nature of supplies in these bidding documents as described in Bill of Quantities.
  - 3.1.2. In case the bidder/supplier offering the supplies that the bidder/supplier did not manufacture or otherwise produce, the bidder/supplier has been authorized by the manufacturer or producer of such supply; and
  - 3.1.3. The Bidder/Supplier meets the qualification criteria listed under 9.2.1 b.

**SUBMISSION OF BIDS**

**4. Documents Constituting the Bid**

- 4.1. The bids submitted by the bidder, in two sealed envelopes, shall comprise the following:

**(A) Envelop -1 (Qualification documents alongwith Technical Proposal);**

To qualify the bidder and ensure Technical Responsiveness of the bid, Envelop-1 containing Qualification documents along with Technical Proposal shall be opened first. To facilitate the evaluation of the same, bidders must submit the following documents:

**(a) Qualification Documents shall comprise;**

- i. Supplier/Vender Company profile (showing Origin, Head Office, Branches, Vision, Mission, Management, Directors, Personals, and other necessary information);
- ii. Written power of attorney authorizing the signatory of the bid to act for and on behalf of the Supplier;
- iii. Certificate as bidder is Manufacturer or authorized representative of the manufacturer;
- iv. Experience record regarding in hand and previous contracts;



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- v. Status of linkages/supplies with/to other Govt. Organizations;
- vi. Organization Chart and CV's of Personal for completion of successful supplies, fixing, demonstration, and after sales service etc.;
- vii. Affidavit as the firm is eligible to participate in the bidding and is not black listed.
- viii. Copy of registration with Federal Board of Revenue and Excise and Taxation Department.

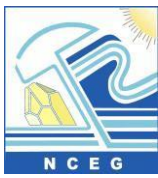
***(b) Technical Proposal shall be furnished taking into account;***

- i. To examine whether the supplies offered by the bidder comply with the specifications (Technical Provisions) of the Bidding Documents. For this purpose, the bidders shall provide Technical Proposals in shape of Brochures, Catalogues, Printed Literatures, and other Supporting Documents etc. for comparison with the data prescribed by the Employer in Technical Features/Criteria/Specification.
- ii. Certificate for providing after sales service.

***(c) Certificate that Bid Security has been attached to the financial proposal without showing the amount of bid security.***

**(B) Envelop -II (Financial Proposal)**

- a) Dully filled-in Form of Bid along with complete set of bidding documents;
  - b) Original form of Bid Security;
- 4.2.** Bids sent through courier should be delivered at least half an hour before the scheduled time of opening.
- 4.3.** After the bids / quotations are opened, no bidder shall be allowed to revise, propose or request any changes in bid, unless the committee decides to do so.
- 4.4.** The bidder or authorized representative shall sign on each page of the tender document. No corrections and overwriting are allowed.
- 4.5.** Item(s) should be quoted ANNEXURE-wise separately. Preference will be given to the firm(s) quoting maximum number of equipment ANNEXURE wise, along with installation and commissioning/Turnkey solution. However, NCEG reserves the right to opt any item from any bidder for the required items.
- 4.6.** *Bidders are requested to read carefully the terms and conditions and sign the Tender Form in token of having understood and accepted the same in all respects. All or any of the provisions of the terms and conditions may be changed/altered/modified/deleted/added or amended by the Centre as and when deemed suitable/necessary.*
- 4.7.** While quoting tender rates, the items should be given numbers as are numbered in the Tender Document.
- 4.8.** The tender Rate shall be item wise. And rate will be on both FOR basis in Pak Rupees and C&F basis *Peshawar Air Port. / NCE in Geology premises.*
- 4.9.** Prices of optional accessories should be quoted separately.
- 4.10.** *Taxes levied by the Government and freight charges, if any, shall be paid by the bidder and must be included in the quoted prices.*



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- 4.11. Bidder is responsible for timely delivery of bids. This office will not be responsible for misplacement / tampering / non-attendance delay or any other incident in case the bids are not delivered at the designated place & time.
- 4.12. The bidders should be either established firm or sole distributor / authorized agent of the manufacturer having after sale service facilities, preferably, in Peshawar and/or Islamabad/Rawalpindi.
- 4.13. The payment of equipment is coupled with installation / commissioning of equipment; therefore, supplier should make sure that bid is complete in all respects including consumables etc.
- 4.14. The bidders must enclose original Performa Invoice / Quotation from their Principals or authorization certification of the Principal, failing which their offers will be ignored.
- 4.15. **Bidders should preferably have office, workshop facilities and after sales services preferably in Peshawar and/or Islamabad/Rawalpindi.**
- 4.16. Bidders must have trained engineers to provide after sales service. Copy of Training Certificate should be submitted along with their offer.

Note:

- Certificate of the Principle Vender.
- Only those suppliers will be entertained who have previously supplied similar equipment in Pakistan.
- ***Training of Two end users will be the responsibility of the bidder, in case of winning the tender.***

The price is to be quoted, essentially indicating the following:

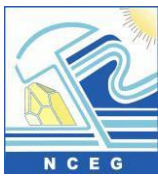
- a. Original Country of origin.
- b. Estimated gross / net weight, dimension & volume of offered item.
- c. Delivery period.
- d. Original technical literature.
- e. List of Clients to whom the same natures of equipment are supplied in recent two years.
- f. The supplier must submit a certificate that the equipment supplied are according to international standards at time of delivery, otherwise no supply will be accepted by the client and the call deposit will be forfeited.

**5. BID VALIDITY**

All offers shall remain valid for 180 days from the date of opening of bids, until any further extension required by the client.

**6. ACCEPTANCE/REJECTION**

The Director National Centre of Excellence in Geology reserves the right to reject all bids at any time prior to the acceptance of bids. The grounds of rejection will be communicated to the bidder(s) upon request. However, Director NCEG shall not be liable to provide any justification of those grounds.



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**7. RATE ESCALATIONS**

Quoted price shall remain valid, firm, and irrevocable and fixed till the fulfillment of obligations by the supplier and will not be subject to escalation on any account.

**8. TECHNICAL LITERATURE & SAMPLES**

If applicable/required, the Bidder (s) shall submit the following;

- a. Data/Fact sheets of the equipment.
- b. Original technical literature/Evaluation Software (s)

**9. BID OPENING AND EVALUATION**

**9.1. Bid Opening**

Opening of the bids shall take place in following two stages;

**9.1.1. Envelop-I (Qualification Documents along with Technical Proposal)**

- a. Prior to open the financial bid of the bidders/suppliers, Envelop-1 (i.e., Qualification Documents along with Technical Proposals) shall be opened by the purchase committee, NCE in Geology.
- b. Qualification Documents along with Technical Proposals shall be evaluated by the committee in accordance to the specified criteria.

**9.1.2. Envelop-II (Financial Proposal)**

- a. Only the Bids (Financial Proposals) of the Qualified and Technically accepted/responsive as a result 9.2.1.a, 9.2.1.b including withdrawals, substitution and modifications made pursuant to Clause 9.1.1.a, will be opened publically by the Bid Opening Committee in the presence of Bidder/Suppliers representatives who choose to attend, at the time, date and location stipulated in the specifications. The Bidder/Suppliers representatives who are present shall sign attendance sheet evidencing their attendance.
- b. The Bidder/Supplier's name, total Bid Price, any discounts, bid modifications, substitution and withdrawals, the presence or absence of Bid Security, and such other details as the Employer/Purchaser may consider appropriate, will be announced by the Employer/Purchaser at the financial opening of bids.
- c. Employer/Purchaser shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 9.2.1.b.
- d. Financial Proposals shall be evaluated in detail by the by the Committee, constituted by NCE in Geology, for the purpose.

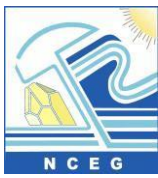
**9.2. Evaluation of Bids**

Purchase committee, NCE in Geology, shall evaluate the bids, in following two stages;

**9.2.1. Envelop -I (Qualification Documents along with Technical Proposal)**

- a. To determine the eligibility of the bidder for participation in the bidding, the committee will verify the bidder in accordance to the instructions specified under clause section 2. The Qualification Documents along with Technical Proposals of only eligible bidders shall be evaluated further.
- b. Qualification of the bidders shall be determined in accordance to criteria set herein below from the documents submitted by the bidders, prescribed in section 4. Bidder scoring 50% and above marks shall be declared as pass. Criteria for qualification of bidders/suppliers shall be;

Sr. #	Category	Weightage/Marks
1.	Registered Office	35



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	(Peshawar/Islamabad)	
2.	Experience Record	35
3.	Personnel Capabilities	30
	<b>Total:</b>	<b>100</b>

Further detailed criteria for each category shall be as mentioned in bid data sheet;

- c. Technical Proposals of the qualified bidders shall be placed for evaluation. For this purpose, the Brochures, Catalogues, Printed Literatures, and other Supporting Documents etc. submitted by the bidders shall be compared with the data in Technical Features/Criteria/specifications as envisaged in the bidding documents. It is expected that no major deviation/stipulation shall be taken by the bidders; otherwise the proposal shall be rejected.

**9.2.2. Envelop -II (Financial Proposal);**

- a. Financial proposal of only Eligible, Qualified and Technically Responsive bidders duly opened by the bid opening committee shall be placed for evaluation by following steps mentioned herein below;

A. Preliminary Examination of Bids and Determination of Responsiveness;

- b. Prior to the detailed evaluation of bids (Financial proposals);

**i. the Employer/purchaser will examine the Bids to determine whether;**

- Required sureties have been furnished,
- The documents have been properly signed,
- The Bid is valid till required period,
- The Bid prices are firm during currency of contract,
- Completion period offered is within specified limits,
- The bids are in order.

**ii. A Bid will not be considered, if;**

- it is unsigned,
- its validity is less than specified, or correction for the same is not accepted by the bidders.
- it indicates that Bid prices do not include the amount of income tax or others shall be added/considered by the evaluation committee,
- it is not accompanied with bid security,
- it is received after the deadline for submission of bids,
- it is submitted through fax, telex, telegram or email,
- it indicates that prices quoted are not firm during currency of the contract whereas the bidders are required to quote fixed price(s),
- the bidder refuses to accept arithmetic correction,
- The submitted bid is conditional,
- It limits the bidder's obligation in any way under the contract.



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**10. DETAILING OF EVALUATION MARKS**

**10.1. Experience**

Credit Marks for experience shall be awarded on the basis of following qualifications:

Sr #	Description	Detailing	Weightage
1	Supplies of similar nature equipment in last 5 years.	5marks/project	15
2	Supplies of similar nature equipment currently in hand.	5marks/project	15
3	Status of linkages/supply with/to Government Organizations.	1mark/department	5
Sub-Total			35

**10.2. Personnel capabilities**

Credit Marks shall be awarded under this category using the following criteria:

Sr #	Description	Detailing	Weightage
1	Graduates in employment of the firm in relevant field. a) Number of Personnel (5mark/person) b) Experience (one mark/year)	02. 05 years	10 5
2	DAE/Certificate holders in Employment of the Firm in relevant field. a) Number (Three marks/person) b) Experience (in one mark/year)	03. 06 years	9 6
Sub-Total			30

**10.3. Registered Offices (Peshawar/Islamabad)**

Credit Marks shall be awarded on the basis of the following criteria:

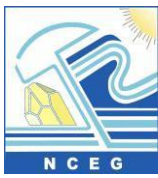
Sr #	Description	Detailing	Weightage
1	Managerial/Administrative Staff	Five marks/person	15
2	Maintenance staff	Five marks/person	10
3	Maintenance facilities	Y	10
Sub-Total			35

**11. PURCHASE ORDER**

Purchase order of quoted material shall be placed on fulfillment of conditions mentioned at above.

**12. DELIVERIES**

- a. Free delivery at the following location is required, unless specified otherwise:
  - a) Director National Centre of Excellence in Geology, University of Peshawar, Peshawar, Pakistan
- b. The supplier shall replace defective material/software/hardware at his / her risk and cost. Including transportation duty, taxes etc.
- c. The material shall be in original/sealed packing to ensure delivery without any damages during transit.
- d. The supplier shall be responsible for and shall provide part of the work and services/functions and equipment related to packing, handling and general transportation requirements.
- e. If any of the software/hardware is discovered to be damaged or unacceptable at the point of embarkation or disembarkation, the supplier shall be responsible for replacement of the software/hardware free of any charges and costs to the buyer / client.
- f. Time of Delivery of all equipment will be Maximum 90 days (FOR) and 180 days (C&F) after the date of issuance of purchase order.
- g. **The equipment should be new and the vendor/supplier will ensure originality of the procurement channel as well as equipment.**



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- h. The Equipment shall be supplied in packed form and shall only be opened in the presence of the Purchase Committee/NCEG Official. Working manuals and other related literature shall accompany the equipment in original at the time of delivery.

**13. SCOPE OF SUPPLY**

- a. The bidder shall supply/deploy equipment/items, of the specifications given in the attached Annexure-II, III, IV, V, VI.
- b. The bidder shall also be responsible for their installation, calibration, free service and the supplies at least one year from the date the equipment makes warranty functional.
- c. **All equipment should be accompanied by service manuals of the equipment/item separately in English.**
- d. In case installation at the times of supply/delivery is not possible; the vendor/supplier has to fulfill the same on the new installation date, given by Technical/Concerned Person of the NCEG.

**14. INSPECTION**

Pre-delivery inspection may be carried out at the premises of supplier (s) and / or post delivery inspection at office of Director, by the Technical Committee/NCEG official.

**15. PAYMENT**

The supplier, after delivery of goods and its acceptance/satisfactory report shall submit invoice to this office, containing relevant information i.e.

- a. Purchase order number and date
- b. Item number
- c. Quantity
- d. Price
- e. Delivery challan indicating delivery date.
- f. Sales tax return invoices.
- g. No Interim payment will be made.

**16. TAXES**

- a. **Income tax as applicable** under the prevailing Government rules will be deducted at source (except where the supplier provides an income tax exemption certificate).
- b. Quoted price shall be inclusive of all taxes, especially **GST 17%** will be applicable.
- c. Stamp duty of 1% will be deducted from the final bill.
- d. Professional tax shall be deducted as applicable.

**17. LIQUIDATED DAMAGES**

- a. If supplier fails to deliver ordered material within the stipulated period / scheduled time specified in purchase order, The Director, without prejudice to any other remedies, shall deduct from the bills or any other due payments / guarantees, as liquidated damages, a sum equivalent to 0.1% per day of the undelivered goods up to maximum 10% of the bid price & forfeit 2% earnest money.
- b. The liquidated damages shall also be applicable for the cancelled quantity of goods.
- c. Whenever liquidated damages become payable, in the event that delivery of all goods and equipment is not made within the time period specified except on account of force majeure, the buyer shall quantify the same and shall serve notice to the supplier requiring payment thereof.





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d. If the supplier fails to remit payment within ten (10) days of receipt of such notice, the buyer shall forth-with become entitled to recover the same.

**18. SECURITY DEPOSIT/RETENTION MONEY/PERFORMANCE SECURITY**

10% Amount of bill price shall be deducted or bank guarantee provided by supplier & the same should be released after the issuance of FAC / Satisfactory report.

**19. MAINTANANCE PERIOD**

Maintenance period is one year from the date of successful installation.

**20. INSTLLATION & COMMISIONING**

a. **Please note that system/supply should be completed in all respect in terms of hardware, software and accessories/spare parts. Any deficiency in acquisition of desired results at the time of installation and subsequent functioning will be the responsibility of the supplying firm/company, without any additional cost. All the supply should be based on National Centre of Excellence in Geology University of Peshawar.**

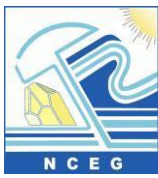
b. The supplier will be responsible for installation, testing Commissioning and one year smooth running of equipment. And also arrange free of cost training for the buyer/client.

**21. CONDITIONAL BIDS**

Conditional, incomplete bid will not be accepted.

**22. BID BOND/ EARNEST MONEY**

- The bidder shall furnish, as part of his bid, earnest money equal to 2% of quoted price with their offer in the form of demand draft/ pay order in favor of Director, National Centre of Excellence in Geology, University of Peshawar, Peshawar.
- The earnest money shall be denominated in Pak rupees and shall be in the form of Demand Draft, Pay Order or Call Deposit issued by a Pakistani scheduled Bank or branch of a Foreign Bank, acceptable in favor of the National Centre of Excellence in Geology, University of Peshawar, Peshawar.
- In case of alternate prices, earnest money will be based on the maximum quoted price of the same item.
- The Demand Draft shall be returned to unsuccessful bidders.
- **The Earnest Money will be forfeited if a bidder withdraws his bid during the period of his bid validity or fails to supply the machinery / equipment ordered by the university.**



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**23. SIGNING OF BIDS**

The person signing the bid shall initial all the pages of the bid, where entries are made and attach Tender Document cost receipt in original.

**24. PURCHASER'S RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS**

The National Centre of Excellence in Geology, University of Peshawar, Peshawar (Purchase Committee) reserves the right to reduce or increase the quantity, accept or reject any bid and to stop the bidding process and reject all bids, at any time prior to award of supply order without incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidders of the ground for such actions.

**25. CONVENCING**

Unsolicited advice/clarification and any personal approaches at any stage of evaluations/purchase process are strictly prohibited and may lead to disqualification.

**26. PERFORMANCE SECURITY**

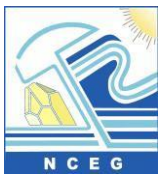
- Within one week of issuance of the purchase order for C&F equipment only, the successful bidders shall furnish to National Centre of Excellence in Geology, University of Peshawar, the performance security bond as per Annexure-I, equivalent to 10% of the bid price in the form of a bank guarantee, before opening of LC.
- The performance security shall be payable to the National Centre of Excellence in Geology, University of Peshawar, as compensation for any loss resulting from the supplier's failure to complete its obligation.
- The performance security will be discharged by the National Centre of Excellence in Geology, University of Peshawar, and returned to the supplier after completion of the supplier's performance obligations under the contract.
- The security will be retained for one National Centre of Excellence in Geology, University of Peshawar, year starting from the date of successful installation and operation of the machinery / equipment.

**27. CALIBRATION OF EQUIPMENT**

- It will be the responsibility of supplier to arrange standards / consumables required for the calibration of the equipment at the time of installation.
- No TA/DA claim will be entertained by NCEG, in case of after sale services, whenever it requires within the premises.
- *In case of non-conformity with desired specification, the item shall be replaced by the supplier free of cost.*

**28. WARRANTY**

- The supplier shall furnish at least one year after sales service / warranty for successful operation of equipment(s) / item(s) from the date of installation.
- In case of Malfunctioning / defect in any equipment / item, the supplier shall replace them free of cost within 30 days; otherwise the supplier will return the entire paid amount to National Centre of Excellence in Geology, University of Peshawar immediately.



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**Note:**

*By signing this agreement, you acknowledge that you have read and understood, and agree to be bound by, the terms and conditions as outlined in the agreement and confirming that your company/organization terms and conditions stand eradicated.*

Dated: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Company Name: \_\_\_\_\_

Contact No: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

E-M ail: \_\_\_\_\_

Signature and official Seal: \_\_\_\_\_

**NCEG Official & Signature** \_\_\_\_\_



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**Bidders are required to provide a comprehensive solution both in terms of efficiency, utilization and economic as well.**

**Note:**

1. LC opening process will be the responsibility of the supplier with the facilitation of the NCE in Geology, insurance charges/expenses should be paid by the supplier and cover the item, machinery and equipment etc., should be provided up to the laboratories of NCE in Geology or end user destination.
2. The customs clearance of machinery and equipment etc., at any airport/seaport/dry port will be the responsibility of the supplier and their cost including the local transportation up to the lab/Centre or end user destination. The Centre will provide the exemption certificate and other documents for clearance purpose to the supplier.
3. Please note that system/supply should be completed in all respect in terms of hardware, software and accessories/spare parts. Any deficiency in acquisition of desired results at the time of installation and subsequent functioning will be the responsibility of the supplying firm/company, without any additional cost. All the supply should be based on National Centre of Excellence in Geology University of Peshawar.
4. No FTT will be entertained.
5. Please provide individual item prices (wherever possible) for item-wise comparison
6. The Equipments of which specifications are not given above, the suppliers are requested to quote all the models, which they can supply.
7. Submission of Data/Fact sheets, explaining the function and specification, of each equipment quoted is necessary.
8. The quotes should include all the accessories needed for the proper functioning of each equipment for the given task. The successful tenders will have to accept / abide by all the responsibilities regarding installation and proper functioning of the equipments and training to the end user.
9. Installation, commissioning and training of the end users on these systems will be responsibility of the supplier. The contract shall be liable to be cancellation if the supplier does not meet this condition.
10. The tender Rate shall be item wise. And rate will be on both **FOR basis in Pak Rupees and C&F basis Peshawar Air Port/NCE in Geology Premises.**
11. The bidders shall have to provide a certificate from the principle vendor a certificate that all the equipments are according to ASTM standards.
12. The cost should be inclusive of all the taxes as admissible as per rules.
13. **The specifications of the items where appropriate are given in this tender document. However, firms are encouraged to quote also the better quality items, if available in the market.**



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**ANNEXURE-I**

**PERFORMANCE BOND**

Director  
NCE in Geology  
University of Peshawar, Peshawar

Dear Sir,

RE: AGREEMENT DATE : \_\_\_\_\_ BETWEEN  
YOURSELVES & M/S \_\_\_\_\_ No. \_\_\_\_\_ In consideration of  
your having concluded a CONTRACT evidenced by purchase order No. \_\_\_\_\_ dated  
\_\_\_\_\_ with m/s. \_\_\_\_\_ (SUPPLIER) for  
\_\_\_\_\_ and in consideration of value received from the SUPPLIER, we agree and  
undertake as follows:-

Name of Equipment: \_\_\_\_\_ Amount: \_\_\_\_\_

- a. To make unconditional payment of \_\_\_\_\_ or unconditional payments from time to time as called upon totaling the said sum of \_\_\_\_\_ being 10% (Ten Percent) of the CONTRACT price mentioned in the said Purchase Order/ Agreement upon your written demand(s) without further recourse, question or reference to SUPPLIER the event of Supplier's default in compliance with its obligatory liabilities and responsibilities arising under and in pursuance of the warranties and guarantees committed by it in the said Purchase Order / Agreement.
- b. To accept written intimation(s) from you as sufficient evidence of the existence of a default or non-compliance as aforesaid in the part of SUPPLIER and to make payment accordingly within fifteen (15) days of receipt of the written intimations.
- c. To keep this guarantee in full force from the date of this guarantee up to two years after the date of installation and successful operation of equipment.
- d. No grant of time or other indulgence to or composition or arrangement with SUPPLIER in respect of the performance of its obligations under and in pursuance of the said Agreement / Purchase Order of any Clause thereof, with or without notice to us shall in any manner discharge or otherwise, howsoever, affect this guarantee and our liabilities and commitments hereunder.
- e. This guarantee shall also cover obligations of the SUPPLIER so far as liquidated damages is concerned, as provided in Agreement / Purchase Order any recovery on account of liquidated damages shall not reduce the value of 10% (Ten Percent) provided herein.
- f. This guarantee shall be binding on us and our successors-in-interest and shall be irrevocable.

Yours faithfully,

\_\_\_\_\_  
Bank Seal



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**Tender Form**

Equipment and items to be purchased from NCEG's and "Strengthening of NCE in Geology" project's budgets.

<b>S.No</b>	<b>Name of Laboratory</b>	<b>Annexure/Page No</b>
1	GEOTECHNICAL ENGINEERING LAB	ANNEXURE II/14
2	GEO-/THERMO- CHRONOLOGY LAB	ANNEXURE III/15
3	XRD LAB	ANNEXURE IV/19
4	GENERATORS	ANNEXURE V/20
5	GEMOLOGY LAB	ANNEXURE VI/21

Note: Firms are required to provide Annexure wise quotations, complete in all aspects of accessories, consumables and requirements of the labs. Further, for clarification of any specifications, please consult this office.



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**ANNEXURE II**

**GEO-TECHNICAL ENGINEERING LAB**

No.	Name	Specs:	Qty
1	Rock permeability apparatus	Constant pressure system 3500kPa oil/water Nylon tubing 4 x 6 mm dia 20 m coil Hoek triaxial cell NX 54.7 mm Permeability end caps for NX triaxial cells Low friction pressure maintainer for lateral pressure in the Hoek triaxial cells Mohr's grad. Burette 25 ml Support base Double sleeve metal/glass	1
2	borehole piezometer	push-in type, Cable, Reader, Data logger (VW MiniLogger) to obtain frequent and unattended readings	2 3
3	pressuremeter	In situ stress controlled loading test performed on the wall of a borehole using a cylindrical probe (Control Unit), plastic tubing and 3-cell probe to perform in situ Pressuremeter test in soils according to the ISO 22476-4 and ASTM D4719-07 standards	1
4	Digital inclinometer	digital probe, control cable marked in meters or feet, a cable gate, a Bluetooth reel, Reader app for Android-based devices, and inclinometer software	2
5	Extensometer	anchors set at specified depths, rods inside protective tubing, and a reference head. Measurements taken at the reference head by micrometer or by an electric sensor.	5
6	Digital Tiltmeter	portable device to measure tilt in structures such as buildings, dams and embankments and also for measurements related to the stability of slopes, open pits and the walls of excavations (e.g. slurry walls). The sensing element is a highly accurate MEMS (Micro-Electro-Mechanical Systems) tilt sensor, to communicate with Field PC Readout via Bluetooth.	2
7	Universal Proctor/CBR automatic compactor	Universal Proctor/CBR automatic compactor	1
8	Bits	Diamond bits 54mm & 50mm	2 each
9	Marshall stability apparatus	Digital & mould ejector (complete in all respects)	1
10	Automatic Marshall compactor,	ASTM D1559	1
11	Digital balance	Top loading balance Capacity: 5000g Readability: 0.01g  Platform Scale Capacity: 120kg Readability: 5g	1 each
12	Porous plates	50mm, 25mm, 54mm, 75mm	2



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			each
13	Sand equivalent test set	ASTM D2419	1
14	Chloride content	Quantab titrators (BS812:117   BS1377:3)	80 strips
15	Potential Alkali Reactivity	Potential Alkali Reactivity of Aggregates (Mortar Bar Method) ASTM C1260, C1293, C227	1
16	abraser tester	Taber abramer tester, oModel 5135, ASTM C1353, C241	1
17	Laboratory coring machine and bits	Laboratory coring machine, 2 speed, complete with water inlet Diamond core bit for diameter; 21.46, 30.10,38.10,42.04,54.74 and 63,5mm	1 each
18	Relative density apparatus	Relative density of cohesion less soil	1
19	Asphalt extraction		1
20	breaking point of solid and semi-solid bitumens		1
21	Bitumen Extractor Electrically Operated		1
22	Bitumen Penetrometer		1
23	CAMBER BOARD		1
24	CONRADSON CARBON RESIDUE APPARATUS		1
25	DUCTILITY TESTING MACHINE		1
26	ELASTIC RECOVERY MOULD		1
27	FLOAT TEST APPARATUS		1
28	Asphalt temperature guage		1
29	Digital Automated consolidometer		1
30	Abrasion testing machine		1





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31	Joint roughness coefficient test device		1
32	<b>Soil prospecting kit</b>	<p>Consist of:</p> <p>Hand auger head 80 mm dia. Hand auger head 100 mm dia. Hand auger head 150 mm dia. Spiral soil auger head 40 mm dia. Dutch soil auger head, Edelman model, 70 mm dia. Gravel auger head 150 mm dia. Stainless steel sample tubes dia. 38x230 mm (6 pieces) Plastic end caps for sample tubes 16-T0010/6 (12 pieces) Jarring link Hand extruder for sample tubes dia. 38x230 mm. Extension rods, 1 m long (6 pieces) T handle with 1 m rod. Stillson wrenches (2 pieces)</p>	1
33	Munsell soil chart for soil classification		1
34	automatic universal tester	<p>MULTISPEED automatic universal tester with touch screen digital speed control and data acquisition Modulus of rupture and flexural strength of natural building stones and concrete beam Connecting adapter load cell/cross beam Load cell 2,5 kN capacity or 10 or 50 or 100 kN Testing device for modulus of rupture</p>	1
35	Tensiometers (for measuring soil Suction)		6
37	Earth Pressure Cells		10
38	<p><b>The following accessories are required for Soil-Water Characteristic Cell (SWC-150)</b></p> <p>GCTS-USA <b>1: Convection Heater (HTC-250-S)</b> GCTS-USA <b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Digital temperature controller with internal fan and thermocouple for precise temperature control with 0.2 degrees precision.</li> <li>• Includes digital micro-controller with advanced auto-tune PID and LED display, thermocouple with feed-through connector, silicone rubber fiberglass insulated flexible cell heater, and miniature internal fan for even heat distribution.</li> <li>• Maximum temperature 70C. 250 Watts.</li> <li>• Power: 110/220 VAC, single phase power.</li> </ul> <p><b>2: Deformation Gage (SWC-DEF)</b> GCTS-USA <b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Digital dial gage to measure specimen deformation in the SWCC device.</li> <li>• 0-12 mm (0.5 inch) range with 0.01 mm (0.0005 inch) accuracy.</li> <li>• Includes mounting hardware.</li> </ul>		One each



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**3: 1, 3 & 15 bar Mounted Ceramic Stones,  
HAEV Ceramic Stones are mounted on  
Stainless Steel Rings for quick Installation/Removal  
(SWC-CSM-01, SWC-CSM-03, SWC-CSM-15)  
GCTS-USA**

**4: Specimen Rings, Cutting/Holding  
Specimen Rings, Made of Stainless  
Steel for 25, 38, 50 and 71 mm Diameter Specimens  
(SWC-112-25, SWC-112-38, SWC-112-50, SWC-112-71)  
GCTS-USA**

**5: Hanging Column for Application of  
Low Suctions between 1 and 5 kPa to  
Soil Specimens (SWC-HCA)  
GCTS-USA**

**6: Pressure Booster (PCP-PBOOST)  
GCTS-USA**

**Specifications:**

- 4:1 Air pressure amplifier and holding tank with a 2000 kPa (290 psi) pressure maximum outlet pressure capacity. Includes pressure booster, inlet and outlet pressure gages, inlet pressure adjusting knob and fiberglass-wrapped aluminum tank with 1.0 liter capacity.

**7: Pneumatic Loading Frame (FRM-10C)  
GCTS-USA**

**Specifications:**

- Small 2-column standing load frame with stainless steel columns and hard-anodized aluminum top and bottom plates. Includes double-acting Bellofram diaphragm air cylinder with 10-Kn capacity and 50-mm stroke. Also includes pressure regulator and gage for manual control of normal load. 225 mm horizontal and 300 mm vertical clearance.

**8: Pore Water Pressure Transducer for  
Cell Base, 200 kPa Range, 0.3% Accuracy  
FS, Includes Bleeding Port to De-Air  
Transducer and Digital Readout Unit**



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**ANNEXURE III**

**GEO-/THERMO- CHRONOLOGY LAB**

S. No.	Item Name	Specifications	Quantity
1.	Laser Ablation system.	<ul style="list-style-type: none"> <li>Laser Ablation (LA) system with complete accessories and standards capable of being coupled with “Perkin Elmer NexION 350 X” ICPMS</li> </ul> Preferably the LA system with: <ul style="list-style-type: none"> <li>Wavelength 193 / 213 nm</li> <li>Spot Sizes: 1–250 microns</li> <li>LA system capable of analyzing solid samples (rock and minerals) for major, trace, REEs, PGEs, Geochronology, isotopic ratios and low concentration elements.</li> </ul> <b>Note:</b> Better specification will be preferred within available budget and with capability of coupling with “Perkin Elmer NexION 350 X”.	1
2.	Magnetic separator	<ul style="list-style-type: none"> <li>Magnetic separator for diamagnetic, paramagnetic and non-magnetic mineral separation from powder samples with continuous sample feed and visibility of the separation to have live check on the process.</li> <li>Should include the accessories for reversing current direction and ability to be used in both inclined as well as vertical position.</li> <li>Electrical power specifications: 110-120 Vac, 3.0 A, 50-60 Hertz 2.5 Ampere @ 150 V dc current.</li> </ul>	1
3.	Platinum tubes	<ul style="list-style-type: none"> <li>0.7 X 1 mm cylindrical platinum tubes for crystal(s) packing.</li> </ul>	1000
4.	Heavy Liquid for mineral separation	<ul style="list-style-type: none"> <li>Sodium Polytungstate liquid</li> </ul>	10 kg
5.	Heavy Liquid for mineral separation	<ul style="list-style-type: none"> <li>Diiodomethane liquid</li> </ul>	1 kg
6.	Hydrometers (Specific gravity meters)	<ul style="list-style-type: none"> <li>For Sodium Polytungstate = 2.0 - 3.0 SG</li> </ul>	1
7.	Hydrometers (Specific gravity meters)	<ul style="list-style-type: none"> <li>For Diiodomethane = 3.0 - 4.0 SG</li> </ul>	1
<b>Note: All the above equipment(s)/instrument(s) should have the above specs or of better quality. Bid should be complete in all respect including all the necessary attachments, spares and accessories which can serve the purpose to its full satisfaction.</b>			



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**ANNEXURE IV**

**XRD LAB**

S. No.	Item Name	Specifications	Quantity
1.	X-Ray Diffractometer	<p>Complete XRD system with all accessories fulfilling the following minimum requirement</p> <ul style="list-style-type: none"> <li>- XRD range = <math>&gt;165^\circ 2\theta</math></li> <li>- X-Ray generator power = 3 Kw or above supporting all current and future X-ray tubes</li> <li>- All kinds of (compatible) sample stages and sample holders must be provided.</li> <li>- Capable of obtaining data from specified point, line as well as area of a sample.</li> <li>- Capable of analyzing different types of samples including (but not limited to) Powder, Solid Objects, Nanomaterial and Thin Films etc.</li> <li>- Must have auto sampler capability for analyzing large number of samples.</li> <li>- Must also contain programmable slits.</li> <li>- PDF 4+ 2018 database with minimum of 5 years academic/scholar license.</li> <li>- Necessary software(s) for performing the following tasks. The software(s) must also have the Auto search-and match capability.</li> <li>- System cooling facility (if needed).</li> <li>- Necessary equipment to operate with 220V power supply (if needed).</li> <li>- UPS backup for at least 1 hour.</li> <li>- Compatible computer and color printer.</li> <li>- Advance level foreign training on instrument covering the following sections.</li> </ul> <p><b>Applications</b></p> <ul style="list-style-type: none"> <li>• Phase Identification</li> <li>• Quantitative Analysis</li> <li>• Crystal structure determination</li> <li>• Pair Distribution Function (PDF) analysis</li> <li>• Small Angle X-Ray Scattering (SAXS)</li> <li>• X-Ray Reflectometry (XRR)</li> <li>• Reciprocal Space Mapping (RSM)</li> <li>• Residual Stress</li> <li>• Texture (pole figures)</li> </ul> <p><b>XRD should be capable of analyzing, identifying and quantifying all types of geological, industrial, chemical and pharmacological materials.</b></p> <p><b>Also provide prices of accessories/parts separately. Don't just provide accumulated single price for everything.</b></p>	• 1

**Note: All the above equipment(s)/instrument(s) should have the above specs or of better quality. Bid should be complete in all respect including all the necessary attachments, spares, standards, latest XRD data software and accessories which can serve the purpose to its full satisfaction.**



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**ANNEXURE V**

**GENERATOR**

<b>Sr. No</b>	<b>Item Name</b>	<b>Specifications/Description</b>	<b>Qty</b>
1	Generator With ATS, Canopy and other accessories	250 kva	1
		200kva	1
		150 kva	1
		100kva	1
		50 kva	1



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**ANNEXURE VI**

**GEMOLOGY LAB**

<b>S. No.</b>	<b>Item Name</b>	<b>Specifications</b>	<b>Quantity</b>
1	Digital Refractometer	-At least 200 gemstones database -Refractive index range between 1.30-3.30 or above	1
2	Heavy liquids	Use for separation of minerals/Gemstones S.G range from 2.65 to 4.4	3 sets
3	LED TV 55" QHD/UHD	<ul style="list-style-type: none"><li>• Widescreen LED Display</li><li>• UHD 4k 3840x2160 Resolution</li><li>• 4x HDMI inputs port</li><li>• 3x USB Ports</li><li>• 1 RF in (Antenna/Cable)</li><li>• 1 Ethernet Controller</li><li>• PC input port</li><li>• Wall Mounting Stand</li><li>• Minimum 1 year Warranty</li></ul>	1
4	Desktop Polariscopes	- At least 4x4 inches Dimension -With Conoscope -With additional lamp -100V-240V global electrical compatibility	10