



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

Peshawar-25130, NWFP, Pakistan
Phone: +92-91-9216427; 9216429 Fax: +92-91-9218183
Web: <http://nceg.upesh.edu.pk/>

Last date of tender is **July 13, 2015 upto 12:00PM**
Opening date of tender is **July 13, 2015 at 12:30 PM**

**TENDER DOCUMENTS FOR THE PURCHASE OF
ITEMS**

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

Document Issued By:

NCEG Official

Dated: / / 2015



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Terms & Conditions

1) INVITATION TO BID

- The Director National Centre of Excellence in Geology invites bids for the items as per attached list.
- Bids must be submitted in sealed envelopes, including its due date on the face of the envelope.
- Earnest money @ 2% of the total bid cost shall be submitted with the tender without which the quoted bid will not be considered.
- The quoted price shall be inclusive of all duties / taxes.
- 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) SUBMISSION OF BIDS

- Bids in sealed envelope should reach the office of the director on or before the due date.
- Bids sent through courier should be delivered at least half an hour before the scheduled time of opening.
- 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.
- The bidder or authorized representative shall sign on each page of the tender document. No corrections and overwriting are allowed.
- 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.
- ***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.***
- While quoting tender rates, the items should be given numbers as are numbered in the Tender Document.
- 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.
- Prices of optional accessories should be quoted separately.
- *Taxes levied by the Government and freight charges, if any, shall be paid by the bidder and must be included in the quoted prices.*
- 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.
- 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.
- 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.
- The bidders must enclose original Performa Invoice / Quotation from their Principals or authorization certification of the Principal, failing which their offers will be ignored.
- **Bidders should preferably have office, workshop facilities and after sales services preferably in Peshawar and/or Islamabad/Rawalpindi.**
- 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 equipments 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.



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3) 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.

4) 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.

5) 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.

6) 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)

7) EVALUATION

Evaluation will be done on item-wise basis unless specified otherwise. The Director National Centre of Excellence in Geology, for timely delivery or economic reasons/compatibility, may:

- a. Split the tendered items/ quantities among more than one supplier.
- b. Form a package of tendered items/quantities.
- c. Omit, Decrease or increase any item of Bid.

8) PURCHASE ORDER

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

9) 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 60 days (FOR) and 90 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.**
- 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.

10) SCOPE OF SUPPLY

- a. The bidder shall supply/deploy equipment/items, of the specifications given in the attached Annexure-II, III, IV, V, VI, VII.
- 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.

11) 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.

12) 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



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- c. Quantity
- d. Price
- e. Delivery challan indicating delivery date.
- f. Sales tax return invoices.
- g. No Interim payment will be made.

13) 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. Professional tax shall be deducted as applicable.

14) 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.
- 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.

15) 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.

16) MAINTANANCE PERIOD

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

17) 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.

18) CONDITIONAL BIDS

Conditional, incomplete bid will not be accepted.

19) 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 favour 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 favour 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.**

20) 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.

21) 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.

22) CONVENCING

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

23) PERFORMANCE SECURITY



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- 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.

24) 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.*

25) 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.

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-Mail: _____

Signature and official Seal: _____

NCEG Official & Signature _____



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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:-

1. 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.
2. 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.
3. 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.
4. 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 out liabilities and commitments hereunder.
5. 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.
6. This guarantee shall be binding on us and our successors-in-interest and shall be irrevocable.

Yours faithfully,

Bank Seal



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ANNEXURE-II

Laptops (3rd Advertisement)

A. Laptops*

Core i7	<p>15.6" Professional Series Laptop from reputed manufacturer with are required with following generalized but required specifications:</p> <ul style="list-style-type: none">• FHD ((1920x1080) Antiglare LED Backlit Screen• Min. 2GB nVidia Graphics Card• Intel Core i7 Processor (preferable with 6MB Cache and quad core)• 16GB RAM• 1TB 7200/5400 RPM Harddisk• DVD RW±• USB 3.0 ports• Backlit keyboard• Battery backup of minimum 3hrs+• Original Company Manufactured Carrying case• Local Warranty• No Operating System• Models with front panel LEDs for HDD, Power, WiFi, charger etc.
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ANNEXURE-III

3rd Advertisement

Section: A* Firefighting equipment

Serial Number	Item/Short Description	Unit Price
1	Fire Extinguishers - DCP (Dry Chemical Powder) Type/Co2 (Carbondioxide) Type/Halotron (Clean Agent) Type	
2	Fireproof suits with masks	
3	Fire hoses	
4	Fire Cylinders	
5	Firefighting foam equipment	

** Note. The cost must include any installation & configuration charges, if applicable.*

Section B (Network Management System)

Serial Number	Item/Short Description	Unit Price
1	<p>A network management system with following capabilities</p> <ul style="list-style-type: none"> • Web based management interface • Customizable dashboard • Can work as a traditional server or virtual appliance (SaaS) • Installable on Windows and Linux flavors • Unified management of entire network comprising of Alcatel-Lucent, D-Link and Aruba network equipment • Integration with 3rd party IPS/IDS solution <p>* Prices must include any installation, configuration and training charges.</p>	

Section C (DC Environment Monitoring Watchdog)

Serial Number	Item/Short Description	Unit Price
1	<p>A DC environment monitoring watch dog with following features</p> <ul style="list-style-type: none"> • Accessible through a web browser • 5 built-in Sensors (Temperature, Humidity, Dew Point, Air Flow, Sound Level) • 3 analog inputs for 0-5 VDC sensors • 5 digital sensor ports for ITW remote sensors • LCD display cycles through sensor readings • Multi level alarms with escalation • Alarm notifications sent by email and SNMP • Audible horn triggered by alarm 	



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ANNEXURE-IV

CONSTRUCTION OF GENERATOR AND STORE ROOM

Rate are required following civil work:

Sr. No	Item	Rate in (Rs) inclusive of all taxes
1	<p>S/F of Generator and store room as specified in Drawing with following detail.</p> <p>The foundation will be 2'x2'x2' of PCC 1:4:8 and all wall shall be at least 2' in Height with BBW in 1:6 csm, plastered on both surfaces.</p> <p>The flooring of generator room will be of two layer (1:4:8=4" layer and PCC 1:2:4 of 3" layer). Over which a clear story of 10' (H) in side with Plain and top with corrugated sheet.</p> <p>The frame will be @5' c/c of pipe section 4"x1.5" x 18 guage and she would be of 26 guage sheet complete including the cost of painting, welding and erecting etc as up to the best satisfaction of the Director.</p>	
<p>Per square feet rate is required.</p>		

Parking shed for Vehicles

Rates are required for the construction of parking shed of following material

Serial Number	Item/Short Description
1	<ul style="list-style-type: none"> • Four (4") dia round poles 16 guage up righted 10 feet in height above than floor level and about one feet and six inches (1'-6") deep in the concrete welded with six (6") square plate at the top and bottom and this plates at the bottom should tiedly fixed with four sides angle flat iron (2" wide and 1/4" thick) plates. All the pipe structure which is deep in the floor should be protected with concrete. • Square pipe (4"x2") 18 guage should be welded at the top frame at all the four side of the main pole. • Square pipe (3"x1") 18 guage should be welded at five feet interval on to the main square pipe. • The CGI sheet 26 guage or as required will be properly clamped with the screws and welded with the top frame. (Complete as per picture enclose).



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ANNEXURE-V

**CUSTOMIZED SOFTWARE FOR ACCOUNTING, PAYROLL, PENSION,
AND ERM SOLUTION**

A Financial Accounting Software solution comprising of following features is required:

Pay Roll Book Keeping services(all primary and Secondary books incl: vouchers)
Weekly, fortnightly and monthly pension reporting
Monthly Trial Balance, Cash Flow, Bank Reconciliation, Balance Sheet, Income Statement & Debtors / Creditors balances report.
Planning, Modeling and Analysis of cost and Economic benefits of Assets
Strategic Planning
Utilization Reports, 3, 6, 9 and 12 monthly
Daily deposits and withdrawals bank report
Budget preparation and Analysis relating to Salaries
Designing and Maintenance of Internal and Accounting systems
Inventory control management (Ware house management) Store
Stock Inward & Outward report
Internal & External Audit (Dealing with Auditors)
Taxation matters (Sales Tax, Income Tax etc)
Standing order payments arrangement
Letter of Credit (L/ C)
Training of Accounts Department Personal
Computerized & Manual accounting system (Remuneration)
Payroll system Inc : Pay roll slips & individual Tax Pay slip, Individual GP Fund Pay & Record, Individual Pension B.Fund Records, Allowances etc
Inventory Management Including Assets recording.
Store Individual and Consolidation Store issue Monthly Report.
Building Management's Capacity in the following areas:
Finance
Human Resource Management



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ANNEXURE-VI

SECTION A: VIDEO CONFERENCING SOLUTION

HD VIDEO CONFERENCING SYSTEM AND INSTALLATION COMPLETE IN ALL RESPECTS.

S. No	Description	Qty
1	<p><u>FULL HD VIDEO CONFERENCING END POINT UNIT (HD CAMERA AND CODEC) WITH FOLLOWING MINIMUM SPECIFICATIONS</u></p> <ul style="list-style-type: none"> • RESOLUTION FULL HD 1080-P • HD MIC PODS . • The video conferencing CODEC providing the built-in multiparty capabilities. (1+3) • Capable of up to 3 other CODECS dialing into the CODEC at 1080P with 30fps • providing transcoding support in a multipoint calls • support for H.239 from any participant in a multiway • supporting 1280x720 resolution with progressive scan @ 60 frames per second and @ 30 frames per second • supporting 02 External full HD displays (1920x1080P) • auto noise reduction, auto gain control and echo cancellation • The HD Camera supporting 10 presets • supporting H.323 & SIP • having HD Audio support for 100HZ to up to 16 KHZ • supporting one-touch external recording with optional equipment. • supporting dial-in recording with optional recording equipment • supporting dial-out recording with optional recording equipment • supporting auto-discovery address / directory look up • supporting HD Mic • system must have a web management interface and SNMP monitoring support. • supporting NAT/Firewall traversal (H.460/SIP) • be Full HD (1080P-30) • supporting bandwidth from 128Kbps – 4.0 Mbps • supports Microsoft OCS • auto bandwidth detection • forward error correction feature • adoptive motion control • supporting 3-Way audio, to maintain speech possibility during play of an external video • support of a single-Cable HDMI connectivity to an HD Display • providing support for sending and receiving of separate streams simultaneously in either a point-to-point or multipoint calls • When experiencing packet loss, the VC CODEC must first attempt to drop the resolution of call & maintain the frame rates. • The VC system must support secure calling using H.235 • The system must support IPV4 and IPV6 	01
02	State of the art - PTZ Camera with Mount (for presenter)	01
03	Multimedia Projector HD minimum 4000 lumens and HD resolution	01
04	55-60 INCHES LED BACKLIT LED TV with Wall mount kit and installation.	01



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05	Moveable wall mount Kit for LED TV Screen 55-60	01
06	Microphones (Gooseneck Mics)	01
07	Instructor's Microphone/ collar mics	01
08	Digital Audio mixer 20 ports, echo cancellation and far end feedback reduction device	01
09	Power Amplifier System	01
10	Ceiling mounted Speakers	01
11	Interactive pen display 17/19 Inch with all accessories.	01
12	Video Cables installation and Commissioning complete in all respects (provide running meter/feet rate)	200M
13	Sound System Cables and installation complete in all respects (from Mics to Sound Mixture and amplifier) (provide running meter/feet rate)	200M

Item wise rates required.

* The Quoted solution should be in compliance with the standards being followed by HEC, PERN connected Universities and particularly by University of Peshawar Video Conference System. It is requested from the bidders to come up with a VC solution capable of scaling with future technologies and advancements in Video Conferencing realm.

SECTION B: SOUND SYSTEM FOR MAIN CONFERENCE HALL

Serial #	Item	Qty
1	Multimedia Projector HD minimum 4000 lumens Optical Display Technology: 0.8" LCD w/ MLA Resolution: UXGA 1600 x 1200 Contrast Ratio (up to): 600:1 Throw Ratio : 1.5 to 2 (standard lens) Projection Distance: 2.5 to 68.5 ft. / 0.74 to 20.9m Projector Angle : 10.3 to 10.8° tele / 13.7 to 14.5° wide Zoom : 1 to 1.33 Focus : Manual Keystone Correction : +/- 40° horizontal, +/- 30° vertical SD/HD Video Signal Compatibility: 480p, 576i, 576p, 720p, 1080i Supported Video Standards: NTSC 4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM PC Signal Compatibility: SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA Input/Output Terminals: VGA 15-pin D-sub, DVI-D w/ HDCP, S-Video, A/V Optional Lenses: separate prices be provided for any optional lenses/accessories	01
2	Projection Screens with wall mount Size Min 10' x 10' Motorized with remote control feature and Ceiling Mount Style: Wall Mounted Material: Matt White Format: 16:9 case color: white Screen gain: 1.1 Viewing angle: 50	01
3	Gooseneck Microphones	01
4	Instructor's Microphone/ collar mics	01
5	Digital Audio mixer 20 ports, echo cancellation and far end feedback reduction device • Frequency Response ○ 0-3db	01



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	<ul style="list-style-type: none"> ○ Micro 100-17000 Hz ○ Aux:40-21000 Hz ● Front / Rear Panel Controls <ul style="list-style-type: none"> ○ 20 microphones level control ○ 1 master gain control ○ 1 Fader and Headset volume ○ 1 bass and treble control each ○ indication lamp ○ power button switch ○ AC in ○ Low/High out put ○ Record Jack ○ Microphones input jack ● Power Supply Requirements <ul style="list-style-type: none"> ○ 110-240 VAC, 50-60Hz ○ Operate-able maximum temperature up to 36oC. 	
6	<p>Power Amplifier System Speaker Rated Output: 120 W to 150 W Input:</p> <ul style="list-style-type: none"> ● 2 program inputs (parallel), 0 dB*, 20 kΩ, balanced ● 2 priority inputs (parallel), 0 dB*, 20 kΩ, balanced <p>Impedance: 83 Ω (100 V) S/N Ratio: 80 dB or more Total Harmonic Distortion: 1% or less (at rated output f = 1 kHz) Frequency Response: 80 - 16,000 Hz, ±3 dB (at 1/3 rated output)</p>	01
7	<p>Wall/Ceiling mounted Speakers</p> <ul style="list-style-type: none"> ● High-performance 40-Watt PA loudspeaker ● Powerful 15" Woofers ● Ultra-wide 50 Hz – 18 kHz frequency range (-10 dB); impedance 4 ohms ● Overload-protection circuitry ensures optimal HF driver protection ● Parallel input connectors allow linking of additional loudspeakers 	01

Item wise rates required.

* The Quoted solution should be complete in all respects of providing adequate sound delivery in every corner of the main conference hall. The bidders are requested to provide details and rates of cash item and any other optional components required for better delivery of sound and echo cancellation.

SECTION C: MULTIMEDIA PROJECTORS AND WALL MOUNTED SCREEN

Serial #	Item	Qty
1	<p>Multimedia Projector HD minimum 4000 lumens Resolution: UXGA 1600 x 1200 Contrast Ratio (up to): 600:1 Throw Ratio : 1.5 to 2 (standard lens) Projection Distance: 2.5 to 68.5 ft. / 0.74 to 20.9m Projector Angle : 10.3 to 10.8° tele / 13.7 to 14.5° wide Zoom : 1 to 1.33 Focus : Manual Keystone Correction : +/- 40° horizontal, +/- 30° vertical SD/HD Video Signal Compatibility: 480p, 576i, 576p, 720p, 1080i Supported Video Standards: NTSC 4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM PC Signal Compatibility: SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA Input/Output Terminals: VGA 15-pin D-sub, DVI-D w/ HDCP, S-Video. A/V</p>	01



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	Optional Lenses: separate prices be provided for any optional lenses/accessories	
2	Projection Screens with wall mount Size Min 8 x 8' Style: Wall Mounted Material: Matt White Format: 16:9 case color: white Screen gain: 1.1 Viewing angle: 50	01
3	Projection Screens with stand mount Size Min 8 x 8' Style: stand mounted Material: Matt White Format: 16:9 case color: white Screen gain: 1.1 Viewing angle: 50	01
4	Projection Screens with wall mount Size Min 20' x 20' Motorized with remote control feature and Ceiling Mount Style: Wall Mounted Material: Matt White Format: 16:9 case color: white Screen gain: 1.1 Viewing angle: 50	01
5	Projection Screens with wall mount Size Min 15' x 15' Motorized with remote control feature and Ceiling Mount Style: Wall Mounted Material: Matt White Format: 16:9 case color: white Screen gain: 1.1 Viewing angle: 50	01
<p>* Bidders are requested to provide NCEG with a video wall solution for main conference hall. The Video wall be consist of at least 4 low-bezel 60" screens (2x2) and be capable of getting video input from multiple sources.</p>		



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ANNEXURE-VII

PARTITIONING OF LABS

- a. Aluminum-Glass Partitioning per square ft. rate is required with 1.66 mm thick aluminum and 5mm thick glass. Rate must include all installation/labour charges. Estimated running sqft could be about 700-1000ft.
- b. False ceiling per square ft rate is required (estimated total area could be about 300-500 sqft). Cast must include all installation/labour charges.
- c. Cable ladder and cable tray (inside IT Centre). Per sqft rate is required. Expected length of the tray could go for about 50 running feet.

GRASS CUTTING MACHINE

Prices are required for Generator/Diesel/Petrol Powered Grass cutting machine (0.5 Horse Power)