

**RAJIV GANDHI UNIVERSITY  
RONO HILLS, DOIMUKH - 791112  
ARUNACHAL PRADESH**

No. RGU/PC/NER-BPMC/DBT-368/2017

Dated the 10<sup>th</sup> July 2017

**Notice Inviting Quotation**

Sealed quotations are hereby invited for supply of the following items/equipment required for a major research Project sponsored by DBT NER, under the Department of Zoology, Rajiv Gandhi University, Doimukh/ Itanagar as per the details shown below with the following terms and conditions (Last date for submission of quotations is on 28<sup>th</sup> August 2017)

Equipments/ Items	Detail specifications	Quantity	Remarks
Horizontal Electrophoresis & accessories	A. Gel tray dimensions 15 x 7, 15 x 10 and 15 x 15 cm approximately. Leak proof modular midi electrophoresis tank for above gel trays with lid and shock proof construction. Gel caster for the above tray sizes either inbuilt or separate assembly. Buffer requirement for the electrophoresis unit should be of minimum volume (Approx. 400-500ml). The gel trays should be UV transparent and ruler on the gel tray for tracking migration. User should be able to view the running samples at any point of time and identify the position of the samples and can easily extract the sample from the tray without using UV source. Should be suitable for Ethidium bromide stained gels. Sample preparatory combs for nucleic acid recovery and multichannel compatible combs for rapid screening of nucleic acid from 96 well plates. Each comb (8, 10, 12, 20 sample wells, 1 mm thick) should be quoted for 2 Nos Inbuilt power supply is desirable. Compatibility to run the precast gels. The precast gels may be quoted in the accessories.	01 set	Pre-installation requirement should be mentioned in the bids. The standard one-year warranty and additional at least one-year free service should be provided after warranty period, the annual maintenance contracts rate for next three years may also be quoted.  <b>EMD: Rs.2000.00</b>
Power pack for electrophoresis system	B. Output maximum (range should be programmable) of 300 V, 700–1000 mA, and 150- 300W. Microprocessor controlled constant voltage, constant current with automatic crossover. Four output terminals pairs to run four systems at a time. Timer fully adjustable. Real time editing function. LED Display Safety features: No-load detection, sudden load change detection, overload/short circuit protection, input line protection, auto power-up after power failure Input protection of Fuse on both hot and neutral. Auto recovery after power failure. Pause/resume function.	01set	
Microtome (semi-automatic) and necessary accessories	<b>Features of the microtome:</b> Section settings (section cutting/trimming) in LCD display. Touch key operated micron settings with LCD display. LED visual limit indicators. Touch key operated trimming, forward & rewind. Reduces hand stress via smooth-running hand wheel. Precise guide way and clamping device for knife holder with optimum sliding capability. Elevating, leveling movements of knife and lateral movements for the sturdy Knife Holder to use complete knife edge. Convenient and accurate specimen advance with equal pressure lead screws for reliability.	01 set	Supplier should have proven track record of after sale service.  <b>EMD: Rs.8000.00</b>

	<p>Balanced flywheel for smooth rotation with locks. A heavy and rigid base to render a shake proof operation. Convenient specimen holder. Easy use universal Microtome Knife &amp; Disposable Blade.</p> <p><b>Technical specification: Section Thickness Indication:</b> Visual LCD display ; <b>Range of section thickness:</b> 0.5 - 99 <math>\mu\text{m}</math> in 1 <math>\mu\text{m}</math> steps; <b>Coarse specimen advance:</b> 1 - 99 <math>\mu\text{m}</math> (adjustable) ; <b>Horizontal specimen feed:</b> 25 mm; <b>Vertical specimen feed:</b> 60 mm; <b>Specimen Orientation:</b> XY axis : +/-8 Degrees,Z axis : 360 Degrees; <b>Convenient specimen Holder:</b> Standard 55 x 55 mm; <b>Knife Holder Base Features:</b> Conveniently suited for :<b>Microtome knives</b> of 100- 300 mm, Standard <b>Disposable blade Holder</b> and at least one pack of high profile 50 blades to be supplied; <b>Displacement with Locks:</b> Lateral Displacement; <b>Adjustment with Locks:</b> North-south Adjustment, East-West Adjustment .</p>		
<b>Wax bath (Auto regulatory)</b>	<p>Double wall construction, inner made out of stainless steel and outer made of mild steel sheet duly finished in powder coating paint. Temperature range ambient to 80 degrees centigrade with accuracy of 1° C and is controlled by thermostat with cups and sleeves for glass tube. At least 12 Cups and 14 sleeves. To work on 220 V Digital Temperature indicator and Digital Temperature regulator system to be present with the equipment.</p>	<b>01 set</b>	<p>After sale service is required from the supplier</p> <p><b><u>EMD: Rs.1000.00</u></b></p>
<b>Mini Generator</b>	<p>Engine: 4 stroke OHV, 45000-60000 rpm; Cooling system: forced air; Ignition system: transistor; Inverter technology; Max.output : 800-2000W,voltage : 230-250V frequency:50-100Hz, operating time: 6-12hrs( Loading @ 1/4-1/2 ; portable within low weight ranges of 12-24 kg; Fuel capacity: 2.0-5.5 Liters. All the necessary accessories should also be quoted.</p>	<b>01 set</b>	<p>After sale service is required from the supplier</p> <p><b><u>EMD:Rs. 2000.00</u></b></p>
<b>Water Analysis (GPS multi-parameter) equipment and accessories</b>	<p><b>pH,pH/mV,ORP,ammonium,Chloride,Nitrate,EC/TDs,Resistivity,salinity,turbidity,DO,atmospheric pressure and temperature measuring equipment;</b> Unit should be waterproof, handheld/portable capable of reading water parameters. The display unit should have backlit facility for easy reading. Should be able to measure Temperature, Dissolved Oxygen, pH, ORP/Redox, Conductivity, DS, Ammonia, Ammonium, Nitrate, Chloride, Built-in barometer.4-10m length cable for field application. Supplied along with PC loaded with required software for data recording and analysis. Recorded readings individually should be stamped with time and date in GLP compliant format. Can be operated in DC or AC power supply</p> <p><b>Measurement range and accuracy:</b>  Dissolved Oxygen (% air saturation-0 to 500% - 0.01mg/l or ppm  Temperature--5 to 70°C - 0.10C  Conductivity-0 to 200 mS/cm 0.05%±1%  Salinity-0 to min 50 ppt - 0.1ppt  pH-0 to 14 units - 0.1  Total Dissolved Solids(TDS)-0 to 100 g/L  Barometer-375 to 825 mmHg  Ammonium-0 to 200 mg/L  N Nitrate-0 to 200 mg/L</p>	<b>01 set</b>	<p>Supplier should have proven track record of after Supporting with documentary proof. sale service.</p> <p><b><u>EMD:Rs. 2000.00</u></b></p>

	<p>N Chloride-0 to 1000 mg/L Should have minimum 1-year onsite warranty AMC terms and conditions beyond the warranty period to be specified All the essential accessories to be supplied with admissible quotes.</p>		
<b>Microscope and its accessories</b>	<p>The microscope having basically bright field -dark field applications automated with 30 W halogen illumination and with LED illumination promote work efficiency with a high level of ergonomic design. Motorized objective turret, automated condenser and automatic light intensity adjustment to the light requirements of individual objectives.</p> <p><b>Microscope stage:</b> Ceramic coat with left/right hand control, rotatable and with torque adjustment. It should be upgradable to DIC application; <b>Illumination:</b> Integrated, Koehler; <b>Source:</b> LED or 12v100W halogen bulb; <b>Contrast methods:</b> bright field, phase contrast and florescence; <b>Focus:</b> Fine, Course, Focus stop and torque adjustment; <b>Objective Nose piece:</b> 7 position objective turret; <b>Condenser:</b> Universal; <b>Objectives:</b> Plan Achromatic 5X, 10X,20X, Uiversal plan Apochromatic 40X,60X and Universal plan apochromatic100X objective oil for better resolution. Provision should be there for florescence with filter blocks and light source.</p> <p><b>Camera:</b> Cooled CCD monochromatic scientific camera suited with low light florescence and bright field imaging with color production. The camera should have minimum 5MP, compatible fps and pixel size. The camera should be of high end lens with ½ inch 1/25 sensor with compatibility. Image capture and analysis software should be there and it should include counting, time lapse recording function, automated multichannel florescence capturing and merging, point to point measurement, annotation and scale bar.</p> <p>Microscope should be accompanied by an imaging/computer system having a configuration of no less than intel i5 processor, 4GB RAM, 1TB HDD, min. display of 18 inch, 1KVA UPS should also be provided for the system.</p>	<b>01 set</b>	<p>Supplier should have proven track record of after sale service in other govt., Institution</p> <p><b><u>EMD:Rs. 8000.00</u></b></p>
<b>Oxygen cylinder (small sized)</b>	<p>These cylinders can be carried on the back within rucksack easily while travelling for live fish collection in remote areas. The cylinder must have a pressure meter, regulator, key, necessary piping and plunger for pouring required volume of oxygen into water filled live fish carrying bags. Should be above portable capacity 1.50ltrs (Gas Capacity 100lt) but easy to carry on back while walking, light in weight so that can be taken away on two wheeler, car , etc etc. Other accessories of cylinder for gas pouring and packing of live fish may also be quoted.</p>	<b>04 sets</b>	After sales service is required

### **Terms and conditions:**

- 1. Bid security/Earnest money as shown against each item** should be submitted along with the quotations favoring: The Registrar, Rajiv Gandhi University, Rono Hills, Payable at SBI Itanagar/Naharlagun or Vijaya Bank, Itanagar/Naharlagun.

2. The rate quoted shall be inclusive of all charges/Taxes (i.e. packing, forwarding, freight, installation and all other incidental charges) i.e **F.O.R. at Rajiv Gandhi University Rono Hills, Doimukh**. The quoted rate should be valid for the current financial year.
3. The last date of receipt of quotation is on **28<sup>th</sup> August 2017 up to 15.00 hrs**
4. Sealed quotation should be submitted to **“The Deputy Registrar, (Projects), Rajiv Gandhi University, Rono-Hills, Doimukh, Itanagar-791112, Arunachal Pradesh”** before the due date and time.
5. Sealed quotation/ Envelope should be super scribed as **(Quotation for Equipment under DBT - NER RGU/PC/NER-BPMC/DBT-368/2017)**.
6. The bidder should quote the rates of Equipment / instruments with model number, its detailed specifications etc. quotations not adhering to the specifications will be out rightly rejected.
7. The bidder must enclose the authorized dealership certificate relevant to items the bidder is quoting for. The authenticity of certificates shall be verified through corporate/regional offices or through proper officiating channels.
8. **GST**  
**Only the registered firms under GST is eligible for Bidding.** Registration Certificate indicating also the GST number of the firm must be clearly mentioned in the quotation. Quotationer's are requested to enclose a self attested copy of their valid certificate of PAN card, and trading license with their tender. Income Tax and other Taxes as applicable shall be deducted from the bills as per the instructions of the Government. (Income tax @ 2 %.). **The Xerox copies of GST and PAN card is mandatory.**
9. Installation and demonstration free of cost by the service engineer of the company.
10. **Warranty:**

(a) Pre-installation requirement should be mentioned in the bids. The standard one-year warrantee and additional at least one-year free service should be provided. After warrantee period, the annual maintenance contracts rate for next three years may also be quoted where ever applicable.

11. Quotations received without Bid Security (EMD) amount by way of Demand Draft or Pay Order/Banker's Cheque in the name of Registrar, Rajiv Gandhi University, Itanagar/ Naharlagun will not be considered at all.
12. No payment will be made for unsatisfactory supply.
13. Incomplete proposals/Quotations received after due date shall not be entertained.
14. Payments terms: 100% payment will be made within 30 days from the date of successful supply or installation as per specification. No advance payment will be made.
15. **Liquidated damages/ Penalty for delayed delivery.** Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In the event of delayed delivery, installation and commissioning i.e. after the expiry of the period as agreed by both the parties, the vendor shall be liable for a penalty deduction at a percentage on the value of the undelivered equipment subject to a maximum of 10% as detailed below.
  - a. @ 2% up to one week
  - b. @ 3 % up to two weeks
  - c. @ 5% up to three weeks
  - d. @ 10% for four weeks and above subject to approval given by RGU Doimukh.
16. . The firm must have the requisite domain expertise regarding supply, installation and after-sale service of the items they are quoting.

17. The firm should have sufficient number of installations of the similar Equipment in the premier Research Institutes in India.
18. Extra charge for installation & demonstration shall not be paid by Rajiv Gandhi University.
19. The feedback from the present users of the similar equipment about the performance, service support, accuracy of result, etc. is to be submitted along with the Tender Document.
20. Incorporate full specification of the items to be supplied in the quotation.
21. The signature on the quotations sent therewith will be deemed to be the authorized signatory of the firm.
22. The offer must be in English. The rates should be indicated both in figures and words. The rates and units shall not be over written, amount shall be both in figures and words. All corrections must be signed in full by the Firm
23. In case of any dispute in respect of the tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.
24. The University may terminate the contract/ supply order in whole / part and forfeit the EMD/ PBG in case the supplier/ vendor fails to meet the contractual obligations.
25. Free training should be provided by the firm / authorized technical persons on the specimen and operation of the equipments immediately after the installation.
26. Quotationer's are requested to enclose a self-attested copy of their valid certificate **of PAN No.GST No.and trading license with their tender.**
27. ***No payment will be made for unsatisfactory supply.***
28. ***The bills may be preferred in the name of Registrar, Rajiv Gandhi University, Doimukh.***
29. Late/delayed tenders received due to any reason whatsoever will not be accepted under any circumstances.
30. The competent authority reserves the right to accept or reject any or all quotations without assignment any reason.

**Registrar, RGU, Doimukh**