

**DEPARTMENT OF ZOOLOGY,**

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**LIMITED TENDER ENQUIRY (Under GFR 151 of 2005)**

**Subject: - Limited tender enquiry for the supply of Equipment for Research Project in the Department of Zoology.**

Sealed quotations are invited from the registered manufacturers/ suppliers in the University. The competitive rates for the supply and installation of instruments/ equipment with the desired specifications as mentioned ahead. Bidder must carefully peruse the general terms and conditions for the supply of them.

The sealed quotations with specifications and offer price should reach to Dr. Santosh Singh, P.I. of the Project, Department of Zoology, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur-495009 within 21 days from the publication of LTE on University's website through speed /registered post/courier only.

<b>S.No.</b>	<b>Equipment</b>	<b>Technical details</b>
<b>01</b>	<b>Multiskan UV/Vis Microplate/ Cuvette Spectrophotometer</b>	Reads: 6-, 12-, 24-, 48-, 96- and 384 well plates. Compatible with Multi-Volume plate for 2 $\mu$ L measurement, as well as BioCell, and Cuvette measurements (optional). Detection method: Absorbance Read Method: Endpoint, kinetic, spectral scanning and well-area scanning. Reading speed: 15 seconds (96 well). Applications: Nucleic acid quantitation, Protein analysis, Spectral analysis, Colorimetric assays, EIAs/ELISAs, Drug dissolution profiles. <b>Wavelength range: 200 – 999nm</b> Wavelength selection: Monochromator, selectable in 1 nm or greater increments. Absorbance range: 0.000 to 4.000 OD. Resolution: 0.0001OD

		<p>Monochromator wavelength Accuracy: <math>\pm 2\text{nm}</math>  Monochromator wavelength Repeatability: <math>\pm 0.2\text{nm}</math>  OD Accuracy: 0 to 2 OD: <math>\pm 1\% \pm 0.010\text{OD}</math>.  2 to 2.5 OD: <math>\pm 3\% \pm 0.010\text{OD}</math>  OD Repeatability: 0 to 2 OD: <math>\pm 1\% \pm 0.005\text{OD}</math>.  2 to 2.5 OD: <math>\pm 3\% \pm 0.005\text{OD}</math>  OD Linearity: 0 to 2 OD: <math>\pm 1\% \pm 0.010\text{OD}</math>.  2 to 2.5 OD: <math>\pm 3\% \pm 0.010\text{OD}</math>  Stray Light: <u>0.03% @ 230nm</u>, Bandpass: 5nm,  Light Sources: Xenon Flash Lamp.  <b>Pathlength Correction</b> (Pathlength correction automatically normalizes well absorbance to standard cuvette equivalent pathlength of 1cm for direct quantification)</p> <p><b>Includes: Microplate Data Analysis Software.</b></p> <p>Weight: 14lbs (6.35kg), Power: 100-240 VAC, 50-60Hz.</p>
02	Semi-Microbalance	<p>Semi- micro balance with monolithic technology (weighing cell robotically etched from a single piece of metal, it provides better accuracy, fast response time and exceptionally high ruggedness.), built in motorized calibration and adjustment function, isoCAL (this means the balance will automatically perform calibration and subsequent adjustment whenever the ambient temperature changes by a certain amount, or when a factory- set time interval has elapsed.) 7 segment LCD display (16.5mm), two large tare keys, stability indicator, 4 user selectable filter levels, plus optimized display update rate.</p> <p><b>Feature:-</b></p> <ul style="list-style-type: none"> <li>• Bidirectional RS- 232 data interface port.</li> <li>• Microprocessor controlled instant data display.</li> <li>• Triangular weighing pan shape- Two tare keys.</li> <li>• Large LCD display- ISP/ GLP- complaint printing/recording of weighing and calibration data when a printer or computer is connected to the balance.</li> <li>• Built- in adjustment weight.</li> <li>• Overload protection – Lug for anti-theft locking device.</li> <li>• Levelling feet; level indicator, dust cover.</li> <li>• Auto internal Calibration &amp; Adjustment.</li> <li>• AC adapter.</li> <li>• Integrated application programs (net total, weighing in percent, counting, animal weighing, mass unit conversion by toggling etc.)</li> <li>• Dust cover.</li> </ul> <p><b><u>Technical parameters:-</u></b></p>

		<ul style="list-style-type: none"> <li>• Capacity : 100/220g</li> <li>• Readability : 0.01/ 0.1 mg</li> <li>• Tare range (subtractive) : 220 g</li> <li>• Response time (avg.) : 6/3 s</li> <li>• Repeatability : <math>\leq \pm 0.05/0.1</math> mg</li> <li>• Linearity : <math>\leq \pm 0.1/0.2</math> mg</li> <li>• Pan size (inner circle diameter) : 80 mm (triangular weighing pan shape.)</li> <li>• Weighing chamber (W x D x H) : 174 x 181 x 240 mm</li> <li>• Operating temperature range : + 10 ....+ 30 ° C</li> <li>• Power requirements : AC adapter, 230 V or 115 V, + 15%...- 20 % (protection rating IP20) 50-60 Hz</li> </ul>
<b>03</b>	<b>Deep freezer (-20)</b>	<b>500L</b>
<b>04</b>	<b>Micro-centrifuse</b>	<b>24 well rotor, 24 X 1.5ml with Tapered bottom Polypropylene tubes &amp; reduction adaptors of 1ml &amp; 0.4ml, Max. Speed RPM: 11850, Max. RCF 'g': 13400</b>

**LIMITED TENDER ENQUIRY  
GENERAL TERMS AND CONDITIONS OF THE SUPPLY**

- 1.** The sealed quotation is superscripted with "**Quotation for supply of Equipments under Research Project**".
- 2. Quantity:** One for mentioned each items but may be altered at the time of placing the purchase order.
- 3. Product Leaflet/ Handbook:** Duly certified copy of the Technical brochure/leaflet etc. of the quoted equipment/ instrument must be submitted along with the quotation, by the bidder.
- 4. Authorization Certificate:** It is desired that the bidder submits, self attested authorization certificate from the principal manufacturer, for which the rate has been quoted.
- 5. Discount, if any:** special concession/discount (if any) applicable for educational institutions, if any, must be clearly mentioned in the price bid.
- 6. Excise duty exemption:** the University is exempted from Custom/Excise Duty by DSIR, Govt. of India vide letter no. TU/V/RG-CDE (710)/2010 dated 19-1-11. The exemption certificate of the same shall be issued by the University on demand, at the time of supply. Bidder must clearly mention if any basic custom duty/ excise duty etc. is chargeable, in spite of the GGV is exempted by DSIR certificate.
- 7.** If the item is under DGS&D rate contract, the quoted price should not be more than the DGS&D rate
- 8. FOR GGV:** The rate should be quoted on F.O.R University campus, Koni, Bilaspur basis. No packing/ forwarding, unloading, transit insurance charges will be paid extra to the bidder by GGV. All extra charges have to be borne by the supplier/bidder only.
- 9. No Installation charges:** The Equipment/ Instrument must be delivered, installed and demonstrated without any extra charges from the GGV.

**10. Validity of the offered Rate:** The quoted rate should be valid for a minimum period of 90 days from the last date of receipt of the tender, as notified.

**11. Delivery period:** The Equipment/ Instrument, ordered will have to be delivered and installed in the Department at GGV, within 60 days from the issue of the Purchase Order.

**12. Liquidated Damages (LD):** Any delay in supplying the ordered equipment/instrument from the stipulated date of delivery will attract LD, which will be applicable at the rate of 0.5% per week and limited to 10% maximum. The authority reserves the right to cancel the purchase order when LD accumulates to 10%.

**13. Warranty:** At least one year comprehensive on-site warranty shall be applicable to the supplied equipment/instrument for all manufacturing defects from the date of satisfactory installation, commissioning, demonstration by the supplier and acceptance by GGV.

**14. Performance security:** The successful bidder must submit performance security of 5 % of the ordered value, on the goods/services supplied irrespective of the origin, within fifteen days of issue of purchase order in form of Demand Draft/TDR/Bank guarantee from any nationalized bank. Otherwise, the same amount will be deducted from the billed amount. On satisfactory completion of the warranty period of 01 year (12 months) or more period as offered by the bidder, Performance Security will be released without any interest on demand.

**15. Payment:** Bidder should not ask for advance or part payment prior to supply and successful installation. Payment to the firm shall be made, only after the supply in good condition, installation and demonstration of the equipment/instrument at GGV.

**16. CST/VAT etc:** CST/VAT/OCTROI/ basic custom duty etc. must be clearly mentioned along with the quoted offer, weather to be paid extra or not. GGV shall pay the same as per prevailing government rules, if mentioned in the price bid. No taxes shall be paid if not mentioned in the bid and any correspondence in this regard shall be not entertained after the price bids are opened.

**17. Unsealed quotations:** Quotation must be sealed properly. Unsealed envelopes/ offers are liable to be rejected by GGV.

**18. Offer after due date:** GGV shall not be responsible for late postal delivery and any offer received after the due date shall be summarily rejected by GGV. You Sealed offer must reach on or before the scheduled due date only by the speed/registered post.

**19.** GGV has all the rights reserved to accept / reject any /all the quotation(s) and not to procure any/all the equipments/instruments, without assigning any reason(s) thereof.

**20.** The bidder should check the university website [www.ggu.ac.in](http://www.ggu.ac.in) on a regular basis for any updates.

**PI of the project**  
**(Dr. Santosh Singh)**  
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School of Life Sciences  
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