



**Department of Rural Technology and Social Development**  
**Guru Ghasidas University, Bilaspur (CG) 495009**  
( A Central University established by the Central Universities Act, 2009 No. 25 of 2009)

**Dated: 05-11-2014**

**Notification for Limited Tender Enquiry**

**For purchase of: Semi Automatic Serum Biochemistry Analyzer & Electrolyte Analyzer**

**Department: Department of Rural Technology and Social Development**

**Enquiry No: SKN/UGC-MRP/RT/14      Dated: 05-11-2014**

To  
All Registered Vendor of GGV, Bilaspur  
DGS & D/NSIC/Kendriya Bhandar

Dear Sir,

Please provide quotations for supply & installation of Laboratory Instruments/equipments as mentioned below in the prescribed proforma (Annexure- I) in favour of Registrar, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) so as to reach to the name of Dr SK Nirala (PI), Department of Rural Technology and Social Development, Guru Ghasidas University, Koni – Bilaspur 495009 (CG) on or before 22/11/2014 through Speed post/Registered post only:-

<b>Item No.</b>	<b>Description/specification of Lab Instruments (please provide separate quotations for each instrument)</b>	<b>Qty</b>
1	<b>Name of instrument: Semi Automatic Serum Biochemistry Analyzer</b>  <b>Technical specifications:</b>  <b>Assay Types / Modes:</b> 7 Modes(End point, Fixed Time, Rate, Multi Standard, Absorbance Sample Blank and Sample Blank Non linear) <b>Programmable Tests:</b> =/>100 <b>Sample type:</b> Serum / Urine / Plasma / Body fluids / Hemolysate <b>Measurement methods:</b> Monochromatic and Bi-chromatic <b>Range of Absorbance:</b> 0- 0000 to 3.0000 O.D <b>Resolution:</b> 0.0001 <b>Wavelengths(Filter wheel):</b> 7 filters (340, 405, 505, 546, 578, 620, 670 nm) and 1 Free position <b>Stray Light:</b> $\geq 2.3$ Abs <b>Delay/Incubation Time:</b> 3 – 999 secs <b>Read Time:</b> 3 – 999 secs for End point and 30 – 999 seconds for Kinetic / Fixed time <b>Aspiration volume:</b> 200 – 1500 $\mu$ l <b>Types of Cuvettes:</b> Quartz Flowcell 6mm Polystyrene Cuvette	One

	<p><b>Flowcell Volume:</b> 32 <math>\mu</math>l</p> <p><b>Air Purge:</b> Variable (To reduce carry over and cross contamination)</p> <p><b>Cross contamination:</b> &lt; 1%</p> <p><b>Flow Cell Temperature:</b> 25°C, 30°C, 37°C (Peltier controlled)</p> <p><b>Incubator:</b> 4 inbuilt positions (37°C)</p> <p><b>Light Source:</b> 6V, 10W Quartz Halogen Lamp (Life span &gt;3000 Hours)</p> <p><b>Photodiodes:</b> One Silicon Photodiode</p> <p><b>Display:</b> High Resolution 240 x 128 dots graphical LCD with LED backlight</p> <p><b>Keyboard:</b> QWERTY keypad</p> <p><b>Printer:</b> In built 384 dots Thermal printer</p> <p><b>PC Communication:</b> 9 Pin D Type Serial Connector RS 232 Port</p> <p><b>PC Software:</b> A CD of software should be provided with analyzer</p> <p><b>Memory:</b> FLASH</p> <p><b>Storage:</b> 200 Patient Reports, 300 QC Data, 3 Months QC Data</p> <p><b>Result Reports:</b> Collated by ID, Date and Test</p> <p><b>Quality Controls:</b> Daily and Monthly for 3 levels with LJ Plot</p> <p><b>Graph:</b> On line graph for kinetic and fixed time method</p> <p><b>Operating Voltage:</b> 230VAC, 50Hz, 50W max</p> <p><b>Storage temperature:</b> - 10°C to 40°C</p> <p><b>Operating Environment:</b> 10°C to 35°C</p> <p><b>Humidity:</b> <math>\leq</math> 80% RH</p> <p><b>Language Supported:</b> English</p> <p><b>Warranty:</b> At least 2 years from the date of installation</p> <p><b>Different test kits:</b> Two packs for each parameter in large sized pack given below:</p> <ol style="list-style-type: none"> <li>1. AST</li> <li>2. ALT</li> <li>3. ALP</li> <li>4. LDH</li> <li>5. GGT</li> <li>6. Bilirubin</li> <li>7. Hyaluronic acid</li> <li>8. HDL</li> <li>9. LDL</li> <li>10. TG</li> <li>11. Cholestrol</li> <li>12. Total Protein</li> <li>13. Albumin</li> <li>14. Glucose</li> <li>15. Creatine kinase</li> <li>16. Lipase</li> <li>17. Amylase</li> <li>18. Urea</li> <li>19. Creatinine</li> <li>20. Uric acid</li> </ol>	<p>Two kits for Each Parameter</p>
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02	<p><b>Name of instrument: Electrolyte Analyzer</b></p> <p><b>Technical Specifications-</b></p> <p><b>Parameters:</b> K, Na, Cl, Ca and pH</p> <p><b>Principle:</b> Ion Selective Electrode (ISE)</p> <p><b>Sample:</b> Serum, Plasma, Whole Blood, Cerebrospinal Fluid (CSF)</p> <p>And diluted urine</p> <p><b>Measuring speed:</b> ≤ 25 seconds</p> <p><b>Sample:</b> 50- 150 µl</p> <p><b>Sample position:</b> Quantilyte- 35 positions (including 1 QC)</p> <p><b>Storage:</b> Quantilyte Upto 10,000 test results</p> <p><b>Reagent pack:</b> Test reagent should be in separate bottles</p> <p><b>Keypad:</b> Simple YES/ NO Keys</p> <p><b>Printer:</b> Internal thermal printer and programmable multi formate printout</p> <p><b>Interface:</b> RS232</p> <p><b>Operating temperature:</b> 10<sup>0</sup>C to 30<sup>0</sup>C</p> <p><b>Relative humidity:</b> ≤ 70%</p> <p><b>Quality control:</b> Store 1 month QC data, L-J chart print</p> <p><b>Atmospheric pressure:</b> 86- 106 kPa</p> <p><b>Power supply:</b> 220V ± 22V, 50 ± 1 Hz</p> <p><b>Power:</b> ≤ 120 W</p> <p><b>Warranty</b> 2 years</p> <p><b>Diluter for test</b> At least for 300 tests</p>	One
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**General terms & conditions of the supply:**

1. It is a single bid; please give all technical specifications and price bid in one envelope.
2. The sealed quotation should be super-scribed with **“Quotation for supply & installation Laboratory Instruments; Vide enquiry No & dated”**.
3. Warranty of at least two years must be provided.
4. The Cost of the equipment/instrument/article should be inclusive of all taxes and statutory levies. Labour / installation charges, packing, insurance, freight etc. should be mentioned separately (inclusive of all taxes liveable on them).
5. **Validity of rate:** The quoted rate should be valid for a minimum period of 90 days.



**Principal Investigator**

**ANNEXURE – I**

Item no.	Description/specification of the Instruments	Qty	Rate	Vat Taxes	Remark

I ----- declare that the enquiry will be valid for 6 months.

Date:

Signature of the tenderer  
(With stamp/seal of the firm)