



No: MRV/PHY/YVU/DST/EMR/2017-18/3-Equip-ECWS

Date: 06<sup>th</sup> November, 2017.

**Quotation invited**

Sir,

Sub: Department of Physics, Yogi Vemana University, Kadapa – Supply, Installation of “Electrochemical Workstation, its analyzing software, required accessories, etc.” for DST-SERB Project – Call for Quotations – Req. - Reg.

Ref: (i). No: YVU/KDP/DEVP/MRV/Physics / DST-EMR / Manpower notification / 2017-18, Dt:04-11-2017.

(ii). Vice-Chancellor orders dated: 03-11-2017.

You are requested to send your lowest price quotation in duplicate towards the supply and installation of “Electrochemical Workstation, cell kit, analyzing software, required accessories, etc.” with the following specifications listed below with terms and conditions so as to reach to and in the name of “The Registrar, Yogi Vemana University, Vemanapuram, Kadapa-516 003, Y.S.R. Dist, A.P., India” on or before 20<sup>th</sup> November, 2017. Any postal delay is not entitled.

Sl.No	Equipment/item	Detailed / Particular specifications
1.	Electrochemical Workstation, cell kit, analyzing software, required accessories, etc.	<p>Electrode configuration: 2,3,4 terminals (WE, CE, RE, S)            Compliance voltage: <math>\pm 10</math> V            Current : minimum <math>\pm 30</math> mA            (power configurations : <math>\pm 30</math> mA @ <math>\pm 10</math> V)            Applied potential ranges: <math>\pm 4</math> volts and <math>\pm 10</math> Volts            Applied Current ranges: <math>\pm 1</math> pA to minimum <math>\pm 30</math> mA in multiple ranges            Current Resolution: 0.000015% of current range            Potential resolution: 0.000015% of potential range            Current accuracy: 0.2%            Potential accuracy: 0.2%            AC Amplitude: 1 Volt and 100% of current range            Electrometer Bandwidth: &gt;15 MHz  <b>Frequency range: 10 <math>\mu</math>Hz to 3 MHz or above</b>  <b>Signal acquisition: High resolution 24 bit</b> or better at 100 KHz sampling rate            Input Impedance: 1 Tera Ohms            Scan rate: Fast rate up to 10KV/sec            Auxiliary inputs: 4 analog inputs for external signals  <b>Having Port connection for connecting Programmable Light sources (with 7 LEDs), SUN Solar Simulator for Solar test cells durability, etc. measurements.</b>  <b>Equipment, its software compatible for measures:</b>            Cyclic Voltammetry, LSV and other linear techniques            Battery testing and Super capacitor testing, characterization, etc.            Pulse Techniques and Coulometry techniques            Corrosion measurement &amp; analysis and EC Noise techniques with FFT, MEM, etc. Electro-deposition, Coating studies, Photovoltaic solar cell testing (I-V), EIS Impedance measurement &amp; analysis, etc.  <b>(Electrodes:</b> Glassy carbon working electrode, Ag/AgCl reference electrode, Platinum wire counter electrode and a glass cell).            PC Interface: USB. Windows PC is required.  <b>Software compatibility:</b></p> <ul style="list-style-type: none"> <li>• Fully compatible with Windows 8/10 based computer.</li> <li>• Graphical, numerical data will be transferable to ASCII/MS-EXCEL.</li> <li>• Multiple data files/graphs of present, previous experiments could be viewable and/or overlaid at one place to easy access for compare data.</li> <li>• Control is possible from LabVIEW, C, etc.</li> </ul>

The sealed quotation should invariably be super scribed as “Quotation for supply, installation of Electrochemical Workstation, cell kit, analyzing software, required accessories, etc.” against enquiry No: No: MRV/PHY/YVU/DST/EMR/2017-18/3-Equip-ECWS, Dt:06-11-2017. You are also requested to send full details like catalog, etc (if any). Quotations include, terms and conditions, unit price, taxes/duties, warranty period, validity of quotation, payment mode, transport charges, etc.

(Dr.M.RAGHAVENDER).

Dr. M. RAGHAVENDER  
Assistant Professor  
Principal Investigator  
DST(SERB)-EMR project



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No: MRV/PHY/YVU/DST/EMR/2017-18/4-Equip-DB

Date: 06<sup>th</sup> November, 2017.

**Quotation invited**

Sir,

Sub: Department of Physics, Yogi Vemana University, Kadapa – Supply, Installation of “Digital balance, required accessories” - DST-SERB Project – Call for Quotations – Req. - Reg.

Ref: (i). No: YVU/KDP/DEVP/MRV/Physics / DST-EMR / Manpower notification / 2017-18, Dt:04-11-2017.

(ii). Vice-Chancellor orders dated: 03-11-2017.

You are requested to send your lowest price quotation in duplicate towards the supply and installation of “Digital balance, required accessories” with the following specifications listed below with terms and conditions so as to reach to and in the name of “The Registrar, Yogi Vemana University, Vemanapuram, Kadapa-516 003, Y.S.R. Dist, A.P., India” on or before 20<sup>th</sup> November, 2017. Any postal delay is not entitled.

SI.No	Equipment/item	Particular specifications
1.	“Digital balance, required accessories”	<p><u>Detailed Specification:</u></p> <p><b>DIGITAL ANALYTICAL BALANCE</b> <b>Make : Mettler</b> <b>Model : ME204</b> <b>Part No: 30046413</b></p> <p><b><u>SPECIFICATIONS :</u></b></p> <p>Maximum Capacity : 220g Weighing platform dimensions <math>\emptyset</math> : 90mm Readability : 0.1mg Repeatability (s) : 0.1mg Linearity : 0.2mg Settling time : 2s Sensitivity temperature drift : 2.0ppm/°C Weight of balance : 4.7 kg (ME) / 4.5 kg</p> <p><b><u>APPLICATIONS:</u></b> Formulation, totaling, dynamic weighing, piece counting, density, percent weighing, check weighing, statistics, dosing, free factor.</p>

The sealed quotation should invariably be super scribed as “Quotation for supply, installation of Digital balance, required accessories” against enquiry No: MRV/PHY/YVU/DST/EMR/2017-18/4-Equip-DB, Dt: 06-11-2017. You are also requested to send full details like catalog, etc (if any). Quotations include, terms and conditions, unit price, taxes/duties, warranty period, validity of quotation, payment mode, transport charges, etc.

(Dr.M.RAGHAVENDER).

Dr. M. RAGHAVENDER  
Assistant Professor  
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No: MRV/PHY/YVU/DST/EMR/2017-18/5-Equip-DHAO

Date: 06<sup>th</sup> November, 2017.

### Quotation invited

Sir,

Sub: Department of Physics, Yogi Vemana University, Kadapa – Supply, Installation of “Digital hot air oven, required accessories” - DST-SERB Project – Call for Quotations – Req. - Reg.

Ref: (i). No: YVU/KDP/DEVP/MRV/Physics / DST-EMR / Manpower notification / 2017-18, Dt:04-11-2017.

(ii). Vice-Chancellor orders dated: 03-11-2017.

You are requested to send your lowest price quotation in duplicate towards the supply and installation of “Digital hot air oven, required accessories” with the following specifications listed below with terms and conditions so as to reach to and in the name of “The Registrar, Yogi Vemana University, Vemanapuram, Kadapa-516 003, Y.S.R. Dist, A.P., India” on or before 20<sup>th</sup> November, 2017. Any postal delay is not entitled.

Sl.No	Equipment/item	Particular specifications
1.	“Digital hot air oven, required accessories”	<u>Detailed Specification:</u> <ul style="list-style-type: none"><li>• Laboratory Oven chamber inner size of 350 x 350 x 350 mm (WxLxH).</li><li>• Oven outer size 500 x 500 x 500 mm (WxLxH).</li><li>• Two trays of SS mesh.</li><li>• Hot air ovens are sturdy double walled Units</li><li>• Inner chamber made of M.S. and outer made of mild steel with power coating gap between the walls fitted with special heat insulation to avoid heat losses.</li><li>• Temp range 50°C to 300°C and accuracy <math>\pm 2^\circ\text{C}</math></li><li>• With Programmable Controller (PID controller).</li><li>• Temp. Controlled By Digital Temperature Controlled by Microprocessor based digital temperature controller (Selectron make).</li><li>• Power wattage of 2KW on three or four sides.</li><li>• Outer body is white in color (preferable).</li></ul>

The sealed quotation should invariably be super scribed as “Quotation for supply, installation of Digital hot air oven, required accessories” against enquiry No: MRV/PHY/YVU/DST/EMR/2017-18/5-Equip-DHAO, Dt: 06-11-2017. You are also requested to send full details like catalog, etc (if any). Quotations include, terms and conditions, unit price, taxes/duties, warranty period, validity of quotation, payment mode, transport charges, etc.

(Dr.M.RAGHAVENDER).