

**OFFICE OF THE PRINCIPAL GOVERNMENT ENGINEERING
COLLEGE JAGDALPUR (C.G.)494005**

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INVITATION FOR QUOTATION

TEQIP-II/2014/CG1G02/Shopping/

25-Feb-2016

To,

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	DATA acquisition system	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
2.	Displacement measurement tutor using LVDT	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
3.	Pressure measurement tutor using pressure transducer	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
4.	Strain measurement tutor using strain cantilever beam	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes

5.	Torque measurement tutor using torque transducer	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
6.	Temperature measurement tutor using RTD sensor	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
7.	Temperature measurement tutor using thermocouple	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
8.	Temperature measurement tutor using thermister	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
9.	Angular measurement tutor using angular sensor	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
10.	Rotameter trainer module	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
11.	Bourdon Gauge trainer	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
12.	Sine Bar	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
13.	Set of slip gauge	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes
14.	Snap and ring gauges (GO and NO GO Type)	1	45	Govt. Engineering College Jagdalpur, Distt. Bastar, (C.G.) 494005	Yes

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase II** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
 - 3.1 The contract shall be for the full quantity as described above.
 - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - 3.4 Applicable taxes shall be quoted separately for all items.
 - 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - 3.6 The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.
6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

 - 6.1 are properly signed ; and
 - 6.2 confirm to the terms and conditions, and specifications.
7. The Quotations would be evaluated for all items together.
8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

 - 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
 - 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

9. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
10. You are requested to provide your offer latest by **16:00** hours on **29 march 2016**.
11. Detailed specifications of the items are at Annexure I.
12. Training Clause (if any) **Required**
13. Testing/Installation Clause (if any) **Yes**
14. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
15. Sealed quotation to be submitted/ delivered at the address mentioned below,
Government Engineering College, Jagdalpur, Dhramapura-3, Jagdalpur, Bastar
17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

S.No.	Name of Equipments	Specifications																				
1.	DATA acquisition system	<p>Data acquisition (DAQ) is the process of measuring an electrical or physical phenomenon such as voltage, current, temperature, level, flow, pressure or sound with a computer. Data Acquisition Trainer consists of A/D converters and D/A converters to measure the input from different sensors. Data Acquisition Trainer is accompanied with a powerful Graphical Software to represent the values, acquired from sensors, in real time.</p> <p>Technical Features</p> <ul style="list-style-type: none"> Processor : 8-bit RISC based Digital In : 16 Channel Digital Out : 16 Channel Analog In : 8-Channel Multiplexed A/D Converter : 10-Bit Analog Out : 8-Channel D/A Converter : 8 Bit Serial SPI <p>PC Interface : USB-UART with data acquisition software</p>																				
2.	Displacement measurement tutor using LVDT	<p>5 Channel Digital Load Indicator, 3.5 Digital Displacement Indicator.</p> <p>Displacement Sensor Calibration Jig.</p> <p>Displacement Sensor (L.V.D.T.)</p> <ul style="list-style-type: none"> i. ± 1 mm ii. ± 5 mm iii. ± 20 mm iv. ± 50 mm v. ± 100 mm 																				
3.	Pressure measurement tutor using pressure transducer	<p>Channel digital pressure indicator 3.5 digit display</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">Pressure</td> <td style="width: 20%; text-align: right;">Transducer</td> </tr> <tr> <td>i. 1</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>ii. 2</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>iii. 5</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>iv. 10</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>v. 20</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>vi. 50</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>vii. 100</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>viii. 500</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> <tr> <td>ix. 1000</td> <td style="text-align: right;">Kg/Cm^2</td> </tr> </table> <p>Dead Weight Pressure Gauge Tester Range : 0 - 50 Kg/Cm^2. Tester provided with a gauge connector of $\frac{1}{2}$" BSP & complete with one set of weights in a storage box. 1 dust cover , 1 Instruction manual & a tool box containing 1 Pointer of 1.2" & 3.8" BSP 4 Spanners & a set of spare seals.</p> <p>Linear Variable Different Transformer (L.V.D.T.) Piezoelectric Transducer Pressure Transducer Set Well type Manometer, Bourdern Tube Element Bellcro Element, Diaphragm Element, Strain Gauges, Diaphragm type pressure gauges</p>	Pressure	Transducer	i. 1	Kg/Cm^2	ii. 2	Kg/Cm^2	iii. 5	Kg/Cm^2	iv. 10	Kg/Cm^2	v. 20	Kg/Cm^2	vi. 50	Kg/Cm^2	vii. 100	Kg/Cm^2	viii. 500	Kg/Cm^2	ix. 1000	Kg/Cm^2
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		Pressure Transducer (without indicator 0 - 10 Kg/Cm ² .)
4.	Strain measurement tutor using strain cantilever beam	<p>a. Strain measurement with the help of resistance wire strain gauges weights, microvoltmeter & null balancing arrangement for bridge circuit : 1 Set.</p> <p>Accessories include a cantilever beam mounted with strain gauges, weights, microvoltmeter & null balancing arrangement for the bridge circuit.</p> <p>i. Digital strain Indicator 3.5 digit L.C.</p> <p>ii. Strain Gauge Kit with accessories for mountin</p> <p>iii. Cantiliner Jig</p> <p>iv. 10 Channel bridge balancing & switching unit</p> <p>v. 10 Channel bridge balancing & Amplifier Unit.</p> <p>vi. Carrier Frequency Amplifier</p>
5.	Torque measurement tutor using torque transducer	<p>5 Channel Digital Load Indicator, 3.5 Digital Torque Indicator.</p> <p>Torque Transducers :</p> <p>i. 1 Kgm</p> <p>ii. 2 Kgm</p> <p>iii. 5 Kgm</p> <p>iv. 20 Kgm</p> <p>v. 50 Kgm</p> <p>vi. 100 Kgm</p> <p>D.C. Motor of 1 Kw., 220 V., 1500 RPM. with Dimmerstat for speed variations. D.C. shunt Generator coupled with 2 Kw., 220 V., 1500 RPM., D.C. Shunt Generator. Control Panel consisting of starter for D.C. Motor Field Regulator for motor & generator, Ampermeter Voltmeter etc. Torque & speed sensor for above with indicator.</p>
6.	Temperature measurement tutor using RTD sensor	<p>Temperature Measurement Trainer to measure temperature upto 100°C small heating source, and digital indicator is provided to read the temperature.</p> <p>Sensors : RTD</p> <p>Temperature Range : 100°C</p> <p>Indicator : 3½ digit to read upto ±1999 Counts</p> <p>Thermocouple Type : J-type Fe/K [J-Type]</p> <p>RTD : pt-100</p> <p>Thermister : 10 K ohms@25°C [NTC-Type]</p> <p>Power Supply : 230V ±10%@50 Hz</p> <p>Accessories : Water Heater (kettle)</p> <p>Glass bead thermometer (110°C)</p>
7.	Temperature measurement tutor using thermocouple	<p>Temperature Measurement Trainer to measure temperature upto 100°C small heating source, and digital indicator is provided to read the temperature.</p> <p>Sensors : Thermocouple</p> <p>Temperature Range : 100°C</p> <p>Indicator : 3½ digit to read upto ±1999 Counts</p> <p>Thermocouple Type : J-type Fe/K [J-Type]</p>

		<p>RTD : pt-100 Thermister : 10 K ohms@25°C [NTC-Type] Power Supply : 230V ±10%@50 Hz Accessories : Water Heater (kettle) Glass bead thermometer (110°C)</p>
8.	Temperature measurement tutor using thermister	<p>Temperature Measurement Trainer to measure temperature upto 100°C small heating source, and digital indicator is provided to read the temperature. Sensors : Thermister Temperature Range : 100°C Indicator : 3½ digit to read upto ±1999 Counts Thermocouple Type : J-type Fe/K [J-Type] RTD : pt-100 Thermister : 10 K ohms@25°C [NTC-Type] Power Supply : 230V ±10%@50 Hz Accessories :Water Heater (kettle) Glass bead thermometer (110°C)</p>
9.	Angular measurement tutor using angular sensor	<p>To study of servo potentiometer as angular displacement measurement transducer Full 3600 rotation servo potentiometer Op amp in signal conditioner circuit offset adder for position modulation Calibrated dial with 10 resolution 3.5 digit DPM to read displacement Cal constant Built in IC regulated power supply Detailed instruction manual.</p>
10.	Rotameter trainer module	<p>High precision properly calibrated rotameter suitable for 1" size pipe line having 4.2 to 42 LPM capacity. M.S. reservoir of size 0.4 m (w) x 0.35 m (h) x 0.8 m (L) with gauge glass & scale fitting, drain valve of ½ " size & a bend., M.S. collecting as well as measuring tank of size 0.5 m length x 0.35 m width x 0.35 m height with bypass arrangement & drain valve of 1" size. A gauge glass & scale fitting are fitted on measuring tank for discharge measurement. ½ " HP high head monoblock pump for water circulation. Strong iron stand to support the unit. Entire unit is powder coated with good colour combination. Instruction manual 1 copy.</p>
11.	Bourdon Gauge trainer	<p>Bourdon Gauge Trainer comprising of bourdon pressure gauge fitted on a pressure chamber, a displacement sensor is attached to the edge of the bourdon tube to sense the deflection of the bourdon tube due to pressure. The displacement indicator is provided to measure the deflection of the tube in terms of pressure and also in mm. Capacity : 15 PSI Diflection Sensor : LVDT ±2.5mm Master Gauge : Bourdon pressure gauge(30 PSI)4" dial</p>

		Pressure Source : Pressure tank capacity 10Kg/cm ² Display Resolution : Displacement 0.1mm Pressure : 1 PSI Display: 3½ digit LED Display. Power Supply : 230V 50 Hz Accessories : Foot air pump Necessary cables.
12.	Sine Bar	Size 200 mm
13.	Set of slip gauge	Set of 46 Pieces, Packed in Wooden Case.
14.	Snap and ring gauges (GO and NO GO Type)	Snap Gauge : Range : 25 to 50 mm in Step of 5 mm. Ring Gauge : 1 - 25 mm in steps of 1 mm. Tolerance H7 grad.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____