



No.GCOEARA/Store/2018/ 6807

Date :

- 2 NOV 2018

**QUOTATION**

Sub: Quotation for purchase of equipment.( for Mechanical Engineering)  
( Due Date 22.11.2018)

Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with specification	Quantity required	Estimated cost
1	Experimental setup for verification of flexural formula 1) Weights and corresponding deflection measuring instrument like dial Gauge. 2) Stresses and strain measuring instrument like strain gauge, 3) Beam should accommodate all types of end conditions (like simply supported, fixed at one end or at both end etc.)	1	80000
2	PLC Trainer PLC unit of modular construction. Analog: 2channel, 2 input, 1 output. 14 channel input + 10 channel output ( optically isolated ). Input volatge: 24V DC for relay operation. Input : 8 LED indication on panel. Output : 8 LED indication on panel. CPU / Memory : 8 bit Micro - controller with RAM & EPROM memory. PC Link : UP / DOWN loading from PC through RS232/USB link. Software : Documentation support software on CD (With ladder diagram programming software). Additional conectivity/control of modules such as : Temperature Control. Stepper motor speed and direction control. Lamps ON / OFF control. LVDT Control. With 1 common unit of power supply to module(s). Compatibility to Automation Studio available in lab	1	171600

**TERMS AND CONDITIONS**

- The bid/quotation should be submitted in two bid format.
- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.
  1. Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
  2. GST registration certificate/ Number
  3. GST Clearance Certificate/ GST Challan for last quarter of the Financial year.
  4. Authorization/ Distributorship certificate from manufacturer. Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).
  5. Technical literature / leaflet of the make and model no of equipment quoted .

Additional document may also be asked by undersigned for confirming the details.

- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.				

Date -  
Place -

(Signature)  
Rubber Stamp of organisation

- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial), Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before dt. **22.11.2018**-
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 11 AM on date **26.11.2018**
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs.
- Delivery to the consignee has to be effected within 4 weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.



( Dr. A.S. Pant )  
Principal

Govt. College of Engineering & Research,  
Awasari khurd



No.GCOEARA/Store/2018/ 6807

Date : **E 2 NOV 2018**

### QUOTATION

Sub: Quotation for purchase of equipment.( for Applied Science )  
( Due Date **22.11.2018**)

Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with specification	Quantity required	Estimated cost
1	Verification of Brewster's law setup Brewster's law setup with spectrometer, prism, and supporting apparatus	3	80400
2	Digital Spectro Photometer 340-960 nm	1	41654
3	Ultrasonic Interferometer- Ultrasonic Interferometer- mains Voltage - 220 V, 50Hz, Measuring frequency - 2MHz, Fuse- 500mA, Max. displacement of the reflector - 20mm, Required Qty of liquid- 12 c.c., Least Count of micrometer- 0.01 mm, length of connecting cable between the generator and cell is 50cm approximately	1	37800
4	Digital Conductivity meter Digital Conductivity meter (3 and half digit LED display, max measuring range- 5simens	1	8900
5	Digital P.H.meter (pH range 0-14, accuracy $\pm 0.05$ pH, resolution- 0.01pH)	1	16500
6	He-Ne laser with power supply- Maximum Output- 2mW, Red Colour	1	27500
7	Sound level meter - 32 to 150 dB with data logging	1	11200
8	Newton's ring apparatus- Newton's ring apparatus- with Travelling microscope (least count 0.001cm), Planoconvex lens and set reflector, condensor etc.	3	13500
9	Digital Top pan Balance 100gm	1	7000
10	Digital Top pan Balance 300gm	1	8000
11	Forbidden Energy band gap setup Forbidden Energy band gap setup with 2 Voltmeter(0-20 V), Micro ameter(0-100 micro amp), Ge OR Si Diode, Thermometer (0-120 oc), Heating arrangement , connecting wires etc.	1	7500
12	Solar cell I-V characteristics kit, Solar cell I-V characteristics kit, with Solar Cell, Voltmeter (0-10 V), Milliammeter (0-25 mA), Separate light source with wodden scale,connecting wires etc.	1	7100

### TERMS AND CONDITIONS

- The bid/quotation should be submitted in two bid format.
- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.
  1. Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
  2. GST registration certificate/ Number
  3. GST Clearance Certificate/ GST Challan for last quarter of the Financial year.
  4. Authorization/ Distributorship certificate from manufacturer. Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).

5. Technical literature / leaflet of the make and model no of equipment quoted .

Additional document may also be asked by undersigned for confirming the details.

- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.				

Date -

Place -

(Signature)

Rubber Stamp of organisation

- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial), Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before dt. ~~22~~ 21.11.2018.
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 11 AM on date. **26.11.2018**
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs.
- Delivery to the consignee has to be effected within 4 weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.

(Dr. A.S. Pant)

Principal

Govt. College of Engineering & Research,  
Awasari khurd



No.GCOEARA/Store/2018/ 6809

Date :

- 2 NOV 2018

**QUOTATION**

Sub: Quotation for purchase of equipment.( for Workshop)  
( Due Date 22.11.2018)

Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with specification	Quantity required	Estimated cost
1	Sheet rolling machine- Roller length minimum 6ft, minimum 4 mm thick sheet rolling capacity. Power operated, Rolling diameter range between 25 cm to 2000 mm approx.	1	100000
2	Pedestal Sheet shearing machine. Sheet shear length 4ft, minimum 2 mm thick sheetshearing capacity, manually operated	1	45000

**TERMS AND CONDITIONS**

- The bid/quotation should be submitted in two bid format.
- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.
  - Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
  - GST registration certificate/ Number
  - GST Clearance Certificate/ GST Challan for last quarter of the Financial year.
  - Authorization/ Distributorship certificate from manufacturer. Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).
  - Technical literature / leaflet of the make and model no of equipment quoted .

Additional document may also be asked by undersigned for confirming the details.

- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.				

Date -

Place -

(Signature)

Rubber Stamp of organisation

- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial), Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before dt. 22.11.2018-
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 11 AM on date. 26.11.2018
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs.

- Delivery to the consignee has to be effected within 4 weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.



( Dr. A.S. Pant )

Principal

Govt. College of Engineering & Research,  
Awasari khurd



No.GCOEARA/Store/2018/ 6810

Date :

- 2 NOV 2018

**QUOTATION**

Sub: Quotation for purchase of equipment.( for Automobile Engineering)  
( Due Date 2.11.2018)

Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with specification	Quantity required	Estimated cost
1	Car Washer: Displacement (lpm):17, Delivery per gun (lpm):17 No. Of Guns:1 , No. Of Plungers:3, Operating Pressure (Bar):45 Motor Power (Hp):3 , Pump Speed (rpm):1440	1	50000
2	Fluid Flywheel- Model made of original used parts. Sutaibly sectioned and arranged to demonstratre the internal construction deatils showing system.Model should be shuitably painted and the entire model mounted on sturdy M.S. Frame powder coated.	1	48999
3	PROFILE PROJECTOR AND TOOL MAKERS MAICROSCOPE FOCUSSING :THROUGH RACK AND PINION SYSTEM SCREEN :ANTIGLARE HARD GLASS 220MM DIA.WITH THE CROSS LINE ,360 DEGREE ROTABLE. NOSEPIECE: SINGLE NOSE Magnification: 10 x, 20 x, 50 x & 100 x, Work Stage: 150x150 mm with X-Y movement of 25x25 mm. Working distance: 30 mm approx. under 10x magnification, Micrometer: Zero adjustment, 25 mm graduation with least count 0.005 mm, Illumination: Counter illuminator of 12 V-100 W & 2 surface lamps of 6 V/20 W. Optional: Vinyl Cover, duster & fuse 2 nos. Accessories: Objective 40 x, 80 x, Halogen Bulb, Digital Micrometers	1	65000
4	Floating Carriage Effective Diameter Measuring Machine CAPACITY : DIA. 75 MM:, Admit Between Centre (Length): 100 mm, Maximum Diameter : 75 mm, Digital Micrometer L.C. 0.001 mm : 0 to 25 mm, Dial Type Fiducial Standard Accessories, Male & Female Centre : 1 Pair, Hooks & Pillars for Holding Wire :1 Set, Setting Master : 1 No., Prism Set - D Type :1 Pair, Thread Plug : 1 No., TWO WIRE SET : 1 PAIR	1	48000
5	Standard Microstructure Specimen Set 01) Dead Mild Steel 02) Low Carbon Steel 03) Medium Carbon Steel (Annealing) 04) Medium Carbon Steel (Normalizing) 05) Decarburised High Carbon Steel 06) Inclusion in Steel 07) Hardened Steel, 08) Tempered Steel 09) Carburised Steel 10) Tool Steel 11) Gray Cast Iron 12) White Cast Iron, 13) Mottled Cast Iron 14) Ductile Cast Iron 15) Cartridge Brass 16) Muntz Metal 17) Tin Bronze 18) Electroplated Component 19) Anodised Aluminium 20) Fusion Welded Mild Steel 21) Friction Welded Steel 22) Powder Metallurgy Comp. 23) Deformed Mild Steel	1	32000
6	Rockwell hardness tester, Manually Operated, Manually Operated, Preliminary Test Force - 98.07 N (10kgf), Additional Test Force - 490.3, 882.6, 1373N (50.90, 140 kgf) Total Test Force - 588.4, 980.7, 1471N (60,100,150 kgf)	1	45000

**TERMS AND CONDITIONS**

- The bid/quotation should be submitted in two bid format.

- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.

- Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
- GST registration certificate/ Number
- GST Clearance Certificate/ GST Challan for last quarter of the Financial year.
- Authorization/ Distributorship certificate from manufacturer, Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).
- Technical literature / leaflet of the make and model no of equipment quoted .

Additional document may also be asked by undersigned for confirming the details.

- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.				

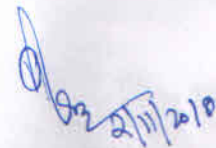
Date -

Place -

(Signature)

Rubber Stamp of organisation

- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial). Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before dt. **22.11.2018**-
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 11 AM on date **26.11.2018**
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs.
- Delivery to the consignee has to be effected within 4weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.



( Dr. A.S. Pant )

Principal

Govt. College of Engineering & Research,  
Awasari khurd





No.GCOEARA/Store/2018/ 6811

Date :

- 2 NOV 2018

**QUOTATION**

Sub: Quotation for purchase of equipment.( for Civil Engineering)  
( Due Date 22.11.2018)

Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with specification	Quantity required	Estimated cost
1	Tile (Roofing and Flooring) Flexural Testing Machine Tile (Roofing and Flooring) Flexural Testing Machine: Test rig should be as per IS: - 1237-1980 The equipment consist of two bearing rollers and a third self aligning loading roller, all 25 mm., in diameter. The center to center distance between bearing rollers can be set at 150, 200 or 250 mm., The loading is through double lever loading system by means of a steady flow of lead shot from a lead shot container to a receiver hung on the lever system. The rate of flow of lead shot is adjustable as per required rate of loading., The flow of lead shot stops automatically on failure of test specimen and the breaking load can be calculated by multiplying the weight of lead shot in the receiver by the lever ratio i.e. 12., Maximum capacity of the machine is 2 kN., Lever ratio is 1 : 12., Supplied complete with 20 kg lead shot.	1	70000
2	Abrasion Testing machine for Tiles Abrasion Testing machine for Tiles: Test rig shall be able to conducts test as per IS: 1237 and IS: 1706, It should consists of the following: - A grinding disc furnished with a replaceable grinding path and rotating horizontally about its vertical axis., A circular tray enclosing, holding device for test specimen., Reduction gear coupled to a motor for operation on 415 V, 50 Hz, 3 phase, AC Supply. Revolution counter. (Preset cumulative). A 7.5 Kg weight, abrasive powder and thickness gauge.	1	80000
3	Vibration Machine Vibration Machine meant for vibrating the cement mortar should confirm to IS: 10080, IS: 4031 (Part VI) and able to produce mix in moulds at a frequency of 12,000 ± 400 cycles per minute. The vibrator should be mounted over coiled springs and the vibrations are developed by means of a revolving eccentric shaft. The centre of gravity of the vibrator, including the cube and mould, should be either at the centre of the eccentric shaft or within 25 mm below it. The machine should facilitate easy assembly and dismantling of the cube moulds.	1	60000
4	Vibration Table Vibration Table meant for compacting cement concrete should confirm to IS: 2514. Size of vibrating table top should be 1 m X 1 m for 16 concrete cube moulds of 150 mm size. The table top shall be constructed from steel plate of not less than 10 mm thickness or equivalent material and shall be suitably braced and stiffened to vibrate evenly so that there is no significant variation in the vibration characteristics of the table top. The frequency of vibration for the table operating at its maximum load capacity shall be between 3 000 to 6 000 cycles per minute. The vibration acceleration of the table operating at its maximum load capacity shall not be less than four times the acceleration due to gravity. The table top should be equipped with assembly to hold cube moulds in order to prevent moulds from sliding off the table during operation.	1	85000
5	Noise Level Meter Noise Level Meter: It should have digital display featuring: a wide range of 35 to 130dB; Accuracy: +/-1.5dB; Frequency range: 31.5HZ to 8.5KHZ; Sampling time: 2 times /sec; Power supply: 9V batteries	1	7000
6	High Volume Sampler High Volume Sampler :Flow Rate: 0.9 – 1.4 m <sup>3</sup> /min free flow;	1	45000

	Particle Size: Particles of 10 microns & below collected on Filter Paper holder. SPM bigger than 10 microns collected in a separate sampling bottle under the cyclone;. Sampling Time: 28 hours (maximum);, Sampling Time Record: 0 to 9999.99 hrs. recorded on a Time Totalizer; Automatic Sampling: 24 hrs programmable timer to automatically shut off the system after pre set time interval; Stabilizer: Voltage stabilizer provided to compensate voltage fluctuation; Power Requirement: Nominal 220 V, Single Phase, 50Hz AC mains supply.		
7	Digital Dissolved Oxygen (DO) Meter Range D.O. 0 to 20.0 mg; Resolution D.O. 0.1 mg; Accuracy D.O. 0.1 mg + 1 count; Temp. Compensation 0o C to 50o C Manual; Compensation D.O. + 3%; D.O. Sensor type D.O. Amperometric Gold/Silver membrane; Display 3 1/2 digit LED display; Power 230V A.C. 50 Hz; DO Electrode 1 Nos; D O Membranes 10 nos	1	20000
8	Impact of Jet on Vanes Impact of Jet on Vanes: General Requirements: The apparatus should consist of a cylindrical acrylic vessel. Water is fed through a nozzle and discharged vertically to strike a target carried on a stem which extends through the cover. Force of the jet is measured by the simple calculating moments about fixed fulcrum. Technical Specifications:- Set of Nozzle: 4 mm and 8 mm (Brass). Set of Vanes: Hemispherical, flat and inclined plates. Jet collection tank : 250 mm Diameter Material of Construction for jet collection tank: Perspex. Sump tank capacity : 75 liter with Matt Buffing. Measuring tank (with piezometer) capacity : 35 liter Material of Construction for sump and measuring tank: Stainless Steel-304 with Matt Buffing. Pump : Monoblock type, 0-60 liter/min. Motor 0.5 HP. Piping with necessary Valves and Fittings. Digital Stop Watch with 1/10 second accuracy.	1	75000
9	Marshall Stability Test Apparatus Marshall Stability Test Apparatus: The apparatus should comprise of: i) A motorized loading unit of capacity 50kN. The load frame should have a fixed speed of 5.08cm per minute and should be operational on 230 Volts A.C.; ii) Compaction pedal with specimen mould holder (01 Number); iii) Compaction Rammers of 4.5kg weight and free fall of 45.7cm (02 Number); iv) Breaking head assembly with provision to fix flow meter (01 Number); v) Specimen mould 10.16cm internal diameter x 7.6cm high with base plate and extension collar (03 Number);vi) Kit for specimen extraction consisting of load transfer bar, steel ball, specimen extracting plate (01 Number); vii) Accessories : Integral type proving ring of capacity = 30 kN, a dial gauge 0.01 x 25mm, stainless steel water bath with false bottom and pyramid shaped lid to accommodates 3 number of marshall specimen, and thermometer 0 - 250oC (Least count = 1oC)	1	150000

#### TERMS AND CONDITIONS

- The bid/quotation should be submitted in two bid format.
- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.
  1. Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
  2. GST registration certificate/ Number
  3. GST Clearance Certificate/ GST Challan for last quarter of the Financial year.
  4. Authorization/ Distributorship certificate from manufacturer. Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).
  5. Technical literature / leaflet of the make and model no of equipment quoted .

Additional document may also be asked by undersigned for confirming the details.

- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.				

Date -

(Signature)

Place -

Rubber Stamp of organisation

- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial), Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before **dt. 22-11-2018-**
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 11 AM on date. **26.11.2018**
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs.
- Delivery to the consignee has to be effected within 4weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.

( Dr. A.S. Pant )

Principal

Govt. College of Engineering & Research.  
Awasari khurd



# GOVT. COLLEGE OF ENGINEERING & RESEARCH,

AWASARI (KHURD), TAL. AMBEGAON, DIST. PUNE - 412405

Tel. No. 02133-230582, E-Mail - [gcoeara@gmail.com](mailto:gcoeara@gmail.com), Website : [www.gcoeara.ac.in](http://www.gcoeara.ac.in)

No.GCOEARA/Store/2018/ 6812

Date :

- 2 NOV 2018

## QUOTATION

Sub: Quotation for purchase of equipment.( for Instrumentation & Control Engineering) ( Due Date 22.11.2018)

Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with specification	Quantity required	Estimated cost
1	89C51RD2 Kit Technical Specifications on board:Speed : 16 MHz crystal I/O Pins: 48 I/O lines through 2 Nos. of 26 pin FRC header. Serial Interface: RS-232c serial interface, Parallel Interface: 25 pin male D connector for JTAG based programming.Display facility: 16 X 2 LCD (Backlit) , 16 X 2 Jumbo LCD (Optional) 20 x 4 LCD (Optional), Key Board: Keyboard interface to support 101 keys PC AT/PS2 keyboard.Battery Backup Lithium battery (3V/48mAH) provided to supply power to RTC.	2	26000
2	AVR Kit 8535 Speed : 16 MHz crystal, I/O Pins: 48 I/O lines through 2 Nos. of 26 pin FRC header. Serial Interface: RS-232c serial interface Parallel Interface: 25 pin male D connector for JTAG based programming. Display facility: 16 X 2 LCD (Backlit) , 16 X 2 Jumbo LCD (Optional) 20 x 4 LCD (Optional) Key Board: Keyboard interface to support 101 keys PC AT/PS2 keyboard.Battery Backup Lithium battery (3V/48mAH) provided to supply power to RTC.	2	34000
3	Temperature Measurement Setup Using RTD (PT 100) Input Range: 0 to 100° C, Output Range: 0 to 100mV Indicator Least Count: 1°C, Display: DPM (3 1/2 Digit) Power Supply : +/- 12V DC	2	30000
4	Temperature Measurement Setup Using T/C (J/K/R/S) Range: Grade Wire -346 to 1400°F, OR -210 to 760° C Indicator Least Count: 1°C, Display: DPM (3 1/2 Digit) Power Supply : +/- 12V DC	1	15000
5	Thermocouple Calibrator Oprating Temp: -10° C to 55° C/ -200° C to 1800° C Depending on type, Accuracy:0.3° C +10µV, Resolution:0.1° C Display : 5 DIGIT LCD Display, Battery Type: Single 9V Battery	1	19000
6	Digital TechoMeter Contact Type Display: 5Digit LCD Display, Sampling Time: 1sec( over 60rpm), Test Range: Auto Ranging, Range: 5-999.9 rpm Accuracy: +/- (0.05%+ 1 Digit), Resolution: 0.1rpm(5-999.9 rpm) Resolution:1rpm(Above 1000 rpm),Battery: 4x1.5V AA Battery	1	3000
7	Digital TechoMeter Non-Contact Type Display: 5Digit LCD Display, Sampling Time: 1sec( over 60rpm)Test Range: Auto Ranging, Range: 5-999.9 rpm Accuracy: +/- (0.05%+ 1 Digit), Resolution: 0.1rpm(5-999.9 rpm) Resolution:1rpm(Above 1000 rpm), Battery: 4x1.5V AA Battery Detecting Distance: 50-500mm	1	3000

8	<p>X-Y Recorder  Fast Pen Response, Slewing Speed of 2200 mm/sec (86.6 in/sec) in the Y-Axis, 2000 mm/sec (78.7 in/sec) in the X-Axis  High Acceleration, 7.6 G in the Y-Axis and 5.1 G in the X-Axis  (One-Pen Model)±0.2% Accuracy (RD3023/24), ±0.25% Accuracy (RD3025) 50 µV/cm Max Sensitivity  50 µV/cm Max Sensitivity  Trouble-Free Electrostatic Paper Hold Down with Back-Lighted LED for Accurate Paper Alignment  10 Scales of Calibrated Offset (Std), 16 Speeds of Time Base (Standard on RD3023/24, Optional for RD3025)  Remote Control of Sweep Start and Reset, and Pen Lift by External Contact or TTL Level Signals</p>	1	12000
9	<p>Universal Digital IC Tester  1. Tests Digital and Analog ICs from 3 to 40 Pins.  2. Built in self-diagnostic functions to ensure error free testing of IC. 3. 16 character x 2 line back-lit LCD display and sealed Membrane type Alpha-numeric keyboard, 4. Automatic testing of variety of ICs., 5. 2 Nos. of potential free 40 pin ZIF sockets for testing analog and digital ICs., 6. IC Pack: Digital ICs up to 40 pins and analog ICs up to 20 pins in DIP package. 7. IC Type: Tristate, Open collector &amp; bi-directional TTL / CMOS digital ICs also analog ICs as per list., 8. ZIF: Two 40 pin DIP ZIFs for analog and digital ICs. 13. Key: Membrane type Alpha Numeric, 50 keys Keyboard. , 9. Display: 16 character x 2 line back-lit LCD  10. Power Supply: 180 to 270 V AC, 50Hz single phase.</p>	1	31000
10	<p>Digital Flame Photometer  Supplied with two filters (Na and K) , 2 1/2 Digit LED Display, Oil Free Air compressor, Air Filter with Pressure Regulator &amp; Gauge, Atomizer Tube, Gas Lighter, Sample Beaker (05 Nos), LPG Tube, Air line PU Tube etc  Technical Specification : Range : Na, K, &amp; Li :1-100 ppm and Ca:15-100 ppm Sensitivity : Na, K, &amp; Li :0.5 ppm and Ca:15 ppm Linearity : &lt; 3% Reproducibility : 2% CV for 20 samples Detector : Photo Cell Ignition System : Manual Ignition Flame System : LPG &amp; Dry Oil Free Air Gas Control : Adjustable with Knob Automiser : Axial Flow Type Oil free Air Compressor : Supplied with Built-in Air Filter with Pressure Regulator &amp; Gauge to deliver stable and moisture / oil free air supply. Power Supply : 230 VAC ±10%, 50 Hz Optional : Li Filter Ca Filter Auto shut off at power off for LPG Gas Line</p>	1	30000
11	<p>Sensor Lab- On board display : 7" capacitive Connectivity : USB &amp; Ethernet Square Wave Generator : up to 40KHz Low Pass Filter : up to 30KHz High Pass Filter : after 40KHz Inverting Amplifier : Variable Gain 1-10 Non Inverting Amplifier : Variable Gain 2-10 Differential Amplifier : Variable Gain 1-10 Instrumentation Amplifier : Variable Gain 10-20 F/V converter : 1KHz -1V 10 KHz -10V V/F Converter : 1V - 1KHz 10V - 10 KHz A/D Converter : 4 Channel (0-5V) D/A Converter : 1 Channel (0-3.3V)  Input/Output Ports : 4-IP / 4-OP Operating Voltage Range 0 - 3.3V LM35 : 10mV/ °C Platinum RTD : 100 at 0°C (Temp. coefficient 0.385 Ω /°C) K Type Thermocouple : -200°C to 1250°C BP NT X65 Photo Diode C Thermistor : : 500nm - 1100nm 4.7KΩ L14G1 Photo Transistor : 500nm - 1100nm Photovoltaic Cell : 500mV - 580mV 2mm interconnection sockets: 85 nos Power Supply : 100V - 240V AC, 50/60Hz  ( ) o Operating Conditions : 0-40 C, 85% RH Power Supply -1no. Patch cords 16" (2mm) -10nos</p>	1	90200

### TERMS AND CONDITIONS

- The bid/quotation should be submitted in two bid format.
- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.
  1. Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
  2. GST registration certificate/ Number
  3. GST Clearance Certificate/ GST Challan for last quarter of the Financial year.
  4. Authorization/ Distributorship certificate from manufacturer. Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).
  5. Technical literature / leaflet of the make and model no of equipment quoted .

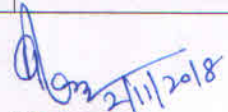
Additional document may also be asked by undersigned for confirming the details.

- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.				

Date -

Place -

  
(Signature)

Rubber Stamp of organisation

- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial), Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before **dt. 22.11.2018-**
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 11 AM on date. **26.11.2018**
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs.
- Delivery to the consignee has to be effected within 4 weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.

( Dr. A.S. Pant )

Principal

Govt. College of Engineering & Research,  
Awassari khurd



No.GCOEARA/Store/2018/ 6813

Date :

1-2 NOV 2018

QUOTATION

Sub: Quotation for purchase of equipment.( for E& TC Engineering)  
( Due Date 22.11.2018)

Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with specification	Quantity required	Estimated cost
1	<p>4G Communication System Technical Specifications: GSM - Band (2 / 3 / 5 / 8); WCDMA - Band (1 / 2 / 5 / 8);4G VoLTE (TDD) - Band (38 / 40 / 41),LTE (FDD) - Band (1 / 3 / 5 / 7 / 8 / 20) Tx/Rx Frequency band : GSM/GPRS/EDGE,(850, 900, 1800, 1900 MHz),UMTS/HSPA+ (850, 900, 1900, 2100 MHz),4G VoLTE (B1, 3, 5, 7, 8, 19, 20, 28, 38, 40), Output power : +5... +33dBm/3.2mW... 2 W,OS &amp; Processor Features .Operating system : Android Nougat 7.0, System Architecture : Qualcomm Snapdragon 430,Processor core : Octa Core Processor clock speed : 1.4 GHz,GPU : Adreno 505 at 450 MHz,Display Features,Display size : 5 inch. Touch screen .Resolution : 1920 x 1080,Resolution type : Full HD, 441 ppi.Other display features : IPS display, 5 point multi-touch,Memory &amp; Storage Features,Internal storage : 16 GB,RAM : 3 GB, Expandable storage : 128 GB,Memory card type : Micro SD,Connectivity Features ,Supported networks : 4G VoLTE (Cat 4),UMTS/HSPA+GSM/EDGE,Internet connectivity: 4G, 3G, Wi-Fi, EDGE, GPRS, Pre-installed browser: Android, Micro USB port: Yes ,Bluetooth support: YesBluetooth version: BR/EDR+BLE 4.2</p> <p>Features: • Supports to 4G VoLTE (Cat 4), 3G (UMTS/HSPA+), 2G(GSM/EDGE) Networks • 5" Touch screen full HD display • Full understanding of 4G Dual SIM VoLTE SmartPhone working principle and signals • Easy measurement of voltages and observation of waveforms on test points • Soldering free fault creation and troubleshooting • Android based application development, IoT related application development</p>	1	85600
2	<p>TMS320C6748 DSP Development Kit • TMS320C6748 micro controller (200MIPS/180MHz) based on ARM926EJ-S core., • DDR-II SDRAM - 128MB, 16 bit • NAND FLASH - 4Gb, 16 bit, • Stereo Audio CODEC - Audio In, Audio Out, MIC In, • Video Decoder,• VGA Out • USB to Serial Interface,• DIP Switch,• Status LED's • 10/100 Mbps Ethernet with RJ45 Jack,• One USB HOST • One USB OTG • Micro SD/MMC Connector, • SATA Connector, • 14 Pin JTAG Header, • Expansion Header • Reset Push Button, • Power Management 5V/1.5A Power Supply Adapter, • Dimension - 180 x 155 mm, • JTAG Emulator</p>	2	70000
3	<p>ARM7 core based LPC2148 Development Board • Based on the LPC2148 (ARM7 core) microcontroller from NXP running @72 MHz • On board 16x2 Character LCD., • Two Multiplexed Seven Segment Displays, • Eight general purpose LED's, • 16 key matrix keypad arranged in 4x4 matrix., • SD Card over SPI</p>	2	30000

	<ul style="list-style-type: none"> <li>• Stepper Motor and DC Motor interface with L293 Driver</li> <li>• On Board I2C based EEPROM.</li> <li>• On Chip RTC with CMOS Battery power backup.</li> <li>• UART with on board USB-Serial converter for PC Connectivity.</li> <li>• UART with RS232 transceiver and DB9 connector.</li> <li>• On Board LM35 Temperature sensor input.</li> <li>• On-board Zigbee(XBEE) module connector.</li> <li>• Relay with terminal connector.</li> <li>• Tactile Switch for generating external interrupt event.</li> <li>• Reset switch and Power Switch.</li> <li>• Two on chip ADC Channels interfaced to adjustable voltage sources</li> <li>• On Chip DAC output on connector.</li> <li>• Buzzer connected to GPIO pin.</li> <li>• On chip USB Device connected to USB-B connector.</li> <li>• Port P0 and P1 Pins on FRC Connectors.</li> <li>• Dual Power selection : USB or 12V SMPS.</li> <li>• Standard 20 pin JTAG interface connector.</li> <li>• 128x64 Graphical LCD</li> </ul>		
4	Three Phase Auto Transformer - Three Phase, 0-470 V	1	15000
5	Single Phase 1 KVA, 230V Transformer (Resistive lamp load 230V, 15A with arrangement of ammeters & voltmeter)	1	21000
6	Variable DC Rectifier -0-230 V, @ 20A	1	45000
7	Video processor kit/card- DSP based Video processing card	1	40000

#### TERMS AND CONDITIONS

- The bid/quotation should be submitted in two bid format.
- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.
  1. Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
  2. GST registration certificate/ Number
  3. GST Clearance Certificate/ GST Challan for last quarter of the Financial year.
  4. Authorization/ Distributorship certificate from manufacturer. Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).
  5. Technical literature / leaflet of the make and model no of equipment quoted .

Additional document may also be asked by undersigned for confirming the details.

- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.				

Date -

Place -

(Signature)

Rubber Stamp of organisation

- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial), Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before **dt. 22.11.2018**-
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 11 AM on date **26.11.2018**
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs.



- Delivery to the consignee has to be effected within 4 weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.



( Dr. A.S. Pant )

Principal

Govt. College of Engineering & Research,  
Awasari khurd