

INVITATION FOR QUOTATION

TEQIP-III/2018/duie/Shopping/20

03-Jul-2018

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	Cathode ray oscilloscope with function generator.	4	30	Director, DUIET, Dibrugarh University, Assam.	Yes
2	Damped LCR circuit with sine wave oscillator	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
3	He-Ne laser	2	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes

4	Joule's calorimeter	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
5	kerr cell,Beam splitter	1	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
6	Meldes string apparatus	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
7	Newton's ring Apparatus	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
8	Newton's law of cooling apparastus	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
9	Newtons ring arrangements	5	30	Director, DUIET, Dibrugarh University, Dibrugarh,	yes

				Assam	
10	NPN junction transistor	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
11	optic fibre cable with photo detector	1	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
12	Plane transmission Grating with light source.	3	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
13	polariser ,analyder ,photodetector.	1	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
14	Ressonance tube	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
15	Searle's apparatus	5	30	Director, DUIET, Dibrugarh	yes

				University, Dibrugarh, Assam	
16	Solar cell	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
17	Thermocouple, temperature bath with heating arrangement.	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	yes
18	Torsional pendulum	5	30	Director, DUIET, Dibrugarh University, Dibrugarh, Assam	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 III** 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 45 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. Payment shall be made in Indian Rupees as follows:
- Delivery and Installation - 100% of total cost**
- Satisfactory Acceptance - 0% of total cost**
10. All supplied items are under warranty of 36 months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by 16:00 hours on 18-Jul-2018 .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) yes
14. Testing/Installation Clause (if any) yes
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,
Dibrugarh University, Dibrugarh, Assam- 786004.
17. We look forward to receiving your quotation and thank you for your interest in this project.


 (Authorized Signatory)

Name & Designation

Annexure I

Director
 Dibrugarh University Institute of
 Engineering & Technology
 Dibrugarh University
 Dibrugarh-786004, Assam (INDIA)

Sr. No	Item Name	Specifications
1	Cathode ray oscilloscope with function generator.	Cathode ray Oscilloscope (30 MHz) Vertical Deflection: Deflection Coefficient: 5mV to 5 V/div, 10 calibrated steps 5mV/div to 5 V/div in 1-2-5 seq Accuracy: $\pm 2\%$ Time Base: Time Coefficient: 18 calibrated steps in 1-2-5 seq 0.1 μ s/div to 0.1s/div Accuracy: $\pm 2\%$ Hold off time: Variable control to app 1:10 Display: 8 x 10 cm Should be provided with BNC cables and instruction manual Function Generator: Frequency: 0.3 Hz - 3 MHz Waveform: Sine Square Pulse Ramp/Triangle Amplitude: 2mVpp to 10Vpp (50ohms) Necessary cables and instruction manual should be provided with
2	Damped LCR circuit with sine wave oscillator	The Kit should consists of One board having following Build in parts. a. Three resistances b. Three

		capacitances c. Three inductances d. Ammeter e. Voltmeter f. Sine wave oscillator (100 Hz-100 kHz) g. Instruction manual
3	He-Ne laser	<p>The kit should consist of : Diode Laser Peak wavelength :635nm Operating voltage :5V DC Operating current :250 mA Optical power :0.4-0.8 mW Laser product :Class II Operating temp.:0-40oC He-Ne laser Wavelength :632.8nm Working current :4mA-6mA Output power :>2mW Working time :>8hrs Working voltage :AC220 V±22V Input Power :<2W Dimension :300×62×82mm</p> <p>Optical bench triangular Material :Aluminum extrusion Type :Triangular shape Scale :0-100cm Least count :1mm Object Screen Material : Translucent, Acrylic. Size : 300×300mm Diffraction slits set Frame Size :50mm×50mm Slit: Width=0.06mm and Separation=0.20mm (Single, Double, Three, Four, Five and Six) Coarse Grating-1: 4 lines/mm, line/space ratio 3:1 Coarse Grating-2: 4 lines/mm, line/space ratio 6:1 Coarse Grating-3: 8 lines/mm, line/space ratio 3:1 Diffraction grating:80lines/mm Diffraction grating : 300lines/mm Single slit : Tapered Double slit : Tapered Metal gauze : 300 mesh Circular apertures : 1.0, 0.60, 1.40, 0.30mm Polaroids : 50mm×50mm linearly polarized Lens in holder Focal length Dia. -10cm 40 6cm 40 +10cm 40 +20cm 40 Slit holder with mounting rod Clear Aperture :45×45mm Object holder :Clip type Prism Table with mounting rod Disc :75mm diameter Cylindrical Base Material : Ferrous Mount : Rod 10-14mm dia : Flat object up to 10mm Groove : Slide object, 30×10mm(L×W) Instruction manual should be provided</p>
4	Joule's calorimeter	The kit should contain Two metal container one placed inside the other with air insulation and covered with a lid Resistance coil mounted through socket in the lid

5	kerr cell, Beam splitter	Power supply Instruction manual
		<p>The kit should consist of: Kerr Cell Electrode gap: 1 mm Voltage limit: 5 KV DC max Halogen light source Halogen bulb :12V, 50W Operating voltage :12V, 5A Optical bench triangular Material :Aluminum extrusion Type :Triangular shape Scale :0-100cm Least count :1mm Transversal slider with proper height and base which can be fitted in the bench (1 No) Material :Aluminum extrusion Least count :0.01mm Fixed Slider with proper height and base which can be fitted in the bench (4 Nos) to hold lens, detector, polarizers, object screen, Kerr cell etc. Material : Aluminum extrusion Fixed Slider large width (01 No) to hold lamp Material :Aluminum Extrusion Photo Detector with rod Detector : silicon photocell Terminals : with safety socket Aperture :1mm Object Screen with rod Material :MS sheet High Voltage power supply Input Voltage:230VAC, 50Hz Output Voltage:0-6 KV DC 6.3V AC/2Amp Display :3 1/2 digit LED Current limit :50µA and 2mA(max) Power supply Output : 2, 3,4,5,6,8,10 and 12 VAC full wave rectified D.C. Input : 230 V AC,50 Hz Polarizer/Analyzer (02 Nos) with rod Angle :Adjustable (0o-90o) Frame : blackened, to avoid scattering of light Least count :1o Convex Lens in holder with rod Focal length : 100mm All the optical components like lens, polarizers should have compatible dimension Power cord Current :6Amp max Voltage:250Vmax Length:3mtr.approx Pins : Neutral, Face, Earth Connecting lead Length :100cm Type :Banana plug Digital Multimeter Digital Display :3999(max) Direct current and voltage measurement AC Current and Voltage measurement Resistance measurement Frequency measurement Capacitance measurement Temperature measurement Continuity mode Diode measurement mode Auto range mode Set of filters Colour: Red, Orange, Yellow, Green, Blue</p>

		Instruction manual should be provided
6	Meldes string apparatus	The kit Should include the following items: a. Steel fork b. Cast iron base c. Electromagnet d. Weight box e. Voltage source 0-12V f. Pulley with clamp g. Reel of thread h. Meter scale i. Scale pan j. Instruction manual
7	Newton's ring Apparatus	The kit Should consists of : : Newton's Rings Apparatus with Micrometer : 0.01mm least count Eyepiece: Ramsden 10X Obejective: 3X Plano Convex Lens made of glass (Dia: 61.5 mm, Focal Length: 200mm) Plane glass plate pair (50×35×2mm) Plain glass (108×70×1.2mm) Spherometer Type: 3legs Vertical scale: 6mm×6mm(W×T) Range : 10-0-10mm Least count : 0.01mm Spherometer should be able to measure radius of curvature of the lens provided Instruction manual should be provided
8	Newton's law of cooling apparastus	The apparatus should be consisted of Two units each with double walled joint less brass vessels polished with non conduction cover through which a copper calorimeter is suspended. Another covering should protect the top of the calorimeter from dust and heat losses The annular spaces between the double walled vessels are connected by T- tubes. Instruction manual
9	Newtons ring arrangements	The kit Should consists of : : Newton's Rings Apparatus with Micrometer : 0.01mm least count Eyepiece: Ramsden 10X Obejective: 3X Plano Convex Lens made of glass (Dia: 61.5 mm, Focal Length: 200mm) Plane glass plate pair (50×35×2mm) Plain glass (108×70×1.2mm) Spherometer Type: 3legs Vertical scale: 6mm×6mm(W×T) Range : 10-0-10mm Least count : 0.01mm Spherometer should be able to measure radius of curvature of the lens provided Instruction manual should be provided
10	NPN junction transistor	The kit should contain A board with two 0-10V D.C. at 50mA, continuously variable Power Supplies for Base

		Emitter & Collector Emitter junctions. Two Digital Voltmeter DC 3½ Digit Having Dual range of 2V / 20V. Two Digital Current meter DC 3½ Digit Having Dual range of 200mA / 20mA Two silicon (NPN & PNP) transistors and two Germanium (NPN & PNP) transistors. Instruction manual
11	optic fibre cable with photo detector	The kit should contain 1 meter and 5 meter PMMA patchcord In-line SMA adaptor Mandrel Numerical aperture measurement Zig Fiber Optics trainer Speaker Mic Circular screen Instruction manual
12	Plane transmission Grating with light source.	Dispersive and resolving power kit The kit should contain Spectrometer Objective: Achromatic lens, f=178mm Eyepiece: Ramsden eyepiece, 15× Reticle: 90o cross etched on glass Sodium light source with lamp house and voltage source Input Voltage :220V, 50Hz Prism Diffraction grating Lines/inch :15000 Micrometer slit Pitch :0.5mm Least Count :0.005 mm Magnifier with LED Light :LED (cell operated) Proper Allen Key set should be provided with Instruction manual should be provided
13	polariser ,analyder ,photodetector.	Polarization and Malu's law verification kit The kit should consist of : He-Ne Laser Wavelength :632.8nm Working current :4mA-6mA Working time :>8hrs Output power :>2mW Working voltage :AC220 V±22V Input Power :<2W Photo Detector with rod Detector : preferably silicon photocell with safety socket Aperture :1mm Optical Bench Material :Aluminum alloy Scale :0-100 cm Least count :1mm Optical Bench- 1 meter Polarizer/Analyzer (2 Nos) with blackened frame Angle :Adjustable (0o-90o) Least count :1o Should be provided with proper mounting arrangements, 03 Nos of fixed saddles and 01 No of transverse saddle(motion in X-Y axis) Digital multimeter Resistance :200?,2000?,20k,200k and 2000k? D.C Voltage :200 and 2000mV :20,200 and

		600V A.C Voltage :200 and 600V D.C current :200 and 2000 μ A :20 and 200 mA :10A Testing :Diode and Transistor Battery :9V Connecting lead Length :100cm Type :Banana plug
14	Ressonance tube	The kit should consists of : Tuning fork set Stand base Stand rod Al vessel Acrylic tube Rubber Pipe Scale Instruction manual
15	Searle's apparatus	The apparatus should contain Searle's apparatus, brass body with integrated weight hanger upto 5 kg. Incorporated with spirit level 2 nos of integrated long steel wire of same length and diameter Micrometer head with least count 0.01 mm A set of 10 loads with holder (0.5 kg each) and dead load with weight same as the weight hanger Instruction manual
16	Solar cell	The kit should consist of Circuit board Decade resistance box Digital Multimeter- 2 Nos Flexible Lead Set (50cm) Lamp source Solar Module Switch module Power supply Cylindrical Base Set of intensity filters Instruction manual
17	Thermocouple, tempreature bath with heating arrangement.	The Kit should consists of a. Unit of electronic standard cell 1.018V, Battery eliminator 2V/100mA, Rheostat 0-5 K ohm b. Hot Plate c. Resistance box, dial type d. Flexible plug leads e. Thermocouple copper-iron f. Arrangement for holding thermocouple g. Instruction manual
18	Torsional pendulum	Moment of Inertia apparatus The kit should contain Torsional pendulum with cradle consisting of an aluminum disc of approximately 6" dia with a groove. The circular aluminum disc supports five semicircular masses which just fit into a groove, concentric with the circumference. It should be suspended by a steel wire pivoted at the centre of a long frame work, provided with circular base which is also fitted with leveling screws. Four different shapes of mass (Sphere, cuboid,

		600V A.C Voltage :200 and 600V D.C current :200 and 2000 μ A :20 and 200 mA :10A Testing :Diode and Transistor Battery :9V Connecting lead Length :100cm Type :Banana plug
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15	Searle's apparatus	The apparatus should contain Searle's apparatus, brass body with integrated weight hanger upto 5 kg. Incorporated with spirit level 2 nos of integrated long steel wire of same length and diameter Micrometer head with least count 0.01 mm A set of 10 loads with holder (0.5 kg each) and dead load with weight same as the weight hanger Instruction manual
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		cylinder, rectangular cuboid) should be provided. Instruction manual
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FORMAT FOR QUOTATION SUBMISSION
(In letterhead of the supplier with seal)

To: _____

Date: _____

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: _____