



Parala Maharaj Engineering College Berhampur, TEQIP Cell, Room 501, Parala  
Maharaja Engineering College, Sitallapalli, Berhampur, Odisha. Pin-761003

## INVITATION LETTER

Package Code: TEQIP-III/OD/pmec/61

Current Date: 07-Mar-2019

Package Name: PMEC/TEQIP/PHY LAB 1

Method: Shopping Goods

To,

**Sub: INVITATION LETTER FOR PMEC/TEQIP/PHY LAB 1**

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	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Newton's ring apparatus	1	PMEC Berhampur	
2	Travelling microscope	1	PMEC Berhampur	
3	To determine wavelength of Laser by diffraction grating	1	PMEC Berhampur	
4	Sodium lamps	2	PMEC Berhampur	
5	To determine the wavelength of sodium light using Fresnel's biprism	1	PMEC Berhampur	
6	Hall effect set up	1	PMEC Berhampur	
7	To determine energy gap by four probe method	1	PMEC Berhampur	

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, initialling, 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 **90**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.
- 6.3 OEM's are preferred.
- 6.4 Companies with past satisfactory experience from institutes of national repute would be preferred.
- 6.5 Cost of bids should include all installation cost i.e. Civil, Electrical etc.
- 6.6 Service point of the products nearer to the college would be preferred.

**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, Installation and Satisfactory Acceptance - 100% of total cost**

10. Liquidated Damages will be applied as per the below:  
Liquidated Damages Per Day Min % : 0.10  
Liquidated Damages Max % : 10.
11. All supplied items are under warranty of months from the date of successful acceptance of items and AMC/Others is **60**.
12. You are requested to provide your offer latest by **16:30** hours on **12-Apr-2019**.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **yes**
15. Testing/Installation Clause (if any) **yes**
16. Performance Security shall be applicable: %
17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below, **Parala Maharaj Engineering College Berhampur, TEQIP Cell, Room 501, Parala Maharaja Engineering College, Sitallapalli, Berhampur, Odisha. Pin-761003**
19. We look forward to receiving your quotation and thank you for your interest in this project.
20. The purchaser may visit the suppliers place for inspection of product before its delivery. The cost of such visit will be borne by the supplier.

(Authorized Signatory)

Name & Designation

## Annexure I

Sr. No	Item Name	Specifications
1	Newton's ring apparatus	BRIDGE TYPE MICROSCOPE Eyepiece : Ramsden 10x , Objective : 3x Scale length : 110 mm , Least count : 0.01 mm NEWTON'S RINGS REFLECTOR Housing : PVC, Finish : Matt black painted Glass plate : Mounted at 45° SPHEROMETER (DISC BRASS) Types : 3 legs, Vertical scale : 6mmx6mm (WxT) Micrometer : Dia. 40mm, Brass, Lower disc : Dia. 60mm Range : 10-0-10 mm , Least count SODIUM LIGHT SOURCE Sodium Light Lamp 35W, Transformer with metal Box
2	Travelling microscope	Travelling microscope
3	To determine wavelength of Laser by diffraction grating	OPTICAL BENCH Material : Aluminium alloy, Type : Hexagonal section, Scale : 0-100cm , Least count : 1mm DIODE LASER Peak wavelength : 635nm, Operating voltage : 5V DC , Operating current : 250mA Optical power : 0.4-0.8mW, Laser product : Class II, Operating temp. : 0 - 40°C Storage temp. : -10 to 50°C PIN HOLE PHOTO DETECTOR Detector : Silicon photocell, Terminals : 4mm safety socket, Aperture : 1 mm, Rod : 10 mm diameter CROSS WIRE Frame size : 50mm x 50mm, Clear aperture : 15 mm dia. (approx.), Wire thickness : 0.5mm (approx.) TRANSVERSE SADDLE-Material : Spring loaded , Aluminium, Locking :, Motion : X-Y DIFFRACTION SLIDE Frame Size : 50mm x 50mm Slit : Width=0.06mm & Separation=0.20mm (Single, Double) Diffraction grating : 80 lines / mm Diffraction grating : 300 lines / mm Single slit : Tapered Double slit : Tapered Metal gauze : 300 mesh All individually mounted in slide frames and protected by two glass plates.
4	Sodium lamps	35Watt Philips Sodium lamps
5	To determine the wavelength of sodium light using Fresnel's biprism	<p><b>OPTICAL BENCH</b></p> <ul style="list-style-type: none"> <li>▶ Material : Aluminium alloy, Type : Hexagonal section</li> <li>▶ Scale: 0-150cm, Least count: 1mm, Supplied with 3 fixed saddles.</li> </ul> <p><b>SODIUM LIGHT SOURCE</b> Sodium Light Lamp 35W, Transformer with metal Box Lamp house : 300x85mm(LxΦ), Aperture dia : 25mm</p> <p><b>MICROMETER EYEPICE</b></p> <ul style="list-style-type: none"> <li>▶ Eyepiece :10X , Pitch :0.5mmLeast : 0.01mm</li> </ul> <p><b>FRESNEL'S BIPRISIM</b></p> <ul style="list-style-type: none"> <li>▶ Material : Glass, Size : 40x30mm(LxW)</li> <li>▶ Prism Angle :178° Approx</li> </ul> <p><b>FRESNEL'S MIRROR</b></p> <ul style="list-style-type: none"> <li>▶ Size:100 x 50 mm</li> <li>▶ Mirror:50 x 45 mm(L x W), Flatness:N6</li> <li>▶ Coating : Front coated</li> </ul> <p><b>CYLINDRICAL BASE-Material: Ferrous</b></p> <p><b>MICROSCOPE OBJECTIVE IN HOLDER: 10 X</b></p>

6	Hall effect set up	<p>Compact Design Hall Effect apparatus With P Type PCB Crystal: Coils : 400 turns.,Coil Current : 4.5Amp (Max.), Connection : 4mm safety socket. U Core : 150x130mm(LxH), 40x40mm cross section.I Core : Length=150mm, 40x40mm cross section. Core material : Ferromagnetic., Base dimension : 360x180x33mm Flexible Plug leads 50cm, Black Flexible Plug leads 100cm, Black Flexible Plug leads 50cm, Red Flexible Plug leads 100cm, Red , Flexible Plug leads 50cm, Yellow Power Supply - Dual Digital 0-20V ,5Amp Dual DC continuously variable &amp; stabilized, Voltage display : 3½ digit LED Ripple : Less than 25mV, Overload : Current limiting protection Current : 5 A continuously variable, 10% to full rating, Current display : 3½ digit LED Constant current source-Dual Display 0-20 mA DC ,Resolution : 10 micro ampere, Power : 220V ± 10%, 50 Hz AC, 3½ digit LED Digital Gauss meter –Range : 200 Gauss &amp; 2 k Gauss ,Resolution : 0.1Gauss at 0 - 200 Gauss , 3½ digit LED</p>
7	To determine energy gap by four probe method	<p>Four Probe Arrangement: Four probe : Spring type , Probe Spacing : 25mm , Crystal : Ge Wafer, P type Crystal Size : 12 x14 x 0.5mm (LxWxThickness) , Resistivity : 1~ 10 ohm-cm Orientation : &lt;100&gt;, Connection : 4mm safety socket Oven: Heating Element : 35 ohm, 75 Watt, Oven Supply : 45V/60V AC , 5 Pin, DIN type Voltmeter Display : 3½ digit, 7segment LED Voltage Range : X1 (0-200.0mV DC) &amp; X10 (0-2.00 V DC), 4mm socket Current Display : 3½ digit, 7segment LED Current Range : 0-20mA DC, 4mm socket Oven Supply : 45V AC (Switch position LOW) 60V AC (Switch position HIGH)</p>

**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)
<b>Total Cost</b>							

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. \_\_\_\_\_