

## INVITATION FOR QUOTATION

TEQIP-III/2018/pmec/Shopping/13

07-Sep-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	Dean and stark apparatus	10	30	PMEC Berhampur	
2	Hot air oven	2	30	PMEC Berhampur	
3	Hot Plate	5	30	PMEC Berhampur	
4	Muffle furnace	2	30	PMEC BERhampur	
5	Pensky martin's apparatus	10	30	PMEC BERhampur	

6	Pour point analyzer	1	30	PMEC Berhampur	
7	Redwood viscometer	10	30	PMEC Berhampur	
8	Rheometer	1	30	PMEC Berhampur	
9	TGA Analyzer	1	30	PMEC Berhampur	
10	UV-Vis spectrophotometer	1	30	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, 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.

3.7 The Tender Cost of Rs. 3000/- for the package is to be submitted along with the completed bid in the form of Demand Draft in favor of TEQIP Cell, PMEC Berhampur. Payable at Berhampur.

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 - 90% of total cost**  
**Satisfactory Acceptance - 10% of total cost**
10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **12:00** hours on **24-Sep-2018** .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **As per Advertisement**

14. Testing/Installation Clause (if any) **As per Advertisement**

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,

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

17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

#### Annexure I

Sr. No	Item Name	Specifications
1	Dean and stark apparatus	3.3 borosilicate glass 2-10 ml Receiver with 0.1 intervals
2	Hot air oven	Heating Mode- Transmission Operation Pressure- Vacuum Dryer Max. Temp.- 50-250°C Resolution- $\pm 2^\circ\text{C}$ Size- 605 x 455 x 910 mm (252 L)
3	Hot plate with stirrer	Display: Digital Speed (RPM): 100-1600 Max. Volume (ml): 5000 Max Temp. ( Plate Surface): 300 - 380°C
4	Muffle furnace	Max. Temperature - 900 -1800°C Working Temperature - 800 - 1700°C Temperature Accuracy +/- 1°C Temperature Controller - PID controller

		<p>Size- 8 x 8 x 12 (13 L)</p> <p>Power supply- 220/440v</p>
5	Pensky martin's apparatus	<p>Benchtop steel case, Digital display for sample temperature, 0.1°C accuracy, Electric stirrer: 100 - 250 rpm</p> <p>IP 15C -7°C TO 100° (LOW)</p> <p>IP 16C 90°C TO 370°C (HIGH)</p> <p>220V</p>
6	Pour point analyzer	<p>Voltage 220±10% 50hz V AC</p> <p>100–240 VAC, 150 W, 50/60 Hz</p> <p>Jacket: -105 to +55 °C</p> <p>Sample: -95 to +51°C</p> <p>Jacket: ± 0.5 °C accuracy</p> <p>Sample: ± 0.5 °C accuracy</p>
7	Redwood viscometer	<p>Range: 0°C to 45°C</p> <p>Power: 220-240v</p> <p>Frequency: 50Hz</p> <p>Thermometer IP 8C,Range: 0°C to 45°C</p> <p>Thermometer IP 9C,Range: 40°C to 85°C</p> <p>Thermometer IP 10C,Range: 76°C to 122°C</p> <p>Frequency- 50Hz</p> <p>Power- 220V</p> <p>Driven Type- Electric</p>

8	Rheometer	<p>Vibration Angle: <math>\pm 1</math> °C, <math>\pm 3</math> °C, <math>\pm 5</math> °C</p> <p>Maximum Temperature: -20 - 300 °C</p> <p>Power: 50Hz~220V</p>
9	TGA Analyzer	<ul style="list-style-type: none"> <li>☐ Temperature Range: 15 °C to 1500 °C or higher</li> <li>☐ TGA should have ultra-microbalance with minimum 0.1 µg sensitivity with top load design.</li> <li>☐ Balance Design: Single Beam vertical design with exchangeable sensor.</li> <li>☐ Furnace cooling down: 1500 °C to 30 °C within 20 minutes with built-in forced air cooling.</li> <li>☐ Built-in Mass Flow controller for two difference gases.</li> <li>☐ Heating rate ambient to 1000 °C: 0.1 to 300 C/min or better</li> <li>☐ TGA and DTA should operate up to 1500 °C.</li> <li>☐ The gas flows to be controlled through built-in Mass Flow Controller and Software. The flows to be set through software as well as gas switching at the desired temperature.</li> <li>☐ Sample capacity 2000 mg or higher</li> <li>☐ The system should have built-in DTA mode with simultaneous scanning facility in single run.</li> <li>☐ DTA signal should have provision to convert into DSC mode/signal for quantitative studies.</li> <li>☐ Calorimetric precision should be + 2% or better</li> <li>☐ All the three curves/parameters like TGA/DTA/DTG or DSC to be displayed on single screen.</li> <li>☐ Software should be provided to determine the kinetic analysis of the thermal degradation</li> </ul>

		<ul style="list-style-type: none"> <li>☐ Software should have the facility for real time update of spectral information.</li> <li>☐ Software should be provided to determine the area under the peak</li> <li>☐ 10 numbers of crucibles should be provided which will be operated at 1500 oC temperature.</li> <li>☐ Filled Nitrogen cylinder and air cylinder along with all the necessary attachments such as regulators should be provided</li> <li>☐ Flow controller such as rotameters should be provided</li> <li>☐ Required connection pipes and fittings should be provided</li> <li>☐ Ceramic pans (5 nos.) must be quoted with the instrument.</li> <li>☐ Demonstration of the equipment has to be given during installation</li> <li>☐ Periodic annual maintenance should be provided</li> <li>☐ The following items must be quoted with the instrument: <ul style="list-style-type: none"> <li>1. Suitable Chiller for cooling.</li> <li>2. 3 KVA online UPS</li> <li>3. Computer with i3 processor, Printer</li> </ul> </li> </ul>
10	UV-Vis spectrophotometer	<ul style="list-style-type: none"> <li>1. Liquid samples will be analyzed</li> <li>2. Lamp Source: Tungsten / Deuterium Lamp</li> <li>3. Monochromator: Blazed holographic grating with 1200 lines per mm, Czerny- Turner with 0.2m focal length or better technology</li> <li>4. Wavelength Range: 100-1000 nm or better</li> <li>5. Spectral Bandwidth: 0.5, 1, 2, 5, 20 nm variable or better</li> </ul>

		<ul style="list-style-type: none"><li>6. Wavelength Accuracy: <math>\pm 0.1</math> nm or better</li><li>7. Photometric Range: <math>\pm 4A</math> or better</li><li>8. Wavelength Reproducibility: <math>\pm 0.1</math> nm or better</li><li>9. Detector: Silicon Photodiode, Diode array detector (DAD, PDA: Photodiode Array Detector (any one)</li><li>10. Photometric Reproducibility: <math>\pm 0.001</math> Abs or better</li><li>11. Photometric accuracy: <math>\pm 0.004</math> A or better</li><li>12. Stray light: <math>&lt; 0.02\%</math> (220 nm NaI) or better</li><li>13. Photometric Noise: <math>&lt; 0.00007</math> Abs or better</li><li>14. Photometric drift: <math>&lt; 0.0003</math> Abs/h or better</li><li>15. Baseline flatness: <math>\pm 0.0005</math> A</li><li>16. One pair of quartz cell of 3.5 mL volume &amp; 10mm path-length must be quoted</li><li>17. Computer: i7 processor with UPS (2 KVA online UPS) with Printer.</li><li>18. Two sets of sample holder for analysis of liquid samples</li><li>19. Software should have the facility for real time update of spectral information</li><li>20. Demonstration of the equipment has to be given during installation</li><li>21. Periodic annual maintenance should be provided</li></ul>
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**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: \_\_\_\_\_