भारतीय प्रौद्योगिकी संस्थान पालक्काड
Indian Institute of Technology Palakkad
अहलिआ एकीकृत कैम्पस, कोज़्हिपारा
Ahalia Integrated Campus, Kozhipara
पालक्काड- 678557
Palakkad – 678 557

दूरभाषसंख्या/ Phone no:
04923 – 226300/590/586

ईमेल/ Email :
purchase@iitpkd.ac.in

Ref No: IITPKD/MECH/MM LAB / 035 / 2017 **Date: 26.09.2017**

Due Date of the tender: 11.10.2017 @ 3.30 PM

TENDER FOR INVITING QUOTATIONS

Dear Sirs,

On Behalf of Indian Institute of Technology Palakkad quotations are invited for "**Material and Manufacturing Lab Equipments**" confirming to the specification in the Annexure.

1. **Preparation of Bids**: - The tenders should be submitted **under two-bid system** (i.e.) Technical bid and Financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. No prices should be included in technical bid. Financial Bid should indicate item – wise prices for the items mentioned in the technical bid. The technical and the Financial bids should be put in separate cover and sealed. Both sealed covers should be put into a bigger cover

2. The Quotations duly sealed and superscribed on the envelope **with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above. Fax and Email quotation are not acceptable.**

3. The price should be quoted per unit and packing and delivery charges should be indicated separately. The offer/bids should be exclusive of Taxes and Duties, which will be paid by the purchaser as applicable. However the percentage and of taxes and duties as on date should be clearly indicated.

4. The Quotations should be valid for **sixty days** from the due date and the period of delivery required should also be clearly indicated.

5. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.

6. **Local Firms**: Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.

7. Outside Palakkad: Quotations should be for **F.O.R. at IIT Palakkad**. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.

8. Goods shall not be supplied without an official supply order.

9. **Custom Duty:** Custom Duty which will be paid at a concessional rate against duty exemption certificate.

10. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later. No advance payment will be made. The Tenderer have to furnish the bank details along with tender like Account No, Account Name, IFSC Code, Bank address etc.

11. **Submission of Bids**: Quotation should be sent to the following address "**The Registrar, Indian Institute of Technology Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad -678 557, Kerala", Phone No: 04923 226 586/590, Email: purchase@iitpkd.ac.in.**

12. Delivery Period: The quotation should indicate clearly when delivery and installation to be made.

13. **Delay in Supply or Liquidate damages**: If the supplier fails to deliver the stores within the time specified in the purchase order, the purchaser will recover from the supplier as liquidated damages a sum of one- half of one percent (0.5%) of the P.O value of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed five percent (5%) of the P.O price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.

14. **Late offer**: The quotation received after due date will not be considered. Please ensure that your offer is sent well in advance to reach the Institute by the due date.

15. **Warranty**: Warranty Clause should be indicated clearly.

16. **Acceptance and Rejection**: IIT Palakkad has the right to accept the whole or any parts of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully,

Encl: Specifications

Registrar, IIT Palakkad

TECHNICAL SPECIFICATIONS

Sl. No	Items	Specification	Technical data	Nos
1	Hardness testing machine	Digital brinell hardness tester with microscope range up to 650 BHN	Testing Load: 62.5kgf to 3000kgf	1
2	Microscope	Vertical microscope with 500X magnification	30°inclined Gemel Trinocular head, interpupillary distance: 54mm~75mm, left diopter ±5 adjustable	1
3	Toughness (Charphy)	Variable hammer mass Scale bar Brake mechanism to redue the residual energy Safe guard for protecting	Upto 25Nm Impact velocity 3.8m/s Head betwenn 700 to 750mm Weight max 60kgs	1
4	Dimensional metrology I: training kit 1	practice kit for dimensional metrology in the metalworking trades [2] measurement exercises on a stainless steel spacer plate [3] instructional kit complete with test pieces and measuring aids [4] 10 test pieces, each of different dimensions [5] plastic storage system to house all parts [6] detailed instructional material	Test pieces: 13 lengths measurable Vernier caliper gauge: 200mm Steel ruler: 300mm Set square: 90°, LxW: 100x70mm LxWxH: 500x350x110mm (storage system) Weight: approx. 5kg	1
5	Dimensional metrology I: training kit 2	[1] training kit for dimensional metrology in the metalworking trades [2] measurement exercises on a stainless steel bearing plate [3] instructional kit complete with test	Test pieces: 9 lengths, 4 depths, 4 diameters measurable Vernier caliper gauge: 0…200mm Pocket caliper gauge: 0…150mm Depth caliper gauge:	1

		pieces and measuring aids [4] 10 test pieces, each of different dimensions [5] plastic storage system to house all parts [6] detailed instructional material	0…150mm External micrometer: 0…25mm, resolution: 0,01mm Depth micrometer: 0…25mm LxWxH: 500x350x110mm (storage system) Weight: approx. 7kg	
6	Dimensional metrology I: training kit 3	[1] practice kit for dimensional metrology in the metalworking trades [2] measurement exercises on a stainless steel bush [3] instructional kit complete with test pieces and measuring aids [4] 10 test pieces, each of different dimensions [5] plastic storage system to house all parts [6] detailed instructional material	Test pieces: 6 lengths, 9 diameters measurable Vernier caliper gauge: 0…200mm Pocket caliper gauge: 0…150mm Depth caliper gauge: 0…150mm Three-point internal micrometer: d12…d16mm Internal micrometer: 25…50mm Inside quick caliper: 10…30mm Inside spring caliper: 125mm long LxWxH: 500x350x110mm (storage system) Weight: approx. 7kg	1
7	Dimensional Metrology I: Training Kit 4	[1] practice kit for dimensional metrology in the metalworking trades [2] measurement exercises on a stainless steel angle piece [3] instructional kit complete with test pieces and measuring aids [4] 10 test pieces, each of different dimensions	Test pieces: 6 angles measurable Universal goniometer • track length: 150mm • adjustable to any angle LxWxH: 500x350x110mm (storage system) Weight: approx. 5kg	1

		[5] plastic storage system to house all parts [6] detailed instructional material		
8	Dimensional Metrology I: Training Kit 5	[1] practice kit for dimensional metrology in the metalworking trades [2] measurement exercises on a stainless steel shaft [3] instructional kit complete with test pieces and measuring aids [4] 10 test pieces, each of different dimensions [5] plastic storage system to house all	Test pieces • 6 lengths • 7 diameters and radii measurable Vernier caliper gauge: 0…200mm Depth caliper gauge: 0…150mm External micrometer • 0…25mm • 25…50mm Radius gauges: 1…7mm concave and convex Block gauges • 10mm • 50mm • 90mm • accuracy to DIN 861/2 LxWxH: 500x350x110mm (storage system) Weight: approx. 7kg	1
9	Dimensional metrology I: training kit 6	[1] practice kit for dimensional metrology in the metalworking trades [2] measurement exercises on a stainless steel shaft [3] instructional kit complete with test pieces and measuring aids [4] 10 test pieces, each of different dimensions [5] plastic storage system to house all parts [6] detailed instructional	Test pieces: 9 lengths and angles, 7 diameters and radii measurable Vernier caliper gauge: 0…200mm Depth caliper gauge: 0…150mm Radius gauges: 1…7mm concave and convex Universal goniometer • track length: 150mm • adjustable to any angle LxWxH: 500x350x110mm (storage system)	1

		material	Weight: approx. 6kg	
10	Dimensional metrology II: training kit 1	[1] practice kit for dimensional metrology in the metalworking trades [2] measurement exercises on a stainless steel shaft [3] instructional kit complete with test pieces and measuring aids [4] 6 test pieces, each of different dimensions [5] box of 32 block gauges, DIN EN ISO 3650 [6] plastic storage system to house all parts [7] detailed instructional material	Test pieces: 4 dimensions measurable Pocket caliper gauge: 0…150mm Depth micrometer: 0…75mm Dial gauge • 0…1mm, graduations: 0,001mm Key-way vernier caliper: D=5…80mm V-Block: indent 90° LxWxH: 500x350x110mm (storage system) Weight: approx. 12kg	1
11	Dimensional metrology II: training kit 2	[1] practice kit for dimensional metrology in the metalworking trades [2] measurement exercises on an external and internal taper [3] instructional kit complete with test pieces and measuring aids [4] 8 stainless steel test pieces, each of different dimensions [5] plastic storage system to house all parts [6] detailed instructional material	Test pieces: 3 dimensions measurable Taper ring gauge MK 3 Taper plug gauge MK 3 Depth caliper gauge: 0…150mm LxWxH: 500x350x110mm (storage system) Weight: approx. 4kg	1