

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**  
**Department of Physics**

**Enquiry no.: PHY/RV/EOP/DRD/2014/4**

**Enquiry date: 02/02/2015**

**Closing date: 09/03/2015 (extended)**

Sealed quotations should reach the undersigned latest by **12.00 noon on 09<sup>th</sup> March, 2015** for the following:

<b>Description</b>	<b>Quantity</b>
Polishing machine for optical-quality components (and accessories)	one

The above-mentioned equipment should conform to the following specifications and a sheet showing the extent of compliance should be attached:

1. Automated, high-quality polishing machine for polishing optical devices such as end-polishing of planar / rib waveguides, polishing of fiber connectors and tapering of optical fibers.
2. Standard data of possible limits that can be achieved with the system (for both hard and soft polishing) should be supplied along with the quotation.
3. If both analog and digital display systems are available, please quote for both as alternatives.
4. Computer interface (if available): USB 2.0      Stand-alone units with in-built control systems will be preferred.
5. Available speed ranges to be specified in the quotation.
6. Power cords for 220 to 250 V with 50 Hz line frequency suitable for use in India.
7. Accessories: **(a)** work holder for thin glass plates (typical length of 2.5 cm) for edge polishing of waveguides, **(b)** work holder for FC/PC and SMA fiber connectors for connector polishing, **(c)** bare fiber holder (2 fibers at a time) for end-polish at 0° and small angles such as 8°, **(d)** work holder for tapering fiber ends up to 20° of cone half-angle, **(e)** work holder for end-polishing soft materials such as polymeric (PMMA or PDMS) waveguides of 5 to 10 micron thickness coated on glass, **(f)** work holder for Si or SOI wafer dicing, **(g)** work holder for Si or SOI wafer polishing, **(h)** all appropriate lapping sheets (if required), **(i)** any essential heat sink / anti-static pad for the equipment, and **(j)** any essential soaps / cleaning liquids (not more than 500 ml).
8. Instruction manual with clear instructions and trouble-shooting tips.
9. Installation on-site upon purchase, and demonstration of all parameters.

Any additional accessory useful for operation may be included and clearly specified as essential or optional.

The supplier should be willing to supply the complete test report of the unit while shipping the item. Refurbished units are not acceptable.

**Terms and conditions:**

Quotations should have a validity of a minimum of 60 days.

The equipment should be provided with a warranty of 1-3 years. Extended warranty pricing should be indicated.

Technical specification and price quote should be put in two different sealed envelopes (enquiry number and technical/price type written on each) inside one sealed envelope (enquiry number mentioned on top) and sent by courier or post.

The envelope containing the technical specification will be opened first and analyzed. Only those that meet our criteria will be short-listed for price comparison. A meeting for presenting the technical specifications may be arranged at IIT Kanpur. This is at the discretion of the purchase committee.

Quotations that do not provide a compliance sheet will be rejected.

The delivery period should be specifically stated.

The decision of the purchase committee is final.

Permissible educational discount should be provided since the equipment will be used for research work of students.

For suppliers from outside India, the rate offered should be FOB (specify city) or FCA terms.

IIT Kanpur has its own freight forwarder for shipping from outside India.

IIT Kanpur is exempted from payment of Excise Duty under notification no.10/97

IIT Kanpur is entitled to avail concession rate of sales tax as admissible under Sub-sec 5 of Sec 8 C.S.T Act 1956 applicable to Educational/Research institution in inter-state purchase for suppliers from within India.

**Prof. R.Vijaya**  
**Dept of Physics**  
**IIT Kanpur**  
**Kanpur 208016, India**

Tel: +91-512-2597552  
e-mail: rvijaya@iitk.ac.in