



# Indian Institute of Technology Kanpur

## Advanced Center for Materials Science

**Enq. No.: MSE/ KK/ 2017-18/ DWS**

**Enquiry Dated: December 12<sup>th</sup>, 2017**

**New Closing Date: January 10<sup>th</sup>, 2018**

***Please note that the last date for bid submission is extended till 10 Jan 2018***

Quotations are sought for a Diamond Wire Saw complying with all of the specifications mentioned in **Appendix A**. The Diamond Wire Saw should be capable of cutting the metallic as well as other samples with a precisely controlled cutting position. The closing date for the above item is **10<sup>th</sup> Jan 2018**.

The prospective suppliers are required to send both “Detailed Technical Specifications” and “Financial Bid” in a sealed envelope. The Technical Specifications should contain detailed technical specification of the product being offered. The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges. The sealed envelope should be clearly marked as “Quotation for Enquiry No. MSE/KK/2017-18/DWS”.

Terms and Conditions:

1. Maximum education discount, if any should be offered
2. Validity of quotation should be at least for 60 days
3. Prices should be on CIF and FOB separately (if imported)
4. Prices should include the installation and training cost
5. Warranty should be for at least one year after installation
6. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc. In addition, the supplier should have supplied a similar product to at least one central government institute like IIT's, IISc or NIT's and a certificate from user in this regard is required.

Kindly send the bids in sealed envelopes latest by 10<sup>th</sup> Jan 2018 to:

**Dr. Kaustubh Kulkarni**  
**Department of Materials Science and Engineering**  
**Office: WL 302A, Western lab**  
**IIT Kanpur, U.P. 208016, India.**

## Appendix A

### Technical Specifications for Diamond Wire Saw

Sr. No.	Parameter	Required Specification <sup>1,2</sup>
1.	Description	<p>Diamond Wire Saw with cutting wire impregnated with diamond to cut samples form wide variety of materials. The saw should be able to cut a sample by diamond impregnated wire with an adjustable speed up to 3 m/s. by rotating</p> <p>The sectioning should be not greater than 0.3mm thick and the cutting position should be controlled with the accuracy of +/- 0.01mm or better.</p>
2.	Model Name	Clearly mention make, model and model number of the equipment being offered. Include the pictures and videos of the quoted model.
3.	Cutting Wire	<ul style="list-style-type: none"> <li>• Should be impregnated with diamond</li> <li>• Desirable wire diameter is 0.25 to 0.3 mm. Also specify and quote for the wires of different diameters available up to 0.5 mm diameter.</li> <li>• The wire should be long enough with the desired length of at least 10 m</li> </ul>
4.	Sample Stage	<ul style="list-style-type: none"> <li>• Should accommodate the samples up to at least 30 mm dia x 30 mm thickness</li> <li>• Stage movement should be controlled with an accuracy of +/- 10 <math>\mu</math> m in X and Y direction</li> <li>• The range of X and Y movement should be at least 50mm</li> <li>• The cutting should be automatically controlled</li> <li>• The stage should be capable of 360° rotation and 30° tilt.</li> </ul>
5.	Coolant	<ul style="list-style-type: none"> <li>• Provision is required for continuous flow and automatic recirculation of coolant during cutting of sample</li> </ul>
6.	Accessories	<ul style="list-style-type: none"> <li>• 10 additional sets of each wire of selected diameters should be optionally quoted</li> <li>• Specify and quote for standard accessories required for smooth and continuous operation of the saw</li> <li>• Wax or superglue required for mounting sample on the cutting stage should be supplied with the machine</li> <li>• Optionally specify and quote separately for various jigs for mounting samples of different geometries</li> <li>• 50 liters of coolant should be supplied with the machine</li> </ul>
7.	Documentation	<ul style="list-style-type: none"> <li>• Two sets of operating manuals for the equipment and control system should be provided in hard copies</li> <li>• A soft copy of the above manuals should also be provided in a CD/DVD</li> </ul>
8.	Safety Norms	<ul style="list-style-type: none"> <li>• The instrument should be compliant with international norms for safety and environment</li> </ul>
9.	Spares	<ul style="list-style-type: none"> <li>• List of standard spares to be provided for each year starting from 1st to 5th year along with cost and discounted rates</li> </ul>
10.	Annual Maintenance Cost	Separately Include the cost of annual maintenance for each year for five years after the warranty period.
<p><sup>1</sup> Above specifications are desirable and the actual specifications for your systems should be clearly mentioned.</p> <p><sup>2</sup> Additional optional accessories should be indicated and quoted separately</p>		