



# Indian Institute of Technology Kanpur

## Advanced Center for Materials Science

**Enq. No.: ACMS/ AU/ 2012-13/ E-12**

**Enquiry Dated: March 07, 2013**

**Closing Date: March 18<sup>th</sup>, 2013**

ACMS requires the quotation for **Electrical Discharge Machining (EDM)**. The specifications for the equipment are in the addendum. The closing date for the above item is **March 18<sup>th</sup>, 2013**.

The prospective suppliers are required to send quotation in two parts in sealed envelopes, as “Technical Bid” and “Financial Bid”. The Technical Bid should contain detailed technical specification of the product being offered and should not mention any prices. 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 two separate and sealed envelopes should be clearly marked appropriately as “Technical Bid” and “Financial Bid”.

### 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 three years after installation
6. Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection)
7. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc.
8. An undertaking that the vendor will supply all the spares and services for the equipment for at least 5 years from the date of commissioning
9. Delivery must be within 6 months

Kindly send the Technical and Financial bids in sealed envelopes latest by 18<sup>th</sup> March 2013 before 5pm, to:

**Dr. Anish Upadhyaya**  
**Head, Advanced Center for Materials Sciences**  
**IIT Kanpur, U.P. 208016, India.**  
**e-mail: [anishu@iitk.ac.in](mailto:anishu@iitk.ac.in)**

## Technical Specifications for Electric Discharge Machining

Parameter	Specifications *
General specifications	<ul style="list-style-type: none"> <li>• Computer Numerical Control (CNC)</li> <li>• High position accuracy</li> <li>• 5 axis control (x, y, z, U, V)</li> <li>• Sufficient memory to store different schemes of machining</li> <li>• High wire diameter compensation</li> <li>• Fully closed servo control system</li> <li>• 20KVA or better</li> <li>• High positioning accuracy</li> <li>• Dielectric tank with chiller</li> <li>• Different wires to cut different materials (hard to soft metals and alloys) (optional)</li> <li>• Wire electrode diameters: 0.25, 0.20mm and smaller (if possible)</li> </ul>
Power Requirements	<ul style="list-style-type: none"> <li>• 220V/ 50Hz</li> </ul>
Supporting software	<ul style="list-style-type: none"> <li>• The instrument should be installed with latest available version of software for control, operation and analysis.</li> <li>• The supplier should upgrade the software as and when the upgradations become available for at least five years from installation</li> <li>• Should have intelligent calibration logic</li> <li>• Continuous automatic hardware diagnosis</li> </ul>
Computer and Printer	<ul style="list-style-type: none"> <li>• The equipment should come with a high performance computer with all the requisite software installed on it</li> <li>• Minimum Configuration: Intel dual core processor, 4 GB RAM, 500Gb Hard Disk, 24” Display with other essential peripherals</li> <li>• Laser printer should be provided with the computer</li> </ul>
Safety Norms	<ul style="list-style-type: none"> <li>• The instrument should include safety devices for protection against vacuum, water , power etc</li> <li>• The instrument should be compliant with international norms for safety and environment</li> </ul>
Installation, Commissioning and Training	<ul style="list-style-type: none"> <li>• The delivery of the equipment should be considered complete only after successful commissioning of the instrument</li> <li>• The pre-installation requirements should be communicated to IIT Kanpur well in advance of the installation</li> <li>• The Installation, commissioning and training should be done only by well trained factory engineers</li> <li>• The supplier should provide training to at least two candidates at the installation site to make them familiar with smooth operation of the instrument</li> </ul>
Guarantee	Preferably 3 years
After-sales Service	<ul style="list-style-type: none"> <li>• The supplier should provide a prompt after-sales service such as regular instrument maintenance, troubleshooting and fixing</li> <li>• The list of service centers in India should be included.</li> </ul>

## Technical Specifications for Electric Discharge Machining

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><li>• An undertaking that the vendor will supply all the spares and services for the equipment for at least 5 years from the date of commissioning</li></ul>
Annual Maintenance Cost	Include the cost of annual maintenance for each year for five years after the guarantee/ warranty period. Provide the amount and the terms, Note that those providing better after sales service and support with written evidence will be given preference
<b>*Additional optional accessories should be indicated separately along with their price. The above specs are desirable and the actual numbers achievable for your system should be indicated.</b>	