

**Mechanical Engineering Department  
Indian Institute of Technology Delhi**

Dated: 20/11/2013

**NOTICE INVITING QUOTATIONS (NIQ)**

Quotations are invited for the purchase of Electric Discharge Machine (EDM) for teaching and research/development work. The desired technical specifications are as given below.

| S. No. | Feature  | Unit            | Magnitude range  |
|--------|--|-----------------|--|
| 1      | Work tank dimensions   | mm              | (550 to 650) x (400 to 420) x (300 to 320)             |
| 2      | Table size   | mm              | (380 to 420) x (225 to 280)                            |
| 3      | X - axis travel  | mm              | 175 to 225   |
| 4      | Y - axis travel  | mm              | 125 to 175   |
| 5      | Z - axis travel  | mm              | 125 to 175   |
| 6      | Table assembly construction  |                 | Should have Linear Motion Guides                       |
| 7      | Maximum job height   | mm              | 150  |
| 8      | Maximum job weight   | kg              | 50   |
| 9      | Minimum distance between Work electrode mounting surface and table top | mm              | 500  |
| 10     | Maximum dielectric tank capacity                                       | Liter           | 200  |
| 11     | Dielectric   |                 | Should work with dielectric like kerosene and EDM oils |
| 12     | Controller   |                 | Embedded EDM Logic ZNC Controller                      |
| 13     | Maximum nominal current  | A               | 20   |
| 14     | Maximum material removal rate (Cu to Steel workpiece)                  | Mm <sup>3</sup> | 140  |
| 15     | Maximum surface roughness (Ra)   | micron          | 0.5  |
| 16     | Maximum electrode weight   | kg              | 75 to 100  |
| 17     | Connected load   | KVA             | 4  |
| 18     | Z axis Motor   | Type            | DC micro stepping motor                                |
| 19     | Z Axis programming steps (minimum)                                     |                 | 10   |
| 20     | Minimum no of ON time settings   |                 | 50   |
| 21     | Minimum no of OFF time settings  |                 | 50   |
| 22     | Minimum no of program memory   |                 | 50   |
| 23     | Stabilizer   | KVA             | 6  |
| 24     | Job clamping sets  |                 |  |

The quotations should be submitted in sealed envelope (technical bid with compliance report and commercial bid separately) to ME office/stores/undersigned latest by **11/12/2013 5.00 p.m.** In case your item is proprietary; please submit a certificate along with the quotation. Please subscribe the envelope with **“EDM MACHINE-Production Lab.”**

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