

**INDIAN INSTITUTE OF TECHNOLOGY, DELHI**  
**MECHANICAL ENGINEERING DEPARTMENT**

March 7, 2013

**NOTICE INVITING QUOTATIONS**

Quotations are invited for a double action hydraulic press for sheet metal forming with the following technical specifications.

**Technical specifications**

1. Type of the press : Double action hydraulic press for sheet metal forming preferably with die cushion from bottom.
2. Construction : 4 pillar/column type
3. Total capacity of the press : 60 ton
4. Main ram capacity : 40 ton
5. Blank holder ram capacity : 20 ton
6. Main cylinder stroke (min) : 450 mm
7. Blank holder ram stroke (min) : 300 mm
8. Day light gap : 600 mm
9. Bed size (min) : 500 x 500 mm
10. Table height from floor level : 750 mm
11. **Mode of control** : The press should have PLC with displacement control and speed control for the main ram. Desirable speed range 0.1mm/sec to 10mm/sec. The displacement resolution should be 0.05 mm or lower.
12. The machine should be equipped with the required instruments and software for acquiring load-displacement data during the operation.

**Note:**

1. All the technical specifications along with make should be clearly mentioned in the quotation.
2. **Validity:** Quotations should be valid at least for a period of 90 days.
3. Additional costs like taxes, shipping, if any, should be clearly mentioned.
4. Details of warranty should be clearly mentioned.
5. **Terms of payment:** Letter of credit or after installation within 30 days.
6. NEFT mandate form should also be enclosed.
7. **Institute's rights:** IIT Delhi reserves the right to accept or reject any or all quotations.
8. **Submission of Quotations:** Technical and commercial bids in separate sealed envelopes should be submitted in a sealed cover to "**Prof. D. Ravi Kumar, Dept. of Mechanical Engineering, (Block-II, 357), Indian Institute of Technology Delhi, Hauz khas, New Delhi -110016, India**" latest by **4.00 PM on 21<sup>th</sup> March 2013.**

Prof. D. Ravi Kumar  
Department of Mechanical Engineering, IIT Delhi