



Department of Metallurgical and Materials Engineering

Indian Institute of Technology Madras

Chennai - 600 036, India

March 13, 2013

Prof. Uday Chakkingal

To:

Ref: MET/UDAY/2012/1

Dear Sir/Madam,

Please provide your best quote for 1000 kN (100 ton) closed frame hydraulic press as per the technical specifications attached in Appendix 1. The following must be complied with:

1. Last date for receipt of the complete technical and financial bids is 4 pm on Wednesday, **April 3, 2013**.
2. Technical and financial bids are to be submitted in separate sealed envelopes. The envelopes should be clearly labelled "Technical Bid" and "Financial Bid" respectively. Both of these envelopes should be put in a larger envelope and the Ref no. should be clearly written on top of the envelope.
3. Brochure detailing technical specifications and performance, technical drawings (if any), list of industrial and educational establishments where such equipment have been supplied must be provided.
4. All quotations must be valid for a minimum of 60 days from the due date.
5. Compliancy certificate is to be provided indicating conformity to all the technical specifications.
6. Excise duty % to be indicated, if any.
7. VAT % to be indicated, if any.
8. Warranty period must be clearly indicated; a minimum of 1 year warranty required.
9. Details of post warranty service/ annual maintenance contract are also to be indicated.

Pl. address all quotations to Prof. Uday Chakkingal, Dept. of Metallurgical and Materials Engg., IIT Madras, Chennai 600 036.

Thank you.

Yours sincerely,

Prof. Uday Chakkingal

APPENDIX 1

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

IIT MADRAS, CHENNAI 600 036

March 13, 2013

Technical Specifications for 1000 kN (100 ton) closed frame hydraulic press

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1. Main slide

- 1.1 Main slide force of 1000 kN
- 1.2. Table dimensions 800 mm x 800 mm
- 1.3. Stroke of 300 mm
- 1.4 Daylight of 800 mm

2 Die Cushion

- 2.1 Die cushion force of 500 kN (hydraulic second action at bottom)
- 2.2 Table dimensions 200 mm x 200 mm
- 2.3 Stroke of 100 mm

3. Pressing speed

- 3.1 Main action up to 10 mm/sec.
Should also enable inching operation for die setting
- 3.2 Second action (die cushion) up to 5 mm/s (should facilitate speeds of 1, 2, 3, and 4 mm/s)
- 3.3 Should also enable inching operation

4. Bed bolster of appropriate thickness with radial slots for bolts.

5. Manometer for all actions with pressure and force indicators.

6. PLC push button controls preferable.

7. Appropriate safety devices to be provided.

8. Emergency stop button.

9. In case of power supply shut down, safety mechanism to ensure press does not start automatically when power supply is restored.

END