

Revised 14/11/18

**Three Roller Plate Bending Machine**

|    |   |  |
|----|---|--|
| 1  | Bending Capacity (Maximum)<br>(plate of tensile strength of 45 Kg/mm <sup>2</sup> )                     | Up to 12 x 1500 mm<br>3 roll PYRAMID type design machine with double pre-pinching arrangement.   |
| 2  | Bending Capacity ( Minimum)   | 3 mm x 2000 mm   |
| 3  | Bending Length  | 2000 mm  |
| 4  | Top Rolls   | 230 or less  |
| 5  | Bottom Rolls  | 200 mm or less   |
| 6  | Motor   | 15 HP or less<br><br><ul style="list-style-type: none"> <li>• Electric motors of reputed makes (KIRLOSKAR/SIEMENS/CROMPTON/ABB.</li> <li>• Switch gear from L&amp;T/TC/BCH/SIEMENS.</li> </ul> <p>The OEM to provide catalogue / drawings of the items offered.</p>  |
| 7  | Essential Items   | Federer Roller Stand Both Side ( In & Out)<br>1500 mm (width) x 1000mm ( Length) x Height to Suit<br>(Machine Bottom Roller Height)  |
| 8  | Standard Construction   | <ul style="list-style-type: none"> <li>• The robust welded structure is made of UT tested IS: 2062 M.S. plates.</li> <li>• Both Bottom roll adjustments are done by hydraulic cylinders for double pre-pinching.</li> <li>• Bending rolls are made of alloy steel.</li> <li>• Bottom rolls are power driven rolls.</li> <li>• Motorized end dropper arrangement.</li> <li>• Main drive motor.</li> <li>• Manual centralized lubrication system.</li> <li>• Reverse / Forward roll drive with overload protection</li> <li>• MOVABLE ELECTRIC CONTROL PANEL DESK</li> </ul> |
| 9  | Optional Item<br>( Quoted Separately & for information only, Not to be considered in evaluation of L1 ) | Optional items if any for smooth operation of machine<br>OEM has to be mentioned & Quote   |
| 11 | PRE DESPATCH INSPECTION   | Before inspection of the machine at OEM's works, Test pieces will be carried out by the OEM. All the tooling, work holding devices & Standard test piece will be supplied by the OEM at free of cost.  |
| 12 | INSTALLATION & COMMISSIONING OF THE MACHINE   | Installation, commissioning & proving of the machine to its desired capacity and complete at Customer site and will be done by the OEM's engineer. Commissioning work  |

*[Signature]*  
14/11/18

|    |                            |   |
|----|----------------------------|---|
|    |                            | <p>including acceptance test/component trial will be carried out by the OEM's Expert.</p> <p>During commissioning at least 10 nos. Of different thickness and materials test pieces will be produced on the machine and test pieces will be inspected for dimensional accuracy.</p> <p>The commissioning will be treated as complete when we issue the certificate of acceptance. Installation, commissioning &amp; proving of the machine to its desired capacity and complete satisfaction</p>  |
| 13 | TRAINING                   | The OEM shall have to provide onsite training to 3-5 persons exclusively for minimum seven working days in the field of programming, operation, maintenance (mechanical/hydraulic/electrical) etc.  |
| 14 | WARRANTY & SERVICE BACK UP | The complete machine must have comprehensive onsite warranty from the date of successful commissioning as per below period: 12 Months   |
| 15 | DOCUMENTATION              | Three sets of hardcopy in English language and one set of soft copy in English language Programming, Operating and Maintenance manual .<br>a) Mechanical b) Electrical  |
| 16 | IMPORTANT Notes            | <ul style="list-style-type: none"> <li>• <b>Vendors should provide in the technical document compliance sheet against the specification of CSIR-CMERI.</b></li> <li>• <b>Comments like yes, agreed, will be given at the time of supply, confirmed and will be completed ARE NOT ACCEPTABLE where numerical values are required to be quoted.</b></li> <li>• <b>THE MACHINE MODEL BEING OFFERED MUST BE A STANDARD LATEST MODEL.</b></li> <li>• <b>THE DATE OF DISPATCH SHOULD BE WITHIN ONE YEAR FROM DATE OF MANUFACTURING.</b></li> <li>• <b>THE OEM MUST HAVE AT LEAST 15 INSTALLATIONS OF THE OFFERED SYSTEM IN INDIA (DOCUMENTARY EVIDENCE MUST BE SUBMITTED).</b></li> </ul> |

*D. S. D.*

*L. S. D.*