

MATERIAL CODE: EL8491800034

1800-01
Rev.00

PURCHASE SPECIFICATION FOR HYDRAULIC PELLET PRESS MACHINE FOR XRF

ISSUE NO : 06

DOC.NO: SCR-TE-010

REV : 00

SEPT 2019

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General Description of the Equipment

Hydraulic Pellet Press Machine for the preparation of pellets for XRF analysis. The offered machine should be capable to create pellets from powdered materials. The compaction of pellet should be achieved under uniform load distribution such no particle comes out from pellet during analysis.

Features:

- Semiautomatic press
- Highly durable and sturdy machine
- Longer service life
- Easy and speedy operation

Product details

Mounting Type	Floor mounted (vendor to indicate if special foundation is needed)
Voltage	415 V/ 440 V Three phase AC.
Working principle	Pressure
Maximum Feed Size	Pulverized Samples
Output	Compacted pellets
Max Force (Load)	400 kN (40 Tons) with Digital display of set and Actual Load
Feed Material	TiO ₂ , Clay, AMV etc.
Safe Operating Pressure	Minimum 200 Bar (Digital display of set load & Actual Load)
Piston Stroke	Minimum 45mm

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Revision (00):	Issued By	Prepared By	Checked By	Approved By	Date
1 st Issue	SCR PROD GROUP	ANTARA BARAL	PRATAP MUKHERJEE	K. S. RAVISHANKAR	13/09/2019

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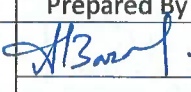
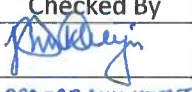
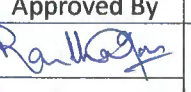
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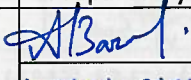
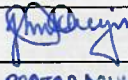
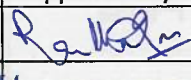
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Hydraulic Pump Capacity	Minimum 4LPM (Litre per Minute) at 250 bar
Hydraulic Pressure	Minimum 250 Bar
Hydraulic Oil	Grade 68 or Equivalent.
Force Range	5 Tons to 40 Tons (Digital Setting)
Maximum Fill Height in Die	20 mm
Pallet and die details	Pellet with Al cup base of 40 mm dia. Bidder to include suitable die in the offer
Time for one Compaction cycle	Approx. 50 Sec (programmable)
Oil Tank Capacity	Bidder to indicate
Motor Drive	Motor Power: Minimum 3HP RPM: Minimum 1440 Volts: 415 ; 3phase induction motor
Motor Make (Preferably)	NGEF, SIEMENS, KIRLOSKAR, ABB, CGL (motor to be BIS certified)
Machine Height and weight	To be specified by the vendor

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A. <u>Pre-Qualification Requirements:</u> - The offer shall be for a new instrument currently available worldwide for sales. Used or refurbished instrument is not acceptable. - The bidder shall be a manufacturer of hydraulic pellet press machine and having adequate design and manufacturing capability for the range of equipment. - The bidder should have manufactured, supplied and successfully commissioned similar type of instruments minimum of 3 numbers in India in last 3 years. Details of user list along with model name and contact details of users to be submitted along with technical bid. - For imported equipment, the vendor shall have authorized local representative/office providing after sales service. - BHEL reserves the right for independent evaluation of the compliance to Pre-Qualification requirements. B. <u>General requirements for equipment:</u> - The machine should be guaranteed for a period of 12 months from the date of commissioning or 18 months from date of supply, whichever is earlier. - During warranty period, if there is any repair to be carried out at the supplier's works, transportation cost of equipment/component besides repair / replacement charges, if any, should be borne by the supplier. All the related formalities should be borne and arranged by the supplier. Only manufacturers certified service engineers are allowed to provide warranty support, installation and training. - Product Catalogues and related technical information should be provided in the techno-commercial offer - Training: Successful bidder shall arrange to provide on-site operational and application training for minimum 2 working days after installation and commissioning of the equipment. - Installation & Commissioning should be carried out at BHEL EPD. Pre- installation requirements should be furnished								
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COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	6. Two hard copies of all the operational manuals have to be provided along with the equipment 7. Dimensions of equipment, weight and space requirements should be submitted in technical offer. 8. The bidders shall provide the details and make of bought out components / sub-systems. BHEL may suggest other makes of industry standard and preferably wherein after sales support is available in India. During Technical evaluation stage, BHEL reserves the right to indicate the specific make of the brought out component opted. C. <u>Suitability of operating Condition</u> Ambient conditions: 1. Temperature: 20 to 45 degree Centigrade (If the instrument requires specific environmental condition, bidder to indicate the requirements) 2. Relative humidity : Max 80% Elevation of Bangalore: 920 meters from mean sea level Vendor to confirm that the machine is suitable for the above and details of provisions on the machine for the same are to be furnished by the vendor. D. <u>Acceptance Criteria</u> BHEL reserve the right to carry out pre-dispatch inspection at manufacturer works. Manufacturer should inform BHEL 15 days prior to dispatch of the machine.		REV : 00	SEPT 2019	
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