



Pt. Ravishankar Shukla University, Raipur 492010 (C.G.)



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(SoS in Physics & Astrophysics)

Tender Notice

No. 554/Physics/2019 Date ²⁵/01/2019

Scaled tenders are invited from reputed firms/manufacturers/authorized dealers for **Hot-rolling Press Machine and Muffle furnace** along with accessories. Details of the tender and specification of equipments are available in the university website www.prsu.ac.in and www.cg.nic.in. Tender should accompany two separate DDs for Document Cost Rs 1000/- and EMD @ 3% of the quoted amount.

Last Date of receipt of tender: 13/02/2019, 5 PM; Opening of Technical Bids: 15/02/2019, 12 Noon;
Opening of Financial Bids (Technically qualified tenders only): 15/02/2019, 3:00 PM


Registrar

N. Ramakrishna
Professor & Head
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Specification for HOT Roll Press machine

Technology parameters:

Roller diameter : 2- Φ 96mm

Roller hardness : HRC62

Roller fineness : >0.8

Calendaring thickness : 0-2mm, adjustable

Press width : 0-100mm

Calendaring temperature : RT-130 °C, adjustable, display

Source voltage : AC220V/50Hz (with transformer to 110V)

Power : 1.2KW

Speed : 0-40mm/s

Dimension : L500mm*W220mm*H320mm

TECHNICAL SPECIFICATIONS for high temperature furnace: -

Maximum Temp.: 1500° C

Working Temp: 1400°C; **Temp. Accuracy:** ±1°C

Heating Elements: Silicon Carbide, with end connection, easily replaceable.

Inner Chamber: Ceramic Board with base plate of Silicon Carbide, with heating elements placed on the top.

Insulation: Ceramic Fibre of Zirconia grade

Construction: Tripple walled with air insulation on the outer side For Minimal Skin Temp.

Body: Made of mild steel duly Powder Coated

Door: Hinged type insulated with ceramic fibre and has a viewing cap.

Power Control: SCR unit (Phase Angle Thyristor)

Temp. Control: Microprocessor based PID

Programmable controller with 1 prog x 16 segments

(ramp / soak). Dual display of Set & Actual Temp.

with soft touch keys. With Thermocouple break protections & Cold junction compensation. CE mark to Meet EMC regulations.

Sensor: Pt / Pt – Rh 13%

Safety: Over current and Short Circuit Protection.

Thermocouple break alarm. High Temp. alarm.

Power Supply: 220 volts, single phase AC supply.

Inner Muffle Size: W x H x D

4" x 4" x 9" inch