



Department of Metallurgy and Materials Science

College of Engineering, Pune
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No.: COEP/Met/ /enquiry/2020-21/336/29/09/2021

Date: 28/09/2021

To,

Vendor (s)

Subject: Powder Compaction Rolling Mill

Please quote for the following items with detail bifurcation of basic cost, taxes and other charges if any-

| Sr No | Powder compaction Rolling Mill: technical Specification | Qty |
|-------|--|----------|
| 1 | <p>Detail Description: Two high rolling mill with vertical mount and robust frame made of steel; Mechanical fixing and easy replace incase of mechanical damage; 6" width x 4" diameter precision thin strip (minimum 0.5mm and above required) rolling mill complete with oil filled gearbox and with coupling system for roll drive with 3.0 HP 960 RPM, three phase AC electrical motor and with auto lubrication and emergency stop system; Required torque (60N.m) should be remain constant at roller output within the speed limit (0-25RPM); Motor should be coupled with robust worm pinion gear box capable to give required torque (60 N.m) and output speed.</p> <p>Roll Material: AISI D2 Tool Steel; Roll should be hardened and double tempered to hardness about 60 HRC and buffing of roll surface with surface finish less than 0.3 μm. Total Roll Width 6 inch x Total Diameter 4 Inches).</p> <p>Working Roll Gap Adjustment: Minimum 0 mm to maximum 5 mm working depth required; Rectangular groov/cavity is required at the center of roll having width of 25 mm and 5 mm depth for powder compaction; Inside the cavity roll clearance should be zero (full surface contact is required across groove).</p> <p>Rolling Speed with VFD Control: 0-25 RPM; Rolling speed should able to control instep of 2RPM. From minimum speed of 0 RPM to maximum speed of 25RPM.</p> <p>Rolling Torque (N.m): 60 N.m; Roll torque 60 N.m should able maintain at all working speed and incremental variation of 2RPM through.</p> <p>All the accessories used in the rolling mill requires to furnish make and modelh VFD. Vendor to provide list of customer to whom similar machines has been supplied with email and contact details</p> | One Unit |

You are requested to quote competitive rate within 08 days from the date of issue of enquiry letter. Please note that, quantity specified in the above table is tentative and it may vary as per the need of department. Sealed envelope of your quotation shall super-scribe enquiry letter number.

Thanking you,

28.9.21.
Professor & Head
Dept. of Metallurgy and Materials Science
College of Engineering,
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Shivajinagar, Pune - 411 005