

**Department of Mechanical Engineering
Indian Institute of Technology, Kanpur**

IITK/ME/2012-2013/PMD-01

Date: 20/12/2012

Sealed Quotation for following term:

Opening date: 28/12/12

Closing Date: 05/01/2013

Department of Mechanical Engineering would like to procure 3 Lathe Machines with following specification:

Electromagnetic brake, foot pedal, electrical panel, with Momentary contact shaft for spindle operating

CAPACITY: Center height (175 mm), Swing over bed (Min. 350mm), Swing over cross slide (Min. 200mm), Distance between centre (Min. 600mm), Maximum facing diameter (Min. 350mm), Max weight of workpieces that can be held between chuck & tailstock supported by dead center (Min.185 kg), Maximum weight of work piece that can be held between chuck & tailstock supported by live center (Min.150kg)

HEADSTOCK: Spindle nose (A2-4), Spindle taper bore No.(Metric 45), Spindle sleeve No. (3 M.T.), Bore in spindle (40mm to 55mm at least one machine should be of 55mm)., No. of Spindle Speeds(2 x 8), Range of Spindle Speeds (RPM) 71-1800

TAILSTOCK QUICK LOCK TAIL STOCK LEVER OPERATED: Tailstock quill travel (Min. 140mm), Taper bore in sleeve No. (3 M.T.), Maximum offset of tailstock on either side of the centre line 12 mm

CARRIAGE: Cross slide travel (185mm), Compound slide travel(Min.100mm), Tool shank capacity (20 mm), Type of tool post Quick Change tool post

COOLANT TANK IN BUILT IN THE TS LEG ONLY

ELECTRICAL: Main motor 3 H.P, coolant Motor 0.1 H.P., WITH PANEL AND SPINDLE

OPERATING WITH SWITCH MOUNTED ON LEFT FEED BOX, Thread capacity inches(number of threads) 24, 4 to 56 TPI, Thread capacity metric(number of threads)24, 0.5to 7mm., **SIDE OF THE**

SADDLE, WIRING CONNECTION ON THE REAR SIDE,

FEED BOX: Thread capacity inches(number of threads) 24, 4 to 56 TPI , Thread capacity metric(number of threads)24, 0.5to 7mm

Thread capacity module AND DP : 24, Module 0.4 to 3.5 mm: Lead screw pitch 6mm DIAMETER-30mm. with clutch for safety purpose,

Kindly direct the sealed quotations to the following:

Dr. P.M. Dixit

Head , Mechanical Engineering Department (For TA202)

Indian Institute of Technology Kanpur-208 016,

INDIA E-mail: pmd@iitk.ac.in Phone: 0512-2597627 (office)