

**GEOTECHNICAL ENGG. SECTION**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**NIQ**

Sealed quotations are re-invited (NID 494) for SPECIMEN GRINDER

Technical specifications

The shall be used to grind and polish rock and concrete specimens, natural stones, ceramic materials, etc. The cube and cylinder specimens shall be locked on the table and the grinding head, 330 mm dia., shall be moved either manually or automatically in both directions so, the only manual operation required is the lowering of the grinding head by the top hand wheel. The machine shall be supplied complete with safety chip guard that, when removed, stop automatically the machine, with coolant tank, motor pump and one set of abrasive sectors. Diamond grinding sectors are required. The machine should be with clamping element for 100, 150 and 200 mm cubes and for cylinders and device for dry grinding procedure are also required. The core face preparation jig shall be fitted by same clamping element. The following technical features shall be included.

- Table dimension: 775x280 mm
- Grinding wheel dia: 330 mm
- Max vertical daylight: 350 mm
- Min vertical daylight: 145 mm
- Max specimen size: upto 200 mm cubes and 80x240 mm cylinders
- Grinding head stroke: 205 mm
- N° of grinding segments: 10
- Grinding wheel speed: 1400 r.p.m.
- Automatic cross feed in both directions
- Safety guard with door locking switch
- Total power: 220V
- Overall dimensions (lxwxh): 1200x1020x1640 mm
- Any accessory if needed

The NIQ should be addressed to Prof. K. S. Rao and to be submitted to Department of Civil engineering, IIT Delhi, Hauz Khas, New Delhi – 110016, India latest by 5.00 pm on October 31<sup>st</sup> 2012. Interested parties are required to submit their technical and commercial bids in separately sealed envelopes and marked respectively as “Technical Bid” and “Commercial Bid” on the outside. Those who have already submitted the Bid, do not need to submit it again. Price should be quoted to CIF New Delhi. (IIT Delhi). The validity of quotation should be at least three months.