

Specification for Digital Rockwell cum Brinell hardness testing Machine

A. Major Parameter

- 1) Type—Digital Rockwell cum Brinell (model RASNEB-1 or similar)
- 2) Hardness Range—Hardness of very soft material like lead to very hard material like hardened Steel.
- 3) Hardness value—Rockwell hardness and BHN.
- 4) Major Load—(60,100,150,187.5, 250 Kgf)
- 5) Minor Load—10 Kgf
- 6) Max Test height—230 mm, acceptable upto 300 mm.
- 7) Depth of throat—133 mm
- 8) Wt .Approx.—70 kg to 100 kg acceptable.
- 9) Operation Cycle—Automatic Load /Dwell /Unload.
- 10) Resolution—0.1 Rockwell.
- 11) For Brinell scale—187.5 / 250 Kgf manual selected with respected ball indenter impression of ball dia measured by Brinell microscope.
- 12) Test Force Selection—By external dialing.
- 13) Set position—With LCD bar indicator.

B. Minor Parameter

- 1) Machine should be Power coated and paint shade should not fade.

C. Concomitant accessories (Standard accessories)

- 1) Testing table 50mm dia
- 2) Testing table 38mm dia with "V" groove for round jobs 6- 45mm dia.
- 3) Diamond indenter- Rockwell RA
- 4) Steel ball indenter 1/16" with 5 spare balls
- 5) Steel ball indenter 2.5mm with 5 spare balls
- 6) Test block Rockwell "C" with calibration certificate traceable to NPL/NML/NABL
- 7) Test block Rockwell "B" with calibration certificate traceable to NPL/NML/NABL
- 8) Test block HB 2.5/187.5 with calibration certificate traceable to NPL/NML/NABL
- 9) Allen Spanner 5 Nos.
- 10) Screw Driver 1 Set.
- 11) Clamping device.
- 12) Wooden box for std. accessories.
- 13) Telescopic sleeves for elevating screw position 1 Set.
- 14) Spare fuse 1 AMP.
- 15) Power cable.
- 16) Brinell microscope.
- 17) Machine cover.
- 18) Instruction Manual including Drawing of Machine with electrical circuit diagram 2 Nos.

D. AMC- Not required.

E. **Warranty requirement-** Required for 24 months from the date of installation and commissioning.

F. **Special requirement-** Supplier to ensure effective after sale services and supply of spares during and after warranty period for 10 years minimum.


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Annexure-II

To be submitted by the firm along with offer-

Tender specification	Specification quoted by the firm	Deviation if any with clarification