

Annexure-I

Technical Specifications:

1. Type : Planetary Ball Mill (Planetary Micro Mill).
 2. Purpose / Capacity : For grinding geological materials like Rocks, Minerals, Sand, Stem of sediments and soil, Iron Ore, Iron Oxide, Ferrite, Brittle alloys, Graphite etc.
 3. Input product size : 5 mesh (6 - 8 mm).
 4. Output product size : Less than 1 Micron (Depending on Material to be ground).
 5. Number of Sample Holders : 4 Nos. on Rotating Table.
 6. Number of Bowls : 4 Nos.
 7. Material of Bowl with Lid : Hardened Steel with Tough Core
 8. Material of Grinding Ball : Hardened Steel with Tough Core
 9. Number of Grinding Balls : 50 nos.
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10. Diameter of Grinding Balls : 12 mm and 20 mm
11. Table speed : 40 - 400 R.P.M. Continuously Variable.
12. Table Speed Indicator : digital display.
13. Timer : 1-999 Min. With digital display
(Programmable).
14. Motor & Drive : AC motor with Variable speed AC Frequency control microprocessor based drive.
15. Setting Parameters on r.p.m. Display (Time and Speed) :
1. Table r.p.m : Plate Speed 40 — 400
 2. On Time : 1 — 999 minutes.
 3. Off Time : 1 — 999 minutes.
 4. No of Cycles: 1 — 999.
 5. Time Setting: Run Time + Off Time=
& digital display) 1 cycle, No. Of Cycles
(1 to 999), (1 to 999
Minutes) Total Time =
(Run Time + Off Time)
X No. of Cycles

6. Direction of: Forward, Reverse &
Rotation Alternate direction

7. Acceleration — 1 to 60 Seconds.

8. Deceleration — 1 to 60 Seconds.

9. Door Position: Open or Close.

(For Safety)

10. Indications:

a). Plate r.p.m.

b). Bowl r.p.m.

c). Total Cycles & Current Cycle No.

d). Set Time.

e). Balance Time.

16. Power Supply : 230 V AC.

17. Safety Features : Door Switch for Machine, Current
Over Load Safety for Motor Protection.

18. Type of mounting : Capable of operating on a platform /
Floor mountable.