



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY  
MATERIALS MANAGEMENT DIVISION  
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RFx. No.6100001356

### SPECIFICATION for Vibratory Disk Mill

#### The Pulveriser/Vibratory Disk Mill should have the following feature:

1. Material feed size < 15 mm.
2. Final fineness <20 micron.
3. Batch Size 15 – 250 ml
4. Grinding jar sizes (ml) 50 / 100 / 250 ml
5. Drive 3-phase asynchronous motor with frequency converter.
6. Drive Power  $\leq 1.5$  kW
7. Stabilized-Plane-Drive to avoid tumbling of the grinding set.
8. Speed should be between 700 - 1,500  $\text{min}^{-1}$
9. Recognition for automatic speed reduction
10. The enclosure should provide protection against access to hazardous parts and the ingress of solid foreign objects.
11. Safety interlock so that machine can be opened when stand still.
12. 10 SOPs can be stored.
13. No sample loss should be there.  Contamination free grinding
14. Noise-insulated grinding chamber
15. *Required Material of grinding tools - Hardened Steel 250 ml*
16. Quick action grinding set clamping device for convenient and safe tightening of the jar
17. Safety interlock
18. Coloured graphics display
19. Removable carrier handle for easy removal of grinding jars
20. Ergonomic design, heavy grinding sets can be inserted closer to the user's body and slides into the machine, leading to less strenuous laboratory work.

**\* Warranty: - 12 Months from the date of Installation.**