

Annexure-1

TECHNICAL SPECIFICATIONS PLANETARY BALL MILL

- **No. of stations – 2 Working stations**
- Maximum feed particle size - upto 5 mm
- **Final fineness < 1 μm** (Documentary evidence should be attached.)
- No. of bowls - 2 bowls of 45 ml volume
- Grinding balls – 40 No's of 10 mm balls
- Bowls and balls Material - Hard metal tungsten carbide.
- Speed up to **800 rpm**
- High energy milling with centrifugal acceleration up to 50 g ($g = 9.81 \text{ m/s}^2$).
- **Effective diameter of main disk should be 140 mm**
- **Transmission ratio should be 1: -2**

Required features:

- Dry and wet grinding capability.
- Bench top model with high grinding performance
- No-Loss grinding, even in suspension
- Short milling times
- Compensation of unbalance of all grinding bowls using a compensation mechanism which is easy to operate.
- Built-in cooling of grinding chamber to permit longer uninterrupted grinding.
- Programmable interval and break times and rotation direction (clock wise & anti clock wise)
- "Safe lock" clamping system
- Absolutely reproducible grinding parameters with use of synchronous belts for transmission.
- Simple cleaning of grinding elements.
- Documentary evidence should be attached.