

Annexure-A

SPECIFICATION OF THE BEAD MILL

Instrument	Horizontal Bead -Mill Specification <ol style="list-style-type: none">1. Suitable for continuous or cyclic process, and easy to operate.2. Mechanical seal with compact structure, cooling system should be good to ensure the mechanical seal can give long term service.3. Finely dispersed and grinding material with different viscosity from micron to nanometer.
Rotation Speed for Bead mill	0-3000 rpm (adjustable by frequency converter)
Volume of Grinding Tank	Minimum 1000 ml
Material of PEG	High Grade SS 316, High wearing-resistant, no rust, no pollute materials.
Material of inner chamber	High grade SS 316, High wearing-resistant, no rust, no pollute materials, good heat conductivity
Flow of cooling water	20 LPM
Feeding pump	Gear Pump, S.S. 304 steel
Cooling system	High efficiency large area spiral ribbon type jacket water circulating cooling
Meter	Electric contact Pressure Meter and electric contact Temperature Meter (with temperature protection, auto-stop function)
Seal	Cartridge Double Mechanical Seal (dedicated for bead mill) With special pressure protection device to ensure longer service life it can bear pressure higher than 10 kgs. Dedicated for bead mill. Independent cooling system
O-ring	Good quality
Bearing	Preferable SKF
Grinding media	Zirconia beads (with 95 % zirconium content)

Sieve	Static large area radial direction sieve, not damage Beads or cause beads blocking gap size: 0.05 mm,0.1mm,0.3mm, 0.5mm optional
Other requirements	1. ZIRCONIUM BEADS -10kg 2. Chiller, 2TR: Ability to lower temperature of grinding chamber.