

**SPECIFICATION FOR GRINDING MILL FOR FROZEN SAMPLES**  
**(ITEM NO. 1. TENDER NO. 27/2016-2017)**

**Specifications for Grinding mill for frozen samples**

- Specifically designed for cryogenic grinding and pulverizing tough and/ or temperature sensitive samples in a grinding vial immersed in liquid nitrogen.
- Large cryogenic mill that will accommodate sample sizes ranging from 0.1 – 50 grams.
- Equipped with insulated case and lid safety interlock switch for operator protection.
- Preferably Auto – Fill system required for automated filling with liquid nitrogen.
- Touch- screen programmable controls for grinding cycles, time, impact rate, pre-cooling and cooling times, Dimensions about 20 x 20 x 20 inch

**Accessories required:**

- Grinding Vial packs consisting of centre cylinder, two end plugs and impactor in chromium free stainless steel material suitable for
  1. Small (less than 5 g or 2 to 5 ml reaction vial)
  2. Medium (5 – 25 g)
  3. Large sample sizes ( 25-50g)
- Large Polycarbonate Centre cylinders for specific applications
- Long Cryogenic Transfer Hose

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