## **Specification for Retsch Mixer Mill (Model: MM400):-**

Benchtop Ball Mill for Mechanochemistry and chemical synthesis.

Main Instrument with Grinding Jar Zirconia with Steel Protected Casing 10 ml-2 No.

Grinding Balls of Zirconium Oxide Balls: 5 mm - 200 Pcs, 10 mm - 6 Pcs.

A minimum of 10 Installations should be there in India for the same Instrument, Vendor must submit a Copy of the Installation report/PO Minimum of 10 Customers and a list of remaining customers. Minimum 5 Instruments should be installed in IITs /IISERs. 2 Performance Certificate of Ball Mill minimum 3 Year of Operation.

The instrument should be On the Self; R & D stage Instrument will not be accepted. Demo of the instrument can be ask stage of Tender.

The vendor must provide a Printed Catalogue and Web Link of the Product with the specifications given below:

impact, friction
Dry/Wet/Cryogenic Grinding
<= 8 mm
~ 5 µm
max. 2 x 20 ml
2
3 – 30 Hz (180 – 1800 min-1)
30  s - 2  min
Yes
Yes
Yes
yes, up to 20 x 2.0 ml
yes
Material of grinding tools hardened steel, stainless
steel, tungsten carbide, agate, zirconium oxide,
PTFE
Vendor should have PMMA, Transparent Jars and
setup for Raman spectroscopy
1.5 ml / 5 ml / 10 ml / 25 ml / 35 ml / 50ml
10 s – 99 min
Touch Screen Colour Display
Storable SOPs - 12 and Editable programs- 6
Memory for 12 Standard Operating Procedures
(SOP) and 6 program cycles
Calibrated facility should be available with
Instrument
100-240 V, 50/60 Hz

Power connection	1-phase
Protection code	IP 30
Power consumption	150 W
Net weight	Table Top ~ 28 kg or less
Standards	CE and UKCA Safety Documents (Instrument
	should comply BS EN ISO 12100 Safety of
	machinery - General principles for design
	BS EN 61010-1 )