

Planetary Ball Mill

- 1) **Scope:** Supply, Installation, Commissioning and demonstration of Planetary Ball Mill.
- 2) **Specification:**

a)	No. of bowls & material	2 nos., Hardened Steel
b)	Bowl holder capacity	250 ml each
c)	Hardened Steel Ball	50 Nos for each diameter (Ø10, 15 & 20mm)
d)	Wheel rotation speed	Up-to 650 RPM (party has to specify the minimum rotation speed in quotation)
e)	Jar Speed	Up-to 1300 RPM (party has to specify the minimum rotation speed in quotation)
3)	Mounting Type	Bench Mounted.
4)	Grinding Conditions	Wet & Dry.
a)	Grinding Time Setting	Digital type with interval and pause facility.
b)	PLC controlled	Machine should have programmable PLC control system like Speed, run time, no of cycle, forward & reverse selection.
c)	Control Panel	
	Speed	<ul style="list-style-type: none"> • Wheel rotation speed • Bowl rotation speed
	Timer Cycle	<ul style="list-style-type: none"> • Programmable with digital display. • Party has to specify the range for ON time & OFF time. • Run Time • Balance Time
	No of cycles	<ul style="list-style-type: none"> • Programmable with digital display.
	Direction of rotation	<ul style="list-style-type: none"> • Clockwise & shall be reversed after each cycle. This shall be programmable.
	Rotation	<ul style="list-style-type: none"> • Forward & Reverse Programmable with digital display.
	Safety indications	<ul style="list-style-type: none"> • Door open, over load etc.

d)	Safety & Interlocks	<ul style="list-style-type: none"> • Door should be locked with the rotation. • Safety Guards shall be provided over the rotating body. • Motor shall be protected for current over load. • Emergency Stop switch shall be provided. • Proper ventilation like exhaust fan to be provided of grinding chamber for safe milling operation. • The set-up should be leak proof during wet & dry grinding operations. • Backup system should be provided to restore setting in case of power failure.
e)	Power Supply	VSSC shall provide power board with suitable capacity, Necessary connection from board to equipment shall be provided by the party.
f)	Warranty	12 Month (minimum)
g)	Delivery Period	Within 02 Month from the date of PO.

5) **Terms and Conditions**

- a) Pre-dispatch inspection (PDI) shall be carried out by VSSC personal at party's site prior to dispatch of Equipment.
- b) Party to take the full responsibility for installation, commissioning & demonstration of the equipment at VSSC site as per the purchase order.
- c) Two sets of operation & Maintenance manual to be submitted by the party along with the instruments,
- d) The equipments shall be fully guaranteed for its performance as per the specification for a period of 12 months from the date of commissioning and acceptance by VSSC.
- e) The party shall ensure after sale service and availability of spare parts for the offered equipment for a period of at least 10 yrs.

f) **AMC:**

- Party shall provide Non comprehensive service for 05 years after warranty.
- AMC shall consist of 01 preventive visit/year & breakdown visit (as and when required).
- The cost of AMC shall be quoted separately in the tender.