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No. III/SP/BSIP- 2274

Date: 28.01.2010

Dear Sir,

This Institute being recognized Research & Development Unit under Department of Science & Technology, Govt. of India, proposes to import the following items for the research work, kindly send the proforma invoice in triplicates for the same immediately: - Import-Export Items code number may be mentioned in the Proforma Invoice, which is required by our bankers in case of advance payment, Freight., Insurance etc will be paid in India in Indian rupees:-

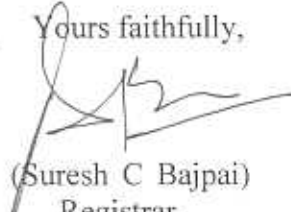
<u>Description</u>	<u>Quantity</u>
Grinding Mill ( Detailed specification attached)	One

**Proprietary Certificate of above may be attached.**

**Terms & Conditions**

- PRICE** : F.O.R. Lucknow covering Insurance from warehouse to warehouse by AIR / SEA FREIGHT / REGISTERED AIR MAIL PARCEL POST having validity not less than 120 days.
- DELIVERY** : Delivery date must be specifically mentioned in the Proforma Invoice.
- PROFORMA** : It should please be sent in triplicate so as to reach the undersigned on or
- INVOICE** : before **19.02.2010**
- STATUTORY**: Indian Foreign Exchange control Rules and Regulations do not permit inclusion in **OBLIGATION** the F.O.R. value, the commission, discount, or like rebate allowed by Foreign Suppliers / Manufacturers payable to their Indian Agents. Such Commission / Discount etc., if any, should please be specified separately in your proforma invoice to enable us to remit the same in Indian Rupees to your Indian Agents, whose complete name and address must be mentioned.

Yours faithfully,

  
(Suresh C Bajpai)  
Registrar

## SPECIFICATIONS FOR HIGH ENERGY SINGLE JAR PLANETARY BALL MILL

Heavy Duty, Table Top Laboratory Single Jar Planetary Ball Mill for grinding and mixing of Geological Samples down up to 1 micron and should comply with the specifications given below:

1. It shall be possible to grind/mix in simultaneously.
2. The system shall be suitable for size reduction, mixing and homogenizing.
3. The Planetary Ball Mill is capable of using single jar of 20ml to 500 ml and stacking of smaller sized jars.
4. Vendor has to supply assorted type of jars 20ml to 250 ml of Tungsten Carbide and other jar materials as an optional, with 3/5/10/20/mm dia grinding balls.
4. The grinding jars shall be provided with protective jacket of stainless steel with positive "O" ring seals on the lids.
5. The bowls shall be provided with identification marks indicating the item number, material and volume to facilitate easy trace ability. Space shall also be available for user defined labeling
6. Sun Wheel Speed ratio should be of 1: -2 with a dia of sun wheel diameter approximately 140 mm or better. The bowls shall be capable of rotating at a minimum high speeds from 100 to 650 rpm without spilling / leakage of the powders.
7. The Planetary Ball Mill should have Automatic direction reversal to avoid any agglomeration of the powder during grinding.
8. It should have automatic grinding chamber ventilation.
9. The rotating parts shall be fully enclosed and a safety locking system be provided such that the motor can be started only if the enclosure is placed firmly in position.
10. It shall be possible to run the equipment / mill in a sequence of operation such as slow start to maximum speed, a set time of rotating, reversing the direction after the set time etc.
- 9 System should have the graphic display for visualization of parameter like: set speed, grinding time, grinding direction reversal with input of running and interval times, delayed start time, remaining grinding time, display of drive load factor. operating hours. error messages and service intervals etc.. System should

have facility to store at least 10 or more combinations of time and other setting for repeated grinding processes.

10. To enhance the performance of the system for continuous operation , suitable fans shall be provided in the system to avoid over heating
11. Vendor to provide details of after sales support facility that can be provided to ensure smooth operation of the system during and after warranty period.
- 12 The offered system should be working on 230V, 50Hz power.
13. Vendor to give list of users where the offered equipment is supplied