

B.I.T. Sindri
P.O. - Sindri Institute, Sindri,
Dhanbad, Jharkhand -828123

Notice

Description : Supply and installation of Low speed diamond cutting machine/saw for Nanotechnology lab

Package Code : TEQIP-III/JH/bits/16

Package Name : TEQIP-III/BITSindri/OTH/NANO-DIAMOND CUTTER

B.I.T. Sindri, Dhanbad wishes to establish a Nanotechnology lab as a central research facility. The Technical specifications of the equipments/goods are provided below.

Interested manufacturers / authorized supplier are requested to fill in the Information Form (Annexure - A) given below and send the filled, signed and stamped hard copy on or before **4:00 P.M. of 10/07/2019** at following address -

Director, B.I.T. Sindri,
P.O. - Sindri Institute, Sindri,
Dhanbad, Jharkhand -828123

Formal request for Financial and Technical proposal will be sent to the applied valid firms after 10/07/2019.

Technical Specification

Following are the specifications and details for Diamond Cutting Machine/Saw for nanotechnology laboratory at B.I.T. Sindri, Dhanbad.

The Low speed diamond cutting machine/saw must be capable of cutting hard ferrous and non-ferrous samples as well as substartes like ceramic and glass. Arrengment must be provided for counter-balance to fine adjust cutting force on fragile/brittle samples. Further, arrengment must be provided with,

- 1) Cutting coolant assembly
- 2) Linear and rotary sample hold chucks/ vires.
- 3) Protective covers/shield for the machine.

SI. No.	Features	Detailed specifications of the features
1.	Blade diameter	3” - 6” supported
2.	Speed range	0-200 rpm with LCD digital display
3.	Microcontroller	Based stepper motor vice control
4.	Cutting wheels	Diamond sintered (5), SiC (10), Alumina (5)
5.	Speed Control	Manual
6.	Display	Motor RPM display
7.	Type	Table top - compact
8.	Cutting depth range	5 – 42 mm
9.	Minimum cut width	down to 0.2 mm
10.	Warranty and support	<ol style="list-style-type: none"> 1. 3 years comprehensive on-site warranty for all parts of the entire system including accessories supplied with the instruments from the date of successful installation and commissioning post warranty period will be for another 3 years for supply of all parts of the entire system, including accessories. If the system breakdown during warranty period, the warranty period will be extended for the full breakdown period after the expiry of initial warranty. 2. Service response time must be 48 hours or less. 3. On-site training must be provided by trained engineering at free of cost.
11.	Maintenance	The supplier is required to confirm that the spares and accessories would be available for more than 6 years after expiry of warranty and post warranty.
12.	Upgradation	The supplier shall supply upgraded software for cutting operation whenever they are available.
13.	Application notes & Manuals	The supplier shall provide detailed application notes and manuals of this instrument in hard and soft copy along with the detailed drawings and circuit diagrams (in English), and proper training to the operators on site free of cost.
14.	Required Documents	The supplier should have installed this instrument at least 10 places across the country for last 3 years. The supplier must provide a comprehensive list of uses of this instrument in India.

15.	Compliance statement	The supplier must submit a table indicating the compliance of the features of the model of the equipment being quoted with those given in indent.
16.	Pre-installation Requirement	Pre-installation requirement such as room size, vibration (mechanical), required power rating, utility requirements are to be stated clearly, and to be verified/ surveyed by the supplier at the installation site. It is the supplier's responsibility to clearly provide details of the above mentioned requirements before delivery of the equipment.
17.	Delivery & Insurance Coverage	Vendor will be fully responsible in successful delivery (including unloading), installation and commissioning of the instrument at site of installation in B.I.T. Sindri with fully insurance coverage as per rule.

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INFORMATION FORM

(To be properly filled, signed and stamped)

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Package Code : TEQIP-III/JH/bits/16

Package Name : TEQIP-III/BITSindri/OTH/NANO-DIAMOND CUTTER

1) Name of the firm :

2) Official address with Pin Code :

3) e-mail address :

4) Phone/Mobile Number :

5) PAN Number :

6) TAN Number :

7) GST Number :

8) Name of official Representative :

a) Post held :

b) Phone Number :

c) e-mail Address

We declare that we are interested to supply the above mentioned equipments/Goods

Date

Signature and official stamp