



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH THIRUVANANTHAPURAM [IISERTVM]**

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GST No.32AAAJI0299R1ZS

IISER/PUR/0997/AP/SEESS/24-25

Date: 09 Oct 2024

CORRIGENDUM

No: IISER/PUR/0997/AP/SEESS/24-25

Sub: Supply and installation of Rock Cutting Machine: reg
Ref: Tender ID:2024_IISRT_828721_1

1. The revised technical specifications are placed at Annexure 1 to this corrigendum. The due date and time of the tender are extended as follows:-

- (a) Due Date : 28 Oct 2024
- (b) Date of opening : 29 Oct 2024

2. All other Terms and Conditions remain the same. Bidders may quote accordingly

Thanking You,

Yours Faithfully

Anwar Sadath
9/10/24

Assistant Registrar (P&S)





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Annexure 1

Technical specifications and general conditions required for a Rock Cutting Machine:

A. Technical specifications:

1. The rock-cutting machine should be a robust floor model cutter specially designed for the preparation of petrographic sample cutting rocks, ore, fossils, minerals, ceramics and various geological samples.
2. The cutting capacity should be up to 80 mm diameter.
3. The motor should be of 5 HP (3.7 kw), 3 Phase motor.
4. The motor should be able to operate at or above 2800 RPM, ensuring efficient and precise cuts.
5. Supports cut-off wheels up to 12 inches (300 mm) in diameter, providing versatility for various sample sizes.
6. The cutting chamber should be durable, corrosion-resistant chamber designed for a long product lifetime, with a splash proof, transparent hood for safe and clear observation during operations.
7. User-friendly control panel with different switches: Cutting, Coolant, LED Illumination, and an Emergency Stop button equipped with a key and safety switch.
8. Should have an Easy flow cutting chamber and ergonomic cutting handle.
9. Should be equipped with four or more high-flow coolant jets for optimal cooling during cutting.
10. One large 60 mm or more coolant drain.
11. Should have an integrated movable recirculation coolant tank with 100 liters capacity.
12. Possess 1/3 HP coolant recirculation pump to ensure effective coolant distribution.
13. The machine must include bright, energy-efficient LED lighting to ensure clear illumination in the work area.

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14. Y-axis movement (longitudinal sectioning) of sample allows precise cuts up to 350 mm
15. X-axis movement: facilitates parallel slicing with a range up to 50 mm.
16. Features a robust T-slot bed measuring 260 mm x 260 mm with 8 mm T-slots for secure sample placement.
17. Cam Vise Set
18. The instrument should be operational at 415 V/50 Hz
19. Compact yet powerful, with overall dimensions making it suitable for laboratory environments.
20. The machine should include the following operational accessories:
 - Koppel Fixture (1 No)
 - Koppel Fixture (Imported - additional fixture to hold irregular shaped components) - (1 No)
 - Twin cutting (1 No)
 - Coolant spillage tray (1 No)
 - Special Fixture (designed specifically for our components) (1 No)
 - Brake Motor System (1 No)
 - Door Safety Inter Lock System (1 No)
 - Variable Speed System (1 No)
 - Phase Monitoring System (1 No)
 - Loto Switch & Tag Out (1 No)
 - Auto Wash (1 No)
21. Consumables should be made available with the equipment - Diamond cutting wheel (metal bonded high concentration) with continuous rim suitable for rocks, minerals, and concrete, etc. and also the coolant oil.
22. The machine should have the spares of
 - Water Proof Illuminator Set (1 set)
 - Coolant Jet Assembly (1 set)
 - Coolant tank filter bag (10 Nos)

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B. General conditions:

1. The packing, forwarding, installation, and training should be completely free of cost.
2. There should be at least three years of warranty on the entire unit from the date of installation.
3. The OEM should have supplied the same instrument to other educational and research institutions in India.
4. A technical demonstration will be done, if required, to understand the functionality, quality assessment, and comparative evaluation.
5. The equipment should be supplied to the School of Earth, Environmental and Sustainability Sciences, Indian Institute of Science Education and Research Thiruvananthapuram, Maruthamala P.O., Vithura, Thiruvananthapuram 695551, Kerala
6. Both the hard and soft copies of operating manuals for the operation of hardware and software should be provided.
7. A proper training session should be conducted after installation in which all the technicalities (both the hardware and software) should be explained.
8. The equipment supplied should be of the latest model from the manufacturer and the spare parts for the entire unit should be made available for at least the next 10 years.
9. Only the original OEM should participate in the tender or else their authorized dealers or representatives with an authorization letter or proof of supply from OEM should be included at the time of tender.
10. The bidder should have supplied instruments to other educational institutes in India. The purchase copies from those institutes should be attached as documentary evidence.
11. An undertaking from OEM is required stating that they would facilitate the bidder regularly with technology/product updates and extend support for the warranty as well.

Amar Sadasath
21/10/21

