



WADIA INSTITUTE OF HIMALAYAN GEOLOGY,
(An Autonomous Institution of Department of Science & Technology
Government of India)
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DEHRA DUN- 248001 (INDIA)

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No NO S-2 /175-P (AGPM) WIHG/2019-20 /12

DUE TO OPEN ON:30-12-2020

Sub: INVITATION OF TENDER

Dated:9-12-2020

To

Dear Sirs,

We intend to purchase '(Automatic Grinding and Polishing Machine) as per the details/specifications mentioned below. You are requested to submit your sealed tender/quotation/proforma along with compliance statement (Annexure 2) and technical literature / Brochure for the same on your own letterhead. Bid without Compliance statement and Technical literature /Brochure will be summarily rejected.

Sl. No	Description of Items	Quantity	EMD Amount
1	Automatic Grinding and Polishing Machine Specifications as per Annexure1	1No	44,000.00

TERMS AND CONDITIONS

- 1 Detailed terms & conditions of supply MUST be mentioned in your offer
- 2 Detailed technical specifications of offered System MUST be mentioned and the technical literature/write-up on offered item(s) must be submitted with your offer, failing which the offer is liable to be rejected. No correspondence from either side will be entertained once the bids are opened. The bidders are therefore requested to ensure that offer is as per tender terms.

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3. Comprehensive Warranty for a minimum period of 3 years against any malfunctioning from the date of Satisfactory installation, commissioning and final acceptance of supply **MUST** be available on the offered system. The warranty clause on these lines **MUST** be clearly mentioned on both technical and commercial bids. Offers with other warranty clauses will not be considered. After sales service facilities in India should also be available. Details of warranty/guarantee and the after-sales service facilities available in India must be specifically mentioned in your offer, failing which the offer is liable to be rejected.

4. The sealed tenders/quotations/offers are to be submitted in **two parts** as under:-

The technical and commercial bids should be submitted on your own letterhead in separate Sealed envelopes. **Your technical bid should be submitted in one of the sealed Covers super scribed "Automatic Grinding and Polishing Machine" due to open On 23-11-20 the other sealed envelope should contain your commercial bid and Should be super scribed "Commercial offer for Automatic Grinding and Polishing Machine "Both these sealed envelopes should be submitted in a third sealed cover Super scribed "Automatic Grinding and Polishing Machine Tender "due to open on.**

The undermentioned documents/details MUST be submitted with your technical offer

- a) Demand Draft towards Earnest money
- b) Details of training and after-sales-service facilities available.
- c) Details of warranty (elaborative as per term No. '3').
- d) Details of users and copies of the user certificates of the proposed model/make of **"(Automatic Grinding and Polishing Machine)**
- e) **Details of para-wise/item wise compliance statement and relevant technical Literature. (offers without these two documents is liable to be rejected)**

5. For indigineous supply, rates **MUST** be for delivery on F.O.R WIHG . Dehra Dun basis. Only GST@ 5%, as applicable, will be paid extra by us (Against Certificate issued by the head of the institution). You may take note of Govt Notification No 47/2017 integrated Tax (rate) dated 14th November , 2017 .

After satisfactory Receipt, installation & acceptance of supply.

6. Being a Research & Development Institution, we are exempted from payment of excise duty And are entitled for payment of basic custom duty on concessional rates. Therefore, Indian Suppliers are advised to quote their rates accordingly.

7. 100% payment to overseas suppliers will be made by us through wire/Telegraphic Transfer. However, 80% payment will be released on receipt of consignment and the balance 20% Payment will be released after satisfactory installation/commissioning and acceptance of Supply.

8. Commercial offer from overseas manufacturers/suppliers **MUST** be submitted on the following lines and must be for supply on f.o.b. basis:


- (a) Ex-works cost.
- (b) (-) Less Indian Agent's Commission, if any, payable in Indian currency after satisfactory Installation and acceptance of supply.

(c) Net ex-works cost.

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- (d) f.o.b. charges up to international airport of dispatch in supplier's countries
(e) Net f.o.b. cost
9. Installation of the equipment will be done at Wadia Institute of Himalayan Geology, Dehradun. In case Operational training is required training charges (if any) should be mentioned separately in the offer, failing which the offered rates will be treated as inclusive of training charges. Installation and training clauses MUST be clearly mentioned in your offer (both in technical and commercial bids).
10. Delivery period required by you MUST be clearly mentioned in your offer.
11. Your offer MUST be valid for a minimum period of **one hundred twenty days** from the date of opening of technical bids and validity period MUST be mentioned in your offer. Air-freight charges on imported consignment will be paid by us in India in Indian currency. Insurance of the imported consignment will also be arranged by us.
12. Your offer MUST reach us by 13.00 hrs. On **30-12--2020** in their own interest, the tenderers must ensure that their tender reaches us in time. Tender will be opened at 15.00 hrs. On the same day. Late tenders or delayed tenders will not be considered. In case the due date happens to be a closed day because of any of the reasons, tenders will be opened at 3 p.m. the next working day.
13. In case Indian Agents submit offer on behalf of their overseas principals, proper Authorization Certificate from the principals on their (Principals) letterhead MUST be Submitted in original with the technical bid, **failing which the offer will not be considered.**
14. **Earnest Money** :- The bid should be accompanied by FDR /Bank Guarantee towards earnest money for an amount of Rs44000 (Rupees forty four thousand only) **or its equivalent foreign currency MUST be submitted with the Technical bid** in the shape **FDR/Bank Guarantee in the name of the Director, Wadia Institute of Himalayan Geology, Dehra Dun (India)**, failing which the offer will not be considered. The Bank Guarantee shall remain in force up to and including forty five(45)days after the bid validity.
15. Firms seeking exemption for EMD/for being registered with MSME /NSIC/any other Govt body must enclose the valid certificate stating that exemption is towards submission of EMD of a particular article. In the absence of such certificate Firms will be required to submit EMD in the form of tools mentioned above. Therefore, it is suggested that willing firms should submit EMD in the form of FDR/ DD /BG to avoid any complications.
16. Security Deposit: - Before placement of necessary Purchase Order, the successful tenderer Will have to submit security deposit @3%of order value in the shape of a Fixed Deposit Receipt/Bank Guarantee that shall be valid till completion of warranty period.

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17. Risk Purchase Clause: - If the supplier fails to supply the goods in correct quality and quantity within the stipulated delivery period, liquidated damages @1% per week for a maximum period of ten weeks will be deducted from the balance payment of the supplier. If the ordered materials are not supplied even after the delay of said period of ten weeks, termination/cancellation of the order will be considered and in such a situation, the purchaser will have the right to forfeit the security deposit of the tenderer and procure the material(s) or services from elsewhere upon such terms and in such manner as it deems appropriate and the supplier shall be liable to pay the purchaser for any excess costs for such similar goods or services.
18. Résolution of Disputes: All désagréments, disputes, différence that May arise Between The Wadia Institute of Himalayan Géology and your firm/agency which cannot be resolved through mutuel négociations shall be referred to an Arbitrator appointed in Accordance with the provisions of relevant Indian or International Law as the case may be. The venue of the proceedings and arbitration shall be Dehradun, INDIA.
19. Amendement(s) in the tender documents required if any, will be made availabel in our Web site and accordingly, the prospective bidders are required to keep themseleves updated till four days of tender opening.
20. The Director, Wadia Institute of Himalayan Geology, Dehra Dun (India) reserves the right To reject any or all tenders without assigning reasons thereof.

Yours faithfully I

(MK Biswas)
Store & Purchase Officer , for Director

Specifications of Automatic Grinding & Polishing Machine

- 1) The overall system should consist of followings:
(A) Grinding/polishing disc (B) Head for Specimen Mover (C) Dosing system
- 2) Only one power & one water connection must be sufficient to supply the whole system.
- 3) Tabletop design with corrosion-resistant Body material.

(A) Grinding/Polishing Disc:

- 1) Disc Diameter: ~ 300 mm.
- 2) Grinding/Polishing machine should have Magnetic base disc with cone. The magnetic disc ensures neither edge rounding nor smearing and should be provided inbuilt spinning function & rubber storage pad.
- 3) Grinding & polishing machine should provide variable speed feasibility of approx. min. 50 to max. 500 rpm. Speed should be kept constant, independent of Load.
- 4) Rotational direction of the disc should be anti-clockwise direction only.
- 5) Motor Power capacity should be at least 750 W.
- 6) Polishing area should illuminate by LED light & placed underneath of Head.
- 7) The speed of disc should have feasibility to increase or decrease the speed using knob.
- 8) Tap water with solenoid control valve with knob should be provided.
- 9) The approximate dimensions should be at most 550 mm X 800 mm x 350 mm (Width X Depth X Height) and should weigh at most 50 kg for its table top model.
- 10) As a safety the approximate noise level should be of max 60 dB (A) at idle running at distance of 1m from the machine.

(B) Specimen Mover:

- 1) Suitable for single mounted specimen (~25 mm diameter) as well as sample mounted on glass slide.
- 2) Specimen Mover plates, which can accommodate at least 4 specimen holder of ~60 mm diameter at one time should be quoted. This specimen holder should be capable for holding the standard glass slides of ~27x46 mm so that at least four mounts can be polished simultaneously at one time. Separate specimen mover plate for polishing of ~25 mm diameter sample specimen must also be provided. Thus, there must also be a provision for the polishing of ~25 mm diameter specimen (4 numbers at one time).
- 3) Force on specimen – It should be possible to apply force between minimum 2.5 N to maximum ~20 N with manual adjustments in steps of 2.5 N. The force of on the specimen should essentially be <5N achievable for the smooth polishing of mineral grain and to avoid deeper scratches on grain/or escape of grains from mount. The low force is essential for polishing of mineral grains for geochronology and Thermochronology.
- 4) There should be facility to apply force individually on each sample holder.

- 5) Single phase power supply directly from polishing unit should be given.
- 6) Speed – 3/4 rpm at 50/60 Hz.
- 7) Motor Power-15 W.
- 8) Dimensions should be suitable as per Grinding /polishing disc.

(C) Dosing Module:

Equipment should be equipped with manually controlled dosing unit for grinding polishing unit for dosing of different grade size diamond suspension, lubricant and all-in-one products, suspensions. Dosing level should be controlled via rotating knob. Provision for extra nozzle for dosing should be provided as well as table stand for Lubricant (one) and diamond suspensions (three) i.e. for three various sizes. Four dosing unit bottles should be provided for diamond suspension of various size and lubricant oil along with stand.

(D) Accessories & Consumables:

1. Adapter for use for self-adhesive consumables on the magnetic-disc System (6 pcs should be quoted).
2. Silicon Carbide grinding foil of FEPA grit size 220, 320, 500, 800, 1200, 2000 plain back for wet grinding of materials; Each 200 nos. should be quoted.
3. Short synthetic nap cloth for magnetic fixation on MD-Disc should be quoted. At least 150 nos.
4. Polycrystalline diamond suspension of diamond sizes $1\mu\text{m}$ & $\frac{1}{4}\mu\text{m}$; each 10 litre should be quoted.
5. Alcohol based Cooling & lubricating liquid for fine grinding & diamond polishing should be quoted. 5 cans (5 l) should be quoted.
6. Epoxy cold mounting system (two numbers) comprising of 1 litre resin, 130ml hardener and required consumables should be quoted along with.
7. Acrylic cold mounting system comprising of 700 gram powder, 500 ml liquid and required consumables should be quoted along with.
8. One additional set of specimen slide holder (i.e. for holding four sample slides at one time).
9. Standard Slides with ground edges. ~1.2 -1.5 mm thick, ~27 x 46 mm. Four packet should be quoted (each with 100 pcs).
10. Polishing cloth (Porous neoprene) for final polishing of all materials. 200 pcs should be quoted.
11. Non-drying colloidal silica suspension ($0.04\mu\text{m}$) for final polishing ready to use should be quoted (1 litre).
12. Storage cabinet for 9 magnetic disc (MD) surfaces should be quoted (1 number).

(E) General Requirements:

- 1) CE Certified: The equipment should be CE Certified for operational safety.
- 2) Power Supply: 200-240V / 50-60Hz – Single Phase.
- 3) Temperature: 5 – 40 °C
- 4) Humidity: 0 – 95% RH
- 5) Warranty: 3 Years



Technical Compliance Statement

S. No.	Technical Specifications Required	Compliance (Yes/No)	Remarks
1	The overall system should consist of followings: (A) Grinding/polishing disc (B) Head for Specimen Mover (C) Dosing system		
2	Only one power & one water connection must be sufficient to supply the whole system.		
3	Tabletop design with corrosion-resistant Body material. GRINDING/POLISHING DISC:		
1	Disc Diameter should be ~ 300 mm.		
2	Grinding/Polishing machine should have Magnetic base disc with cone. The magnetic disc ensures neither edge rounding nor smearing and should be provided inbuilt spinning function & rubber storage pad.		
3	Grinding & polishing machine should provide variable speed feasibility of approx. min. 50 to max. 500 rpm. Speed should be kept constant, independent of load.		
4	Rotational direction of the disc should be anti-clockwise direction only.		
5	Motor Power capacity should be at least 750 W at least.		
6	Polishing area should illuminate by LED light & placed underneath of Head.		
7	The speed of disc should have feasibility to increase or decrease the speed using knob.		
8	Tap water with solenoid control valve with knob should be provided.		
9	The approximate dimensions should be at most 550 mm X 800 mm x 350 mm (Width X Depth X Height) and should weigh at most 50 kg for its table top model.		

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Technical Compliance Statement

10	As a safety the approximate noise level should be of max 60 dB (A) at idle running at distance of 1m from the machine.		
	SPECIMEN MOVER:		
1	Suitable for single mounted specimen (~25 mm diameter) as well as sample mounted on glass slide.		
2	Specimen Mover plates, which can accommodate at least 4 specimen holder of ~60 mm diameter at one time should be quoted. This specimen holder should be capable for holding the standard glass slides of ~27x46 mm so that at least four mounts can be polished simultaneously at one time. Separate specimen mover plate for polishing of ~25 mm diameter sample specimen must also be provided. Thus, there must also be a provision for the polishing of ~25 mm diameter specimen (4 numbers at one time).		
3	Force on specimen – It should be possible to apply force between minimum 2.5 N to maximum ~20 N with manual adjustments in steps of 2.5 N. The force of on the specimen should essentially be <5N achievable for the smooth polishing of mineral grain and to avoid deeper scratches on grain/or escape of grains from mount.		
4	There should be facility to apply force individually on each sample holder.		
5	Single phase power supply directly from polishing unit should be given.		
6	Speed – 3/4 rpm at 50/60 Hz.		
7	Motor Power-15 W.		
8	Dimensions should be suitable as per Grinding /polishing disc.		
	DOSING MODULE:		

Technical Compliance Statement

1	Equipment should be equipped with manually controlled dosing unit for grinding polishing unit for dosing of different grade size diamond suspension, lubricant and all-in-one products, suspensions.		
2	Dosing level should be controlled via rotating knob.		
3	Provision for extra nozzle for dosing should be provided as well as table stand for Lubricant (one) and diamond suspensions (three) i.e. for three various sizes.		
4	Four dosing unit bottles should be provided for diamond suspension of various size and lubricant oil along with stand.		
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3	Short synthetic nap cloth for magnetic fixation on MD-Disc should be quoted. At least 150 nos.		
4	Polycrystalline diamond suspension of diamond sizes 1µm & ¼ µm; each 10 litre should be quoted.		
5	Alcohol based Cooling & lubricating liquid for fine grinding & diamond polishing should be quoted. 5 cans (5 l) should be quoted.		
6	Epoxy cold mounting system (two numbers) comprising of 1 litre resin, ~130ml hardener and required consumables should be quoted along with.		
7	Acrylic cold mounting system comprising of ~700 gram powder, ~500 ml liquid and required consumables should be quoted along with.		

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Technical Compliance Statement

8	One additional set of specimen slide holder (i.e. for holding four sample slides at one time).		
9	Standard Slides with ground edges. ~1.2 -1.5 mm thick, ~27 x 46 mm. Four packet should be quoted (each with 100 pcs).		
10	Polishing cloth (Porous neoprene) for final polishing of all materials. 200 pcs should be quoted.		
11	Non-drying colloidal silica suspension (0.04 µm) for final polishing ready to use should be quoted (1 litre).		
12	Storage cabinet for 9 magnetic disc (MD) surfaces should be quoted (1 number).		
	GENERAL REQUIREMENTS:		
1.	CE Certified: The equipment should be CE Certified for operational safety.		
2.	Power Supply: 200-240V / 50-60Hz – Single Phase.		
3.	Temperature: 5 – 40 °C		
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5.	Warranty: 3 Years		

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Technical Compliance Statement

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