



Government of Goa
Directorate of Mines Geology
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01/17/2024/Adm/Mines/ 1677

Date: 21/08/2025

To,
✓ The Director,
National Mineral Exploration Trust(NMET),
Ministry of Mines
Room No. 325 & 326, Wing-F, Udyog Bhawan,
Rafi Ahmed Kidwai Marg,
Rajpath Area, Central Secretariat
New Delhi-110011

Subject: Proposal for financial Assistance for setting up a Mineral Ore Grade
Analysis Laboratory under NMET Funding

Sir/Madam,

The Directorate of Mines & Geology, Government of Goa, proposes to establish a state-of-the-art Mineral Ore Grade Analysis Laboratory in Goa to strengthen the mineral governance framework and enhance the scientific analysis of mineral ore samples. The laboratory is aimed at ensuring quality control, promoting transparency in mineral valuation, and supporting regulatory functions of the Department.

In line with the objectives of the National Mineral Exploration Trust (NMET) under Rule 6 of the NMET Rules, 2015, we seek financial assistance for setting up the proposed laboratory infrastructure. The initiative is expected to directly contribute to the development of exploration-related infrastructure and capacity building, as envisaged under the NMET framework.

Accordingly, a tentative list of equipment and instruments proposed for procurement, along with estimated costs, is prepared in consultation with Goa College of Engineering, which is as follows:-

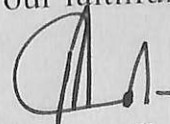
Sr. no	Name	of	the	Cost/Unit	No of Unit	Total Price (
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4	Magnetic Stirrer with hot	15,000	2	30000+GST
5	Spectrophotometers	3,50,000	1	350000+GST
6	PH meter	60,000	2	120000+GST
7	Laboratory Glass ware & Chemicals	1,70,000	1	170000+GST
8	Rock Density scale/Minerals Density Tester/Stone Density Gauge	1,30,000	1	13000+GST
9	Hot Plate	30,000	1	3000+GST
10	Double distillation plant	90,000	1	90000+GST
11	Bunsen Burner Set	20,000	1	20000+GST
B. XRF Analyser				
12	Press Pallet	3,21,00,000	1	3,21,00,000
13	ED-XRF Analyzer (200-400W			
14	Vibrating cup mill			
15	A/C,crude,p10 cylinder, binder, flux UPS Backup			
Total		3,30,65,000/-		

We kindly request you to examine the proposal and inform us regarding the eligibility of each item for NMET funding, along with the extent of assistance that may be admissible under NMET guidelines. We shall be pleased to submit a Detailed Project Report (DPR) and any other documentation required for appraisal.

Your support in this regard will go a long way in strengthening the Department's technical capabilities and enhancing mineral sector governance in the State.

Your faithfully



(Narayan Gad)

Director

Directorate of Mines & Geology

Copy to :

1) P.A to C.S

2) Chief Minister

Ministry of Mines

National Mineral Exploration and Development Trust

Operational Requirements for Procurement

Following details are to be submitted mandatorily by the agencies along with the procurement proposals.

- 1. What is the justification for procuring this instrument?**
 - a. The results are very fast and accurate and can be handled in large numbers
 - b. It will facilitate mining industries and associated departments to fulfill their requirements with regard to mineral quality/ grade checks during and after production
 - c. Facilitate/ Support Prospecting & Exploration of major mineral, minor mineral, trace mineral and critical mineral in mines, mine tailing, mine overburden dump
 - d. Research work in trace mineral and critical mineral, to study the low & lean grade and complex ores, recycling and recovery
 - e. Royalty point of view government organization, public sector and private sector might need their reports to be verified from an authorized Government agency / Department as no such laboratories are available in the vicinity.
 - f. Establishing a Centre of Excellence for mineral testing as part of the National Critical Mineral Mission (NCMM) 2025 will help in accurate identification and quantification of minerals, enabling informed decision-making regarding exploration, extraction, processing, and utilization, as well in identifying more efficient ways for discovering next generation critical mineral deposits
- 2. How will this instrument contribute to enhancing mineral exploration activities in the State?**
 - a. It will provide accurate values of the elements in the core samples obtained from exploration work
- 3. In what ways will this instrument play a critical role in advancing mineral exploration over the next five years?**
 - a. Identification of the critical, low grade and rare earth minerals
- 4. What specific benefits will the procurement of this instrument bring to the State and to the country as a whole?**
 - a. Identification of reserves and auctioning at the right price
- 5. Whether any older version of proposed instrument is presently available with the agency? If so, how does this new instrument compare with the instrument/ technologies currently being used?**
 - a. No

- 6. What infrastructure and manpower are required to operate this instrument effectively? Does the agency have adequately skilled personnel to handle its operation, and if not, what measures will be taken to ensure its proper functioning?**
 - a. Laboratory setup, partitions, civil & electrical work, Manager (Incharge), Chemist and supporting staff. Chemist will be appointed. The manufacturer of the XRF Analyser shall provide training for a period of 7 days to Manager/ Incharge and Chemist in operation of the equipment.
- 7. Will this instrument be made available for use by other States/Agencies/Institutions under collaborative arrangements?**
 - a. Yes, subject to approval from State Government/NMEDT.
- 8. Are there any ongoing/planned projects where this instrument can be immediately deployed?**
 - a. Yes. For analysing the ore grade of the samples taken on site and before shipment as the mineral blocks are operational in Goa and also for data required by DMG for auctioning purpose.
- 9. How will data generated from this instrument be integrated with national databases or exploration programmes?**
 - a. The data can be updated in National Geoscience Data Repository (NGDR) as per the guidelines of NMEDT.
- 10. How will the concerned agency (Central agencies/State DGMs/DMGs) ensure running & operational cost, proper maintenance, including AMC/CAMC and regular servicing, of the instrument?**
 - a. Operational cost shall be done through the amount generated by consultancy and AMC for a period of 3 years is part of the purchase cost.
