

SUSTAINABLE & CIRCULAR PRODUCTION OF MINERAL CRITICAL RAW MATERIALS /SCIMIN -CRM/

Mining and Metallurgy Institute Bor – MMI Bor

Number: 1398/26

Date: June 16, 2026

Location: Bor, Republic of Serbia

BIDDING INVITATION FOR THE PROCUREMENT OF EQUIPMENT FOR SCIENTIFIC AND TECHNOLOGICAL TESTING No. 1398/26

- 1. Name, address and website of the ordering party (Contracting Authority) :** Mining and Metallurgy Institute Bor, Bor, Albert Ajnštajn 1, website: www.irmbor.co.rs
- 2. Place and date of announcement of the Call:** Bor, June 16, 2026 on the website of the Mining and Metallurgy Institute Bor;
- 3. Type of Contracting Authority:** Scientific and Research Institution;
- 4. Subject of Procurement:** Equipment for the SCI MIN-CRM Project.

Purpose: The Mining and Metallurgy Institute Bor participates in the Horizon Europe Project “Sustainable & Circular Production of MINeral Critical Raw Materials (SCIMIN-CRM). For the purposes of project implementation and the fulfilment of obligations and tasks of MMI Bor as a consortium member, technological tests will be carried out separation of bauxite ore from iron minerals (hematite), for this purpose it is necessary to provide a high-voltage electrostatic separator which is stipulated in the Grant Agreement.

4.1 Technical specifications of electrostatic separation:

The device should be designed in such a way, that it is easy to carry out laboratory tests with the possibility of precise setting of operating parameters with simple handling, as compact bench top configuration which includes High-voltage roll separator, Electrostatic Plate System and Electrostatic Screen Separator.

The laboratory electrostatic separator shall include the following components and characteristics:

- Polished steel rotor, dimensions $\text{Ø } 350 \text{ mm} \times \text{width } 150 \text{ mm}$;
- Roller rotational speed controlled by a Variable Frequency Controller (VFC), with a typical speed range of 180–270 rpm;
- One set of screens and one set of plates, interchangeable with the rotor;
- One DC electrode;
- Mechanical cleaning brush for removing residual particles;
- Complete material feeding system including hopper and vibratory feeder;
- Carbon steel housing for the rotor/plate/screen assembly equipped with:

- Safety door;
 - Electrical safety interlocks;
 - Adjustable splitters for directing conductive, non-conductive, and intermediate fractions to the appropriate separator outlets;
 - Three collection containers for separated products;
- Variable-speed drive system;
 - Control panel, equipped:
 - Ampermetar.
 - Voltmetar.
 - Voltage regulator with a range of 0–40 kV DC, negative polarity.

Required basic system components:

- High-voltage power supply up to 30 kV (DC, negative polarity), integrated into the control cabinet.
- Vibratory feeder equipped with resistive heaters in the hopper, enabling controlled material dosing together with thermal treatment (drying and stabilization) of the feed material.
- Infrared heating lamp for drying and maintaining low sample moisture content.
- Set of interchangeable components for various types of electrostatic separation.

BASIC COMPONENTS OF THE SEPARATOR

1. Feed hopper
2. Vibratory feeder
3. Roller
4. Ionizing electrode
5. Splitter – conductor
6. Splitter– nonconductor
7. Collecting pan
8. HV AC wiper
9. Brush
10. Heating element

5. **Delivery Location:** Mining and Metallurgy Institute Bor, Republic of Serbia

6. **Award Criteria:** Lowest bid price and equipment quality

The lowest bid price shall be based on CIP Bor delivery terms, including:

- Equipment price; Transportation to Bor; Loading/unloading at sea and air ports; Cargo insurance.

7. **Method of obtaining the Invitation with conditions, i.e. the internet address where the Invitation is available:** The Invitation and accompanying requirements may be downloaded electronically from the Contracting Authority's website: www.irmbor.co.rs
<https://irmbor.co.rs/en/sustainable-circular-production-of-mineral-critical-raw-materials1/>

8. Mandatory Elements of the Bid:

- **Bidder Identification Information** / Extract from the Commercial Register or Other Official Register of the Country in which the Bidder Has Its Registered Office
- **The price** given for the complete specification of the equipment at the CIP Bor parity.
- **Delivery** deadline for the equipment subject to procurement (item 4 of this invitation): maximum 24 working weeks after order confirmation and design approval, subject to confirmation at time of order.
- **Payment terms:**
 - 30% advance payment upon contract signing
 - 70% upon delivery of the equipment and submission of the Supplier's invoice.
- **Bid validity period: 30 days.**

9. Submission of Bids and Deadline:

Bidders shall submit their bids electronically, including all required elements, to the email address: offers@irmbor.co.rs

The final deadline for submitting the offer is June 30, 2026, by 12:00 noon.

10. Language of the Bid: English or Serbian

11. Opening of bids - place and time: Mining and Metallurgy Institute Bor, Albert Einstein 1, June 30, 2026, at 1:00 PM

12. Decision-Making Deadline: Within 5 days from the date of bid opening.

13. Notice to Bidders:

- The Contracting Authority is publishing an Invitation to submit offers for the purposes of implementing SCI MIN-CRM Project within the European Union program HORIZON EUROPE.
- The Contracting Authority reserves the right to cancel the announced procurement at any time (before the opening of offers, during the evaluation process, or during the decision-making phase), and up until the decision on the selection of the most favorable offer, without providing any specific explanation..
- In the case of a single Supplier, the Contracting Authority reserves the right to cancel the procurement process and/or to evaluate the Offer and make a Contract award decision if the Offer is submitted on time, is not rejected due to material deficiencies, is appropriate, and does not limit or condition the rights of the Contracting Authority or the obligations of the Supplier under the laws of the Republic of Serbia.
- The costs of preparing and submitting the Offer shall be borne by the Supplier.
- The regulation of the relationship between the Ordering Party and the selected Supplier will be specified in the Contract.

Chairman of the Equipment Procurement Commission



Sladjan Milenovic
Sladjan Milenovic, B.Sc. Econ