

Invitation of National Expression of Interest

भारत सरकार टकसाल/INDIA GOVERNMENT MINT

(भारत प्रतिभूति मुद्रण तथा मुद्रा निर्माण निगम लिमिटेड की इकाई)

(A unit of Security Printing and Minting Corporation of India Limited)

(भारत सरकार की पूर्ण स्वामित्वाधीन)

wholly owned by Government of India

शहीद भगत सिंह मार्ग, फोर्ट, मुंबई - 400001

SBS Marg, Fort, Mumbai – 400001

Tel : 022 22703184/85

Ext.: 110/131/136

Email : purchase.igmm@spmcil.com

Fax: 022 22661450

Website : www.spmcil.com

Date of issue : 01.12.2023

1. Name of the Organization : India Government Mint, Mumbai
(A unit of Security Printing and Minting Corporation of India Limited)
2. Type of the Organization : Wholly owned by the Government of India
3. EOI Reference No. : XIX-2/776/P&S/2023 dated 01.12.2023
4. EOI Title : Expression of Interest for procurement of ED – XRF Spectrometer
5. Category : Non Security
6. Sub-Category : Capital Item
7. Date of Announcement : **01.12.2023**
8. Last date of submission : **02.01.2024 at 2.30 pm.**
9. Broad Description of work : Procurement of ED – XRF Spectrometer

STATEMENT OF REQUIREMENTS (SOR):

To procure ED-XRF Spectrometer for preliminary assay of various sources of metals and powder forms, to detect deleterious elements in Gold, matrix matching in Gold Fire Assay method and silver analysis and to measure coating thickness of plated samples. A Generic Requirement of ED-XRF Machine is attached for reference as **ANNEXURE - I.**

10. Pre-Qualification Criteria

- a) This EOI is only for India Manufacturers/bidders/suppliers, for this purpose, a supplier or bidder shall be considered to be from a country if :
 - (i) The entity is incorporated in that country, or
 - (ii) a majority of its shareholding or effective control of the entity is exercised from that country or
 - (iii) As per the Public Procurement (Preference to Make in India) order 2017 (PPP-MII) and its subsequent amendments/revisions.
 - b) Ministry of Finance, Deptt. of Expenditure, Public Procurement Division's Order (Public Procurement 1,2 and 3) F.No.6/18/2019-PPD dated 23rd/24th July 2020 (or any amendments thereof) regarding eligibility of bidders from specified regions shall be applicable to all procurements. Any bidder from a country which shares a land border with India (excluding countries as listed in the website of Ministry of External Affairs, to which the Govt. of India has extended lines of credit or in which the Govt. of India is engaged in development projects) will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the registration committee constituted by the Department for promotion of Industrial and Internal Trade (DPIIT).
 - c) The intending bidders shall submit all technical details, capabilities, and experience for supply of ED – XRF Spectrometer.
 - d) The bidders should give a declaration that they have not been blacklisted or debarred for dealing by Government of India or any Government/PSU/Reputed organization in the past.
 - e) The documents in support of Expression of Interest need to be submitted duly signed by authorized representative of the company.
 - f) The interested bidders should also submit along with the Expression of Interest a list of parties to whom they supplied similar ED – XRF Machine with details and performance report from their clients.
 - g) The interested bidders shall also submit copies of Audit Financial Statement for the last five years, 2019-2020, 2020-2021 2021-2022 and 2022-2023 .
11. The interested bidder should submit the Budgetary Quotation for the item mentioned in 9.
12. The bidder should also confirm specifically that :
- a) Applicant is competent and legally authorized to submit and/or to enter into legally binding contract.
 - b) The details supply of ED – XRF Machine by the firms during last five years i.e. 01st ending of March 31, 2023.
 - c) The firm should confirm their annual installed capacity for procurement of ED – XRF Machine

d) Applicant will absolve the purchaser against any infringement of patent rights and other contract provisions.

13. Bid Documents (if any): Not applicable.

14. EOI should be submitted to: The Chief General Manager,
India Government Mint,
Shahid Bhagat Singh Road, Fort,
Mumbai - 400001.
Email: purchase.igmm@spmcil.com
Phone: 022-22703184/85 Ext.110/136/131
Fax No.022-22661450

15. Delay due to postal/courier etc, will not be entertained. EOI tender received after the due date and time will rejected.

हस्ता/-

(रवि प्रकाश यादव)
मुख्य क्रय एवं भंडार अधिकारी
कृते मुख्य महाप्रबंधक

ANNEXURE - I

Generic specifications of ED-XRF machine

Energy Dispersive X-ray Fluorescence Spectrometer High Resolution Measuring system with suitable software and Silicon Drift Detector (SDD)

It should execute fast, accurate and non-destructive elemental analysis of metals from Al (13) to Ur (92).

Model type: Bench Top Model

Materials to be Analyzed: Jewelry alloys, Trace element analysis, Liquid analysis and plating thickness measurement.

Technical specifications: Main specifications of the instrument to be Micro-focus tungsten/molybdenum/suitable Anode tube, air/ oil cooled thermally stabilized for extended life and stability. Minimum Six selectable primary filters for optimization of application. Minimum Standard four programmable motorized collimator with sizes of d=0.2, 0.6, 1.0 and 2.0 mm. or better.

Modern Silicon Drift Detector (SDD) detector; Peltier cooled; / Fast SDD detector peltier cooled Ultrafast digital pulse processor (DPP) or equivalent.

Qualitative and Quantitative analysis of various elements in an alloy matrix.

Analysis range: Atomic Number Z=13 (Al) to Z=92 (U) which includes Gold, Silver, Copper, Zinc, Lead, Indium, Nickel, Palladium, Cadmium including all Platinum group metals, osmium, rhodium, iridium Detection range: 0 to 99.99%

Resolution: <140 eV FWHM at Mn K-alpha or better

Measuring Distance - 0 - 25 mm or better able to measure composition of inner side of curved items like Bangles

High resolution CCD color camera for optical monitoring with perpendicular viewing of the measuring spot, easy optical focusing on the measurement spot with suitable mechanism. Fixed specimen support with integrated video-microscope, cross hair, beam indicator, LED illumination and magnification for quick and easy sample placement; Loaded with user friendly operating software which is all inclusive-complete, easy to use . Advanced fundamental parameter method for standard free measurement for solid metals, coating systems as well as liquid samples. Calibration with certified standards ensuring highest accuracy and traceability of measurement results. Accessories supplied along with instrument – pure element reference plate, tools, cable set and all other essential and optimal accessories with minimum inclusions: Standards to be provided for cross check /calibration, appropriate plating thickness standards to be provided.

Measurement Standard: Measurement method to be meeting requirements of DIN ISO 3497 and ASTM B 568.

System to be supplied with a PC and a printer with minimum configuration of Latest generation, branded desktop computer system to be supplied with the quoted EDXRF system Hard disk drive (1 TB), RAM: 8GM, Intel core i7 (4th generation) processor.

Operating system: Microsoft® Windows 10 Pro (64-bit)

Monitor: 24" Widescreen Flat Panel Display, USB keyboard and mouse.

Online UPS: Branded 2 KV online UPS for providing uninterrupted power supply to the instrument with backup of minimum 2 hrs. Isolation.

Transformer: Branded isolation transformer (2KV)

Radiation Certificate: It shall have approval for radiation safety by highest national or international approved authority.

Exposure protection: Instrument should have appropriate radiation exposure protection features.

AERB Approval: Instrument should have approval from Atomic Energy Regulatory Board (AERB) to use it in India.

Vendor has to provide at least 5 references in India/LBMA refineries with the quoted system supplied.
User Manual: Vendor has to provide 1 hard and 1 softcopy of user manual, 3 years AMC & Two years warranty.