

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

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Tel : 022 22703184/85

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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-2/777/P&S/2023 dated 01.12.2023
4. EOI Title : Expression of Interest for procurement of CNC Engraving Machine and Scanning Machine.
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 CNC Engraving Machine and Scanning Machine.

STATEMENT OF REQUIREMENTS (SOR):

To procure CNC Engraving Machine and scanning machine. A Generic Requirement of CNC Engraving Machine and scanning 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 CNC Engraving Machine and scanning machine.
 - 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 CNC Engraving Machine and scanning 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 CNC Engraving Machine and scanning 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 CNC Engraving Machine and scanning 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 be rejected.

हस्ता/-

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

ANNEXURE -I

Supply, Installation, successful Commissioning, Testing, Stabilization and handing over of 4-Axis CNC Milling and Engraving Machine:

1. The CNC milling and engraving machine manufactured with state of the art standards, which can be used for exact reproducibility of embossing dies on die steel as per the designs.
2. Machine needs to have high accuracy, high speed and high resolution.
3. It shall have constant milling track speed, independent of milling direction,
4. Efficient control software to simplify input of engraving and milling tracks.
5. A machine shall be complete with required operating software, machine software, hardware, fixtures, controls and auxiliary equipments.
6. 4-Axis machine e.g. X, Y and Z axis mounted on machine structure and A- axis for engraving on cylindrical objects (concave or convex surface).
7. The working range : 400 x 400 x 150 mm
8. Axis driven by high resolution servo motors
9. Drive resolution better than 0.1micro meter
10. Positional accuracy minimum 5micron
11. Repeatability: 2micron minimum
12. Traversing speed feed: 9 m/min minimum
13. Encoder analysis in all axis.
14. Dimensions of embossing dies to be engraved:
 - a) Maximum diameter: 90mm
 - b) Block height: 55mm
 - c) Relief height: 0.02mm to 0.8mm
15. The provision of auto tool changer
16. 3D Output and handling software under Microsoft Windows or other user friendly operating system.
17. Secured interface for selection data from CAD/ CAM Software.
18. Machine shall be able to load all type of CAD files.
19. A latest CAD and 3D designing software 64-bits for allowing flexibility in different machining and engraving task.
20. Spindle revolutions and feed rate programmable according to tool selection.
21. Spindle should be universal type high frequency spindle, low maintenance and programmed for automatic tool change with collect.
22. Spindle rotation : Minimum : 5000rpm to Maximum : 60000rpm

A separate digitizing or scanning machine must be available with this engraving and milling machine.

23. Brief Technical specification of digitizing machine:
 - a) A separate scanning machine shall be suitable for exact digitisation of object (normally negatives of sculptures 3D models) under scanning.
 - b) Scanning area: approximately 400mm X 400mm
 - c) It shall have handy functions for selecting relief points.
 - d) Recommended scanning resolution: from 10micro meter or better
 - e) Provision for installing different range lenses for scanning the data
 - f) The digitisation summery shall be in Relief user friendly wizards and dialogues. It shall be able to verify Z positions of digitisation dialogues.

- g) Scanner shall be able to do digitisation of different shapes like rectangular, circular or polygon.
- h) A facility to enter digitisation area through keyboard or by “Teach In” with Laser. After digitisation the surface data shall be saved automatically.
- i) Allow handling data in machine required format for further processing.
- j) Facility to save and reload all parameters of digitisation.
- k) It shall automatically detect actual measuring range (focus position of sensor).
- l) It shall be complete with required operating software, machine software, hardware, fixtures, controls and auxiliary equipment’s.
- m) It shall have suitable standalone industrial PC with latest hardware and interface required all software’s for Operators final touch to scanned soft images on digitisation machine before sending to milling /engraving/lettering jobs.