

प्रतिभूति कागज कारखाना, नर्मदापुरम-461005 (म.प्र.)

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

भारत सरकार के पूर्ण स्वामित्वाधीन

(मिनिरातल श्रेणी-1 सीपीएसई एवं आई.एस.ओ 9001:2015, 14001:2015, 45001:2018, 50001:2018 एवं आई.ई.सी.17025:2017 प्रमाणित

SECURITY PAPER MILL, NARMADAPURAM - 461005 (MP)

(A Unit of Security Printing & Minting Corporation of India Limited)

Wholly owned by Government of India

Miniratna Category-I CPSE & ISO 9001:2015, 14001:2015, 45001:2018, 50001:2018 & IEC17025:2017 Certified

CIN:U22213DL2006GOI144763, GSTIN: 23AAJCS6111J3ZE



Tel. No.: 07574-255259, Fax No.07574-255170, E-mail: gm.spm@spmcil.com, Website: <http://spmarmadapuram.spmcil.com>

Notice Inviting Tender

Tender no. – 6000018803/WWS/24-25/514, Dated 17.07.2024

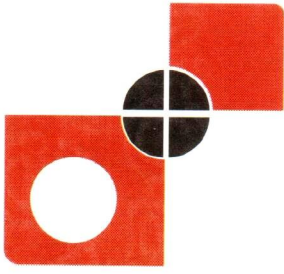
E-tenders are invited from eligible bidders for “Supply, Installation and Commissioning of Milling Type CNC Engraving Machine”. All the details regarding tenders are available at our SPM website <https://www.spmarmadapuram.spmcil.com> and MSTC website <https://www.mstcecommerce.com/eproc/>. In future corrigendum/extension etc., if any, shall be published only on website <https://www.spmarmadapuram.spmcil.com> and <https://www.mstcecommerce.com/eproc/>.

Further event details available on MSTC website (<https://www.mstcecommerce.com/eproc/>) is as below:

Buyer	Category
SECURITY PRINTING & MINTING CORPORATION OF INDIA LTD.	Capital procurements

Event Number	Description Event	Bidding Period
SPMCIL/Security Paper Mill Narmadapuram/Purchase/4/24-25/ET/4 (CNC ENGRAVING MACHINE)	CNC ENGRAVING MACHINE	19.07.2024 06:00:00 PM to 27.08.2024 15:00:00 PM

SD/-
Manager (Material) & CPSO
SPM, Narmadapuram



प्रतिभूति कागज कारखाना, नर्मदापुरम-461005 (म.प्र.)

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Tel. No.: 07574-255259, Fax No.07574-255170, E-mail: gm.spm@spmcil.com, Website: <http://spmarmadapuram.spmcil.com>

Vendor Registration Procedure for Common Portal(V3) e-Procurement

System Requirements:

1. OS Windows 10 and above, browser Internet Explorer 10 and above
2. Digital Signature **Class 3** and above (both signing and encrypting)

STEPS:

1. Please visit <https://www.mstcecommerce.com>
2. Scroll onto **e-Procurement** and click on "**Common Portal**"
3. In the **Vendor Login**, please click on "**Register**"
4. Please fill all the details and follow the onscreen form to get registered.
5. Click on Submit button.
6. After the successful registration, an automated confirmation e-mail is sent to the provided email address.

Post Submission Login using your Digital Signature **Class 3** (both signing and encryption)

For System Settings:

MSTC Help Desk Ph. 033 23400020, 23400021, 23400022

For System Settings Video Tutorial open link: bit.ly/v3mstcvid

Event Catalogue

Select Financial Year: 2024-2025

Search Event: 4

Select Event No.: SPMCIL/Security Paper Mill Narmadapuram/Purchase/4/24-25/ET/4[CNC ENGRAVING MACHINE]

Event Details

Event No: SPMCIL/Security Paper Mill Narmadapuram/Purchase/4/24-25/ET/4[CNC ENGRAVING MACHINE]

Event Status

Traits: Goods

Event Activated

Description of Event: CNC ENGRAVING MACHINE

Activities

Mode:

Type of Tender:

Bid Submission:

Public Opening:

Published on: 19-07-2024

Open Tender / HTM

Open

Lotwise

YES

11:35:10:32

EMD: 1500000.00 (In Rs.)

Document Upload: YES

Activated on: 19-07-2024

11:35:57:49

Estimated Value: 109432486.00

Coverwise Document Upload: YES

Tender Extended on: -

Tender Opened on: -

Price Opened on: -

Event Cancelled on: -

Online Pre Bid Meeting

Bidding Period

Tender Opening Period

Price Bid Opening Date

25.07.2024 - 03:00 PM To 25.07.2024 - 06:00 PM

25.07.2024 - 06:00 PM To 27.08.2024 - 03:00 PM

27.08.2024 - 03:01 PM To 27.08.2025 - 03:01 PM

Prebid Meeting Doc Upload : Yes

List Of Tender Document

Sl. No.	Document Details	Document Type	Action	Verify Signer Certificate
1	24-25-ET-4[CNC ENGRAVING MACHINE]-175568-NIT-1319048-6996018803.pdf © 19/07/2024 11:33:23	NIT	<input type="button" value="Download"/>	<input type="button" value="Verify"/>

Vendor Document Upload Checklist For Technical COVER

Sl. No.	Document Details
1	Kindly submit the documents mentioned in section VII of the tender document and Annexure I part II of TECHNOCOMMERCIAL BID

Vendor Document Upload Checklist For Pre Qualification COVER

Sl. No.	Document Details
1	Kindly submit the documents mentioned in section IX of the tender document and Annexure I part I of PRE QUALIFICATION BID

Vendor Document Upload Checklist For Price COVER

Sl. No. Document Details

1 Kindly quote the price in e tender column and Upload the filled price schedule as per section XI of the tender document

Tender Committee Members

Name	Designation	Office	Department	Email	Mobile No.	Encryption public key expiry date
NEERAJ KUMAR	Manager TO PURCHASE	Security Paper Mill Narmadapuram	Purchase	neeraj.kumar@spmcil.com	9425041926	2025-07-16 00:00:00.0
PUSHPLATA KULHARE	MANAGER FINANCE	Security Paper Mill Narmadapuram	Finance	pushplata.kulhare@spmcil.com	9893226539	2025-07-16 00:00:00.0
DHANRAJ KUMAR PRAJAPATI	MANAGER TO	Security Paper Mill Narmadapuram	Technical	dhanraj.prajapati@spmcil.com	9630560043	2025-07-19 00:00:00.0

Pre-Qualification Terms

TYPE QUALIFICATION BID

Sl.No	Terms	Component
1	Kindly submit the documents mentioned in section IX and annexure-I of the tender documents.	Agree Only

Common Terms

TYPE COMMERCIAL BID

Sl.No	Terms	Component
1	Kindly submit the documents mentioned in section VI and annexure-I of the tender documents.	Agree Only

Lot No : 1

Lot Name	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
CNC Machine	Capital Procurements	Supply, Installation and Commissioning of Milling Type CNC Engraving Machine at SPM, Narmadapuram	1.0 NO	INR		

Lot No: 1 Specific Terms

Price Parameters/ Formula

Variable Name	Name of Parameters	Sub Total Example: a+b	Type of Component	Places of decimal	Lumpsum
	GRAND TOTAL PRICE inclusive of all duly unloading respective of destination	-	Positive Numeric Text Only	2	Yes

Price formula

a (Up to 2 Decimal Place)

Lot No: 2

Lot Name	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
CNC Machine	Capital Procurements	Supply, Installation and Commissioning of 3D CNC Engraving and Milling Machine at IGM, Hyderabad	1.0 NO	INR	-	-

Lot No: 2 Specific Terms

Price Parameters/ Formula

Variable Name	Name of Parameters	Sub Total Example: a+b	Type of Component	Places of decimal	Lumpsum
a	GRAND TOTAL PRICE inclusive of all dully unloading respective of destination	-	Positive Numeric Text Only	2	Yes

Price formula

a (Up to 2 Decimal Place)

Lot No: 3

Lot Name	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
CNC Machine	Capital Procurements	Supply, Installation and Commissioning of CNC Milling Engraving Machine and Scanning Machine at IGM, Mumbai	1.0 NO	INR	-	-

Lot No: 3 Specific Terms

Price Parameters/ Formula

Variable Name	Name of Parameters	Sub Total Example: a+b	Type of Component	Places of decimal	Lumpsum
a	GRAND TOTAL PRICE inclusive of all dully unloading respective of destination	-	Positive Numeric Text Only	2	Yes

Price formula

a (Up to 2 Decimal Place)



**SECURITY PAPER MILL,
NARMADAPURAM - 461005 (M.P), INDIA**
 (A Unit of Security Printing and Minting Corporation of India Limited)
 (Wholly owned by Government of India)
 (Miniratna Category-I CPSE & ISO 9001:2015 & ISO 14001:2015 CERTIFIED)
 Website: <http://spmarmadapuram.spmcil.com>
 E-Mail: gm.spm@spmCIL.com
 CIN: U22213DL2006GOI144763
 Ph.No:91-7574-255259,

GSTIN: 23AAJCS6111J3ZE
 Fax No: 07574-255170

PR Number	PR Date	Indenter	Department
(1) 12004509	12.10.2022	SPMN	SPMN
(2) 12005753	31.05.2024	IGMH	IGMH
(3) 10032214	11.06.2024	IGMM	IGMM

Not Transferable

Security Classification:

**TENDER DOCUMENT FOR: SUPPLY, INSTALLATION AND
COMMISSIONING OF MILLING TYPE CNC ENGRAVING
MACHINE**

Tender No: 6000018803/WWS/24-25/514, Dated: 17.07.2024

This Tender Document Contains 74 Pages.

Tender Documents is issued to:

M/s.....

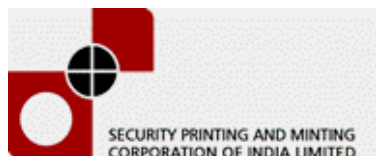
Details of Contact person in SPMCIL regarding this tender:

Name, Designation: Sanjay Kumar Gavaskar (Dy. General Manager (Material))

Address: SPM, Narmadapuram

Phone, Fax, email: 07574-286848/6776

Email: sanjay.gavaskar@spmCIL.com



Section I: Notice Inviting Tender (NIT)

Tender Sl. No. **6000018803/WWS/24-25/514**Dated: **17.07.2024**

1 Sealed tenders are invited from eligible and qualified tenderers for supply of the following:

Schedule No.	Brief Description of Goods/ services	Quantity (with unit)	Earnest Money (in Rs.)	Remarks
1	Supply, Installation and Commissioning of Milling Type CNC Engraving Machine at SPM, Narmadapuram	1.000 No.	5,00,000.00 INR	
2	Supply, Installation and Commissioning of 3D CNC Engraving and Milling Machine at IGM, Hyderabad	1.000 No.	5,00,000.00 INR	
3	Supply, Installation and Commissioning of CNC Milling & Engraving Machine and Scanning Machine at IGM, Mumbai	1.000 No.	5,00,000.00 INR	

Type Of Tender (Two Bid/ PQB/ EOI/ RC/ Development/ Indigenization/ Disposal of Scrap/ Security Item etc.)	THREE-BID NATIONAL COMPETITIVE BID
Dates of Sale of Tender documents	As per MSTC E-Procurement Portal
Place of sale of tender documents	As per MSTC E-Procurement Portal
Closing date and time for receipt of tenders	As per e-procurement on MSTC.
Place of receipt of tenders	On MSTC E-procurement Portal
Time and date of opening of tenders	As per e-procurement on MSTC.
Place of opening of tenders	ADM OFFICE SECURITY PAPER MILL NARMADAPURAM
Nominated Person/ Designation to Receive Bulky Tenders (Clause 21.1 of GIT)	SANJAY KUMAR GAVASKAR, DEPUTY GENERAL MANAGER(MATERIAL)/CPSO

- 2 Eligibility to participate as per Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Ministry of Finance, Department of Expenditure, Public Procurement Division's Orders (Public Procurement 1, 2 and 3) F.No.6/18/2019-PPD dated 23rd/ 24th July 2020 (or any further amendments thereof) regarding eligibility of bidders from neighboring countries shall apply to this tender.
- 3 Interested tenderers may obtain further information about this requirement from <https://www.mstcecommerce.com/eproc/>.
- 4 Tenderer may also download the tender documents from the web site <https://spmarmadapuram.spmcil.com/> or <https://www.mstcecommerce.com/eproc/> and submit its tender by utilizing MSTC E-procurement Portal.



- 5 Tenderer may also download the tender documents from the web site mentioned above and submit its tender by utilizing the downloaded document; the bidder must not make any changes to the contents of the documents, except for filling the required information. A certificate to this effect must be submitted by the bidder in the Tender Form (Section X).
- 6 Tenderers shall ensure that their tenders, duly sealed and signed, complete in all respects as per instructions contained in the Tender Documents, are to be submitted on MSTC Govt. e-procurement portal and the website is <https://www.mstcecommerce.com/eproc/>.
- 7 In the event of any of the above-mentioned dates being declared as a holiday/ closed day for the purchase organization, the tenders will be sold/ received/ opened on the next working day at the appointed time.
- 8 The tender documents are not transferable.
- 9 The bidder, their affiliates, or subsidiaries – including subcontractors or suppliers for any part of the contract – should not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations. A declaration to this effect shall be submitted by the bidder in the Tender Form (Section X).
- 10 EMD amount mentioned in Section VI – List of Requirements shall be furnished in any one of the following forms:
 - a) Account Payee Demand Draft
 - b) Fixed Deposit Receipt
 - c) Banker's cheque

In acceptable form, otherwise the tender will not be accepted in any case. The demand draft, fixed deposit receipt or banker's cheque shall be drawn on any scheduled commercial bank in India, in favour of account and place of payment specified in the para 1 above. In case of FDR, the same must be printed by bank along with first beneficiary name i.e. Security Paper Mill (handwritten anywhere on FDR will not be accepted) Payable at Narmadapuram, in single copy and the same shall be submitted to SPM. In case of bank guarantee, the same is to be provided from/confirmed by any scheduled commercial bank in India as per the format specified under section XIII in these documents.

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.



11 Enclosed: BIDDER'S CHECK LIST BEFORE TENDER SUBMISSION

1. Check list (Annexure-I)
2. Declaration (Annexure-II)
3. Declaration (Annexure-III)
4. Declaration (Annexure-IV)

Yours faithfully,

(Sanjay Kumar Gavaskar)
Dy. General Manager (Material)/CPSO
For Chief General Manager
E-mail: sanjay.gavaskar@spmCIL.com
PHONE :- (07574) 286848 & 286776

CORRESPONDENCE ADDRESS

THE CHIEF GENERAL MANAGER
SECURITY PAPER MILL
NARMADAPURAM-461005(M.P.)

SIGNATURE OF BIDDER WITH NAME,
DESIGNATION & SEAL

.....
.....

[Name, designation, address, tel. No etc. of the officer signing the document]

For and on behalf of

.....



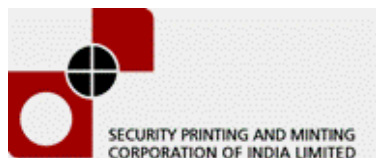
Section II: General Instructions to Tenderer (GIT)
Part I: General Instructions Applicable to all Types of Tenders

Kindly refer <https://spmCIL.com/uploaddocument/GIT/new.pdf> for further details (GIT contains 61 pages)



Section II: General Instructions to Tenderer (GIT)
Part II: General Instructions Applicable to all Types of Tenders

Kindly refer <https://spmCIL.com/uploaddocument/GIT/new.pdf> for further details (GIT contains 61 pages)



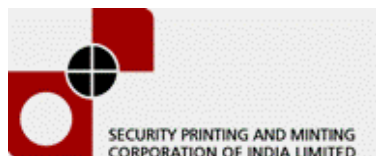
Section III: Special Instructions to Tenderers (SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/ substitute/ supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

(Clauses of GIT listed below include a possibility for variation in their provisions through SIT. There could be other clauses in SIT as deemed fit.)

Sl. No.	GIT Clause No.	Topic	SIT Provision
1	3.	Eligible Tenderers	Applicable
2	3.4	Eligible Goods and Services (Origin of Goods)	Applicable
3	6.1	The tender documents includes:	Applicable
4	8	Pre-bid Conference	Pre-bid conference will be held as per MSTC for this tender at SPM, Narmadapuram. Bidder should send their query (if any), one week before pre-bid conference.
5	9	Time Limit for receiving request for clarification of Tender Documents	A Tenderer requiring any clarification or elucidation on any issue of the tender documents may take up the same with SPMN in writing or by fax/e-mail/telex. SPMN will respond in writing to such request provided the same is received before 03 days prior to the prescribed date of submission of tender.
6	10.1	The Technical bid to be submitted by Tenderer shall contain the following documents, duly filled in, as required:	Applicable
7	11.2	Tender Currency	Supplier is requested to quote price in INR within 2 Decimal places. Quotation with price quote beyond 2 decimal places is ignored.
8	12.1	Tender Prices	Applicable
9	12.2,33,3 6.1	Schedule wise evaluation	Applicable
10	12.6	GST details	Applicable
11	14	PVC Clause & Formula	Not Applicable
12	14.4 to 14.7	Exchange Rate Variation (ERV)	Not Applicable



13	16.1 a) to c)	Documents Establishing Tenderer's Eligibility and Qualifications	Not Applicable
14	18.4, 18.5	Earnest Money Deposit (EMD)	Rs. 5,00,000/- for each schedule
15	19	Tender Validity	180 DAYS FROM THE DATE OF OPENING OF BID
16	20.4	Number of Copies of Tenders to be submitted	One copy in original
17	20.8	Two Bid System	Single Stage (Three packet system) refer Section-VI para 1 of the tender.
18	20.9	E-Procurement	Applicable
19	34. and 35.1	Comparison on CIF Destination Basis	Not Applicable
20	35.2 to 35.6	Additional Factors for Evaluation of Offers and Preferential schemes	Not Applicable
21	43	Parallel Contracts	Not Applicable
22	44.1	Serious Misdemeanors	Applicable
23	44.3	Integrity Pact	Not Applicable
24	45.1	Notification of Award	Applicable
25	50.	Applicability of additional GIT for rate Contracts	Not Applicable
26	51.	Applicability of additional GIT for PQB Tenders	Applicable
27	52.	Applicability of additional GIT for Tenders involving Samples	Not Applicable
28	53.	Applicability of additional GIT for EOI Tenders	Not Applicable
29	54.	Applicability of additional GIT for Tenders for Disposal of Scrap	Not Applicable
30	55.	Applicability of additional GIT for Development/Indigenization Tenders	Not Applicable
31	Special Condition	GST Returns	Supplier Should file the GST returns in time. SPM reserves the right to withhold the payment of GST till production of evidence of filling of Returns.
32	Special Condition	TCS u/s 206C (1H) read with TDS u/s 194Q:	SPM (as Buyer) is liable to deduct TDS u/s 194Q @ applicable rate on goods purchases (if applicable). In case of deduction of TDS under section 194Q; the Supplier (Vendor) need not to charge TCS u/s 206C (1H) on invoicing on or after 01.07.2021.
33	Special Condition	Sec. 206AB of IT Act:	Vendor has to submit declaration in specified format for the compliance of Section 206AB of Income Tax Act, 1961. In case of non-submission of declaration; TDS will be deducted at higher rates (as applicable) as per section 206AB.



Section IV: General Conditions of Contract (GCC)
Part I: General Conditions of Contract applicable to all types of Tenders

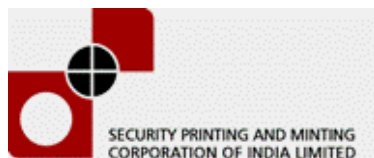
Kindly refer <https://spmCIL.com/uploaddocument/GCC/new.pdf> for further details (GIT contains 36 pages).



Section IV: General Conditions of Contract (GCC)

Part II: Additional General Conditions of Contract applicable to all types of Tenders

Kindly refer <https://spmCIL.com/uploaddocument/GCC/new.pdf> for further details (GIT contains 36 pages)



Section V: Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below. These Special Conditions will modify/ substitute/ supplement the corresponding (GCC) clauses.

Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

(Clauses of GCC listed below include a possibility for variation in their provisions through SCC. There could be other clauses in SCC as deemed fit)

S. No.	GCC Clause No.	Topic	SCC Provision
1	1.2	Abbreviations:	APPLICABLE
2	6.1, 6.3 & 6.5	Performance Bond/ Security	REFER SECTION-VI, CLAUSE NO.5 OF THE TENDER ENQUIRY
3	8.2	Packing and Marking	APPLICABLE
4	9	Inspection and Quality Control	APPLICABLE
5	11.2	Transportation of Domestic Goods	APPLICABLE
6	12.	Insurance	APPLICABLE
7	15	Distribution of Dispatch Documents for clearance/ Receipt of Goods	APPLICABLE
8	16.2, 16.4	Warrantee Clause	REFER SECTION-VI, CLAUSE NO.6 OF THE TENDER ENQUIRY AND TECHNICAL SPECIFICATION
9	19.3	Option Clause	NOT APPLICABLE
10	20.1	Price Adjustment Clause	NOT APPLICABLE
11	21.	Taxes and Duties	APPLICABLE
12	22.	Terms and Mode of payments	REFER SECTION-VI, CLAUSE NO.4 OF THE TENDER ENQUIRY
13	24.1	Quantum of LD	If the contractor fails to deliver the goods and/or services or any installment thereof within the Delivery Period, SPM Narmadapuram shall, without prejudice to other rights and remedies available to SPM, Narmadapuram under the contract, deduct from the contractor price, as Liquidated damages, a sum equivalent to the rate of 0.5 % of the delivered price of the delayed goods and/or services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10% of the delayed goods or services.
14	25.1	Bank Guarantee and Insurance for Material Loaned to Contractor	Not Applicable



15	33.1	Resolution of Disputes	APPLICABLE
16	36.3.2,	Disposal/ Sale of Scrap by Tender	Not Applicable



Section VI: List of Requirements

Schedule No.	Brief description of goods and services (Related specifications etc. are in Section-VII)	HSN Code	Accounting unit	Quantity	Amount of Earnest Money (INR)	Place of Delivery for GST purpose
1	Supply, Installation and Commissioning of Milling Type CNC Engraving Machine at SPM, Narmadapuram		No.	1.000	5,00,000.00 INR	
2	Supply, Installation and Commissioning of 3D CNC Engraving and Milling Machine at IGM, Hyderabad		No.	1.000	5,00,000.00 INR	
3	Supply, Installation and Commissioning of CNC Milling & Engraving Machine and Scanning Machine at IGM, Mumbai		No.	1.000	5,00,000.00 INR	

Pre-Qualification Bid, Technical bid and financial bid are to be submitted on the MSTC E-Procurement Portal. It may be noted that the price is not to be quoted either in Pre-Qualification Bid (PQB Cover) and technical bid (Technical Cover). It shall only be quoted in price bid (Price Cover). Non-adherence to this shall be making tender liable for rejection.

Tenders shall be submitted in parts as below:-

1. SUBMISSION OF TENDER: The bid is to be submitted in three parts are as follows:

I. PART-A: PRE-QUALIFICATION BID: KINDLY SUBMIT FOLLOWING DOCUMENTS WITH PRE-QUALIFICATION BID:

(1) Earnest Money Deposit : Rs. 5,00,000/- for each schedule and Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

(2) One original Tender document shall be submitted. It should not have any price aspects.

(3) Containing un-priced tender consisting commercial package including all terms and conditions. No price details to be given in this tender (as per Section-X).

(4) Containing un-priced tender consisting of complete Qualification/ Eligibility of the tenderer as per the format specified under Section-IX in this document.

(5) Submit the declaration duly seal and signed by Competent Authority on your letter head as per annexure-III as below:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India: I certify that M/s.....(firm's name) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that M/s (firm's name) fulfills at requirements in this regard and is eligible to be considered."

I, the undersigned, declare that the item.....originate in.....(Name of the country).



(6) Manufacturing/Authorization Certificate:

- (i) If the bidder firm is manufacturer then firm has to submit the valid registration certificate.
- (ii) If the bidder firm is not the manufacturer then firm has to submit the valid manufacturer's authorization certificate/valid dealership certificate of the item supplied as per the standard form duly filled by OEM as per annexure XIV of this tender document.

(7) Power of Attorney/ Authorization with the seal of the company of person signing the tender documents.

II. PART – B: TECHNICAL BID:

i. The tenderer shall submit detailed techno-commercial offer as per Technical Specifications as per Section VII of this tender document.

ii. The tenderer has to submit Annexure-II and IV as attached along with tender document with seal and signed.

iii. Containing Blank price Bid duly signed (No price detail is to be given in this bid. In case if any price detail is given, then the bids are liable to be rejected)

iv. The tenderer shall accept the terms of delivery, required delivery schedule, payment terms, validity of the tender, warranty clause as per Section VI para 4, 6, 7, 8 & 9 respectively of the tender document.

III. PART – C: PRICE BID:

The bidders shall quote the price and other elements of price as per the format given as Section – XI of this tender document. Insertion, post script, addition and alteration shall not be made, if any, will not be considered for calculating the price.

Note:

I. Un- Workable rates shall be liable for rejection.

II. Bidder to furnish stipulated documents along with tender in support of fulfillment of tender criteria. Further correspondence in this regard will not be entertained for any reason. Non-submission or incomplete submission of documents may lead to rejection of offer.

III. Non submission of any of the above document may lead to rejection of bid.

2. EVALUATION CRITERIA FOR L1 BIDDER WILL BE SCHEDULE WISE:

The pre-qualification bids are to be opened in the first instance, at the prescribed time and date. These bids shall be scrutinized and evaluated by the competent committee/ authority with reference to the parameters prescribed in the eligibility criteria. Thereafter, in the second stage, the technical bids of only pre-qualified bidders (as decided in the first stage) shall be opened at a later date and time for further scrutiny and further evaluation. These bids shall be scrutinized and evaluated by the competent committee/ authority with reference to the parameters prescribed in the tender document. Subsequently, in the third stage the financial bids of only the technically acceptable offers (as decided in the second stage) shall be opened for further scrutiny and evaluation. Intimation regarding to opening of technical and financial bids shall be given to acceptable Tenderers to enable them to attend the technical and financial bid opening.



The method of evaluation of L1 bidder for awarding the Contract shall be on schedule wise as per Section-XI.

3. Procurement Preference for MSE

- 1) From time to time, the Government of India (Procuring Entity) lays down procurement policies to help inclusive national economic growth by providing long-term support to micro, small and medium enterprises and disadvantaged sections of society. The Procurement Policy for Micro and Small Enterprises, 2012 [amended 2018 and 2021] has been notified by the Government in exercise of the powers conferred in Section 11 of the Micro, Small and Medium Enterprises Development (MSMED) Act, 2006. Details of the policy along with the amendments issued in 2018 and 2021 are available on the MSME website.
- 2) Micro and Small Enterprises (MSEs) registered under Udyam Registration are eligible to avail the benefits under the policy.
- 3) The policy is applicable to all the central government ministries/Departments/ CPSUs. However, the policy is not applicable to state government ministries/ departments/PSUs.
 - a) In tender, participating Micro and Small Enterprises (MSE) quoting price within price band of L1+15 (fifteen) per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to 25(twenty five) per cent of total tendered value. The 25(twenty five) per cent quantity is to be distributed proportionately among these bidders, in case there are more than one MSEs within such price band.
 - b) Within this 25% (Twenty Five Percent) quantity, a purchase preference of four (4) per cent is reserved for MSEs owned by Scheduled Caste (SC)/ Scheduled Tribe (ST) entrepreneurs and three (3) percent is reserved for MSEs owned by women entrepreneur (if they participate in the tender process and match the L1 price). However, in event of failure of such MSEs to participate in tender process or meet tender requirements and L1 price, four percent sub-target for procurement earmarked for MSEs owned by SC/ST entrepreneurs and three (3) percent earmarked to women entrepreneur will be met from other MSEs.

MSEs would be treated as owned by SC/ ST entrepreneurs:

- i. In case of proprietary MSE, proprietor(s) shall be SC /ST;
 - ii. In case of partnership MSE, the SC/ ST partners shall be holding at least 51% (fifty-one percent) shares in the unit;
 - iii. In case of Private Limited Companies, at least 51% (fifty-one percent) share shall be held by SC/ ST promoters.
- 4) If subcontract is given to MSEs, it will be considered as procurement from MSEs.
 - 5) In case of tender item cannot be split or divided, etc. the MSE quoting a price within the band L1+15% may be awarded for full/ complete supply of total tendered value to MSE, considering the spirit of the Policy for enhancing Govt. Procurement from MSEs.

4. PAYMENT TERMS.

I. For Item No. 1: The Payment shall be made by SPM, Narmadapuram as per below:

100% payment shall be made after delivery, installation and commissioning, FAT and training and on production of all required documents by the supplier. The mode of payment shall be RTGS / NEFT.



II. For Item No. 2: The Payment shall be made by IGM, Hyderabad as per below:

100% payment shall be made after delivery, installation and commissioning, FAT and training and on production of all required documents by the supplier. The mode of payment shall be RTGS / NEFT

III. For Item No. 3: The Payment shall be made by IGM, Mumbai as per below:

100% payment shall be made after delivery, installation and commissioning, FAT and training and on production of all required documents by the supplier. The mode of payment shall be RTGS / NEFT

5. PERFORMANCE SECURITY:

(5.1) Item-wise performance security shall be submitted by successful bidder as per below:

I. For Item No. 1: Within twenty-one days after the issue of notification of award by Security Paper Mill, Narmadapuram, the supplier shall furnish performance security of 05% of the value of item no. 1 (inclusive GST) to Security Paper Mill, Narmadapuram, valid up to sixty days after the date of completion of all contractual obligations by the supplier, including the warranty obligations. After receipt of performance security by the bidder, Security Paper Mill, Narmadapuram shall issue the detailed Purchase order.

II. For Item No. 2: Within twenty-one days after the issue of notification of award by Security Paper Mill, Narmadapuram, the supplier shall furnish performance security of 05% of the value of item no. 2 (inclusive GST) to India Govt. Mint, Hyderabad, valid up to sixty days after the date of completion of all contractual obligations by the supplier, including the warranty obligations. After receipt of performance security by the bidder, India Govt. Mint, Hyderabad shall issue the detailed Purchase order.

III. For Item No. 3: Within twenty-one days after the issue of notification of award by Security Paper Mill, Narmadapuram, the supplier shall furnish performance security of 05% of the value of item no. 3 (inclusive GST) to India Govt. Mint, Mumbai, valid up to sixty days after the date of completion of all contractual obligations by the supplier, including the warranty obligations. After receipt of performance security by the bidder, India Govt. Mint, Mumbai shall issue the detailed Purchase order.

(5.2) the performance security shall be denominated in Indian Rupees or in the currency of the contract and shall be in one of the following forms:

(a) Account payee Demand Draft or Fixed Deposit Receipt drawn on any commercial bank in India, in favour of as follows:

- For Item No. 1: Security Paper Mill, Narmadapuram
- For Item No. 2: India Government Mint, Hyderabad
- For Item No. 3: India Government Mint, Mumbai

(b) Bank Guarantee issued by a commercial bank in India, in the prescribed form as provided in Section XV of this document.

(5.3) In the event of any loss due to supplier's failure to fulfill its obligations in terms of the contract, the amount of the performance security shall be payable to respective units to compensate for the same.



(5.4) In the event of any amendment issued to the contract, the supplier shall, within twenty-one days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract as amended.

6. WARRANTY:

6.1 The supplier warrants that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by SPMN/IGMH/IGMM in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and / or the material used are as per SPM's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.

6.2 This warranty shall remain valid for twelve months after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by SPMN/IGMH/IGMM in terms of the contract or for eighteen months from the date of dispatch from the supplier's premises whichever is later.

6.3 In case of any claim arising out of this warranty, respective unit shall promptly notify the same in writing to the supplier.

6.4 Upon receipt of such notice, the supplier shall, with all reasonable speed and time, repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/ goods after providing their replacements and no claim, whatsoever shall lie on SPMN/IGMH/IGMM for such replaced parts/ goods thereafter.

6.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/ replaced goods shall be extended to a further period of twelve months from the date such rectified / replaced goods starts functioning to the satisfaction of SPMN/IGMH/IGMM.

6.6 If the supplier, having been notified, fails to rectify/ replace the defect(s) within a delivery period, SPM may proceed to take such remedial action(s) as deemed fit by SPMN/IGMH/IGMM, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which SPMN/IGMH/IGMM may have against the supplier.

7. TERMS OF DELIVERY:

I. For Item No. 1: F.O.R. Security Paper Mill, Narmadapuram (Duly Unloaded) with installation, commissioning and FAT with training.

II. For Item No. 2: F.O.R. India Government Mint, Hyderabad (Duly Unloaded) with installation, commissioning and FAT with training.

III. For Item No. 3: F.O.R. India Government Mint, Mumbai (Duly Unloaded) with installation, commissioning and FAT with training.



Transport the contracted material/supplies only through Registered Common Carriers.

8. REQUIRED DELIVERY SCHEDULE:

- a) The Milling Type CNC Engraving Machine must have to be supplied within 10 (Ten) Months from the date of issue of PO/NAC (whichever is earlier) at respective (item-wise) destinations.
- b) The Milling Type CNC Engraving Machine shall be installed, commissioned and tested within 2 Months i.e. 60 days from the date of receipt of machines at respective (item-wise) destinations.

9. TENDER VALIDITY:

(i) The tender shall remain valid for acceptance for a period of 180 days after the date of tender opening prescribed in the tender document. Any tender valid for a shorter period shall be treated as unresponsive & rejected.

(ii) In exceptional cases, the tenderers may be requested by SPM to extend the validity of their tenders up to a specified period. Such request (s) and responses thereto shall be conveyed by surface mail/ E-mail/ Telex/ Cable followed by surface mail before 03 days of opening of tender. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly.

(iii) In case the day up to which the tenders are to remain valid falls on/subsequently declared a holiday or closed day for SPM, Narmadapuram the tender validity shall be extended up to the next working day.

(iv) Compliance with the clauses of this Tender document: Tenderer must comply with all the clauses of this tender document. No deviations with any of the clauses of this tender are permitted to the bidder.

10. AFTER SALES SERVICE:

It must be clearly indicated in the quotation whether the sales service shall be provided by supplier himself or by their authorized Indian office after satisfactory installation/commissioning of the machine and expiry of guarantee/warranty period. All terms and conditions of this tender shall apply to after sales services also.

11. AFTER SALES SUPPORT:

The supplier shall provide technical support for the system/machine and make available all required spares and consumables for a period of at least 10 years from the date of expiry of warranty period. All terms and conditions of this tender shall apply to after sales/services support also. Written commitment should be submitted in this regard along with techno-commercial bid.

12. The supplier shall supply commissioning spares, oil and lubricants and consumables as may be required during installation, erection, testing, start up and initial operation of the machine till completion of successful commissioning and commencement of regular operations and completion of Final Acceptance test (FAT) at purchaser site.



13. SPARE PARTS:

- i. The bidder shall supply critical spare parts and consumable items related to Electrical, Mechanical, E&I and operation for trouble free operation of machine upto warranty period i.e. 01 year.
- ii. Apart from that supplier should provide list & details of spare parts should indicate detailed description of item, identification number and quantity. The list should be un-priced along with techno commercial bid and price should be only along with price bid. Also the offered unit price of these spares shall remain fixed/ unchanged for 05 years after expiry of warranty period. The offered price of spares will not be considered during price evaluation and deciding L-1 firm. A written confirmation in this regards should be submitted by the bidder on their letter head along with technical bid.

14. ANNUAL MAINTENANCE CONTRACT:

AMC is included in the proposal and the bidder shall provide the annual maintenance contract for next 03 year after completion of warranty period. Annual maintenance contract liable for rectification and replacement of all equipment related to Electrical, mechanical and instrumentation system will be scope of bidder.

15. LICENSES AND PERMITS:

Wherever applicable, the successful bidder shall ensure himself and also satisfy the Chief General Manager, Security Paper Mill, Narmadapuram that, the successful bidder possesses the legal license/permit to use a particular product/ process/ design/ patent. The successful bidder shall be held responsible for all the civil/criminal and tortuous consequences arising from any claim from any third party in this regard.

16. FALL CLAUSE:

The price quoted for supply, installation, commissioning of Milling Type CNC Engraving Machine to be supplied against this tender by the prospective seller shall in no event exceed the lowest price at which the seller sells the supply, installation, commissioning of Milling Type CNC Engraving Machine of identical specification to any other party. A declaration/ certificate to this effect will have to be furnished along with the Price Bid.

17. RISK PURCHASE:

(a) If the supplier after submission of tender and due acceptance of the same, i.e. after notification of award of contract/purchase order fails to abide by the terms and conditions of these tender documents, or fails to supply the deliverables as per delivery schedule given or at any time repudiates the contract, the purchaser shall have the right to

(i). Invoke the Security-cum-Performance Guarantee if deposited by the supplier and procure stores from other agencies at the risk and consequence of the supplier. The cost difference between the alternative arrangement and supplier tendered value will be recovered from the supplier along with other incidental charges, including custom duty, taxes, insurance, freight etc.

(b) For all the purpose the notification of award of contract/ purchase order will be considered acceptance of tender and formal contract pending signing of agreement. Supplier has to abide by all terms and conditions of tender.

(c) In case of procurement through alternative sources and if procurement price is lower, no benefit on this account will be passed on to the supplier.



18. ARBITRATION:

(a) In case any dispute or difference arises out of or in connection with or the carrying out of works (whether during the progress of the works or after their completion and whether before or after the determination, abandonment or breach of the contract) except as to any of the accepted matters, provided here under, the parties hereto shall first Endeavour to settle such disputes or differences amicably.

(b) Indian Laws will be applicable in every aspects of the bid/contract/tender. Further, if any dispute arises after the issue of letter of Intent and during the execution of the project which is not resolved within 30 days of their arising, they shall be referred to a sole arbitrator to be appointed by the Chairman and Managing Director acting through the General Manager, Security Paper Mill, Narmadapuram. Provisions of Indian Arbitration Act, 1940 or any statutory modification or re-enactment thereof and rules framed there under from time to time shall apply to such arbitrations.

(c) Venue of arbitration shall be New Delhi/Narmadapuram/Hyderabad/Mumbai or any other place in India at the choice of the Purchaser.

(d) The arbitrator, appointed under this Article shall have the power to extend the time to make the award with the consent of parties.

(e) Pending reference to arbitration, the parties shall make all endeavors to complete the contract/work in all respects and all disputes, if any, will finally be settled in the arbitration.

(f) Upon every or any such reference to the arbitration, as provided herein the cost of any incidental to the reference and award respectively shall be in the discretion of the Arbitrator as the case may be.

(g) The award of the Arbitrator, as the case may be, shall be final and binding on the parties. It is agreed that the SELLER shall not delay carrying out of the contract/works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the contract/works with all due diligence. The PURCHASER and the SELLER hereby also agree that arbitration under this clause shall be a condition precedent to any right of action under the contract.

19. MAKE IN INDIA (DIPP Clause):

The provisions of the revised Public Procurement (Preference to Make in India) Order 2017 - dated 04th June 2020 (and subsequent amendments, if any) by Department for Promotion of Industry and Internal Trade, Gol shall apply to this tender to the extent feasible.

Preference to Make in India Products

1. Department for Promotion of Industry and Internal Trade, (DPIIT - Public Procurement Section) has issued order No. P-45021/2/2017-PP (BE-II) dated 04th June 2020, revising its "Public Procurement (Preference to Make in India) Order 2017" (PPIMII) to encourage 'Make in India' and promote manufacturing and production of goods and services in India. Local content can be increased through partnerships, cooperation with local companies, establishing production units in India or Joint Ventures (JV) with Indian suppliers, increasing the participation of local employees in services and training them.

2. Categories of Local Suppliers:

Bidders/ Supplier are divided into three categories based on Local Content (local value addition as a %age of total value):



- 'Class-I local supplier' with local content equal to or more than 50%
- 'Class-II local supplier' with local content more than 20% but less than 50%
- 'Non - Local supplier' with local content less than or equal to 20%

3. Nodal Ministry/ Department:

- a) Nodal Ministry/ Department for various products have been prescribed on DPIIT website. The products where there is sufficient local capacity and local competition and prescribe or vary minimum local content (only above which benefits of PPI-MII order are applicable for a procurement). It may make special provisions for exempting suppliers from meeting the stipulated local content if the product is being manufactured in India under a license from a foreign manufacturer who holds intellectual property rights and where there is a technology collaboration agreement/ transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phased increase in local content. Guidelines by respective Nodal Ministry/ Department for different products can be seen from website of DPIIT.
- b) Nodal Ministry for its items may issue directions to exclude bidders from a country from eligibility for its procurement as measure of reciprocity of such action by that country against Indian 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) more than 50% of the value of the item being supplied has been added in that country. Indian suppliers shall mean those entities which meet any of these tests with respect to India.

4. Eligibility to participate and Purchase preference to Class-I local suppliers in Tenders of all goods, services or works:

- (a) Only 'Class-I local supplier' shall be eligible to bid irrespective of purchase value - where there is sufficient local capacity and local competition Hence in such cases there is no question of price preference.
- (b) Only 'Class-I local supplier' and 'Class-II local supplier' shall be eligible (and 'Non-local suppliers are NOT eligible) to bid in other procurement of less than Rs. 200 Crore (where Global Tender would not be normally allowed). All three categories of suppliers are eligible to bid in global tender enquiries. In such procurements Class-I local suppliers (provided they fulfil the minimum local content specified in the tender for the item) would be given preference over other categories of suppliers (who are not entitled to any purchase preference) as per following procedure:

(1) For goods and works where the requirements are divisible by nature:

- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
- ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.

(2) For goods and works where the requirements are not divisible in nature, and in procurement of services where the bid is evaluated on price alone:



- i. Among all qualified bids, the lowest bid will be termed as L1. If L 1 is 'Class-I local supplier', the contract will be awarded to L1.
 - ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
 - iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
- (c) The margin of purchase preference shall be 20%, unless otherwise stipulated by the Nodal Ministry/ Department. Minimum local content is 50%, unless otherwise specified by the Nodal Ministry/ Department. The minimum local content, the margin of purchase preference and the procedure for preference to Make in India shall be specified in the notice inviting tenders and shall not be varied during procurement.

5. Verification of local content and violations:

- a. The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.
- b. In cases of procurement for a value in excess of Rs 10 crores, the 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
- c. Complaints about Local content declarations may be made through the channels of SPMCIL. SPMCIL and Nodal Ministries may prescribe fees for such complaints.
- d. For False declarations a bidder or its successors can be debarred for up to two years by following debarment procedures along with such other actions as may be permissible under law.

20. E-WAY BILL:

As per Government of India instruction e-Way Bill is mandatory with effect from 01-02-2018 for all inter-State and intra-State movement of goods. Therefore you are requested to generate the e-Way Bill before booked the material through common portal of Government and attach e-Way Bill with your invoice.

Required GST details of Security Paper Mill, Narmadapuram is as follows:-

Trade Name : SECURITY PAPER MILL City, State: Narmadapuram, Madhya Pradesh
State Code : 23
Pin : 461005
GSTIN No. : 23AAJCS6111J3ZE
PAN NO. : AAJCS6111J



Required GST details of India Government Mint, Hyderabad is as follows:-

Trade Name : INDIA GOVERNMENT MINT, City, State: Hyderabad, Telangana
State Code : 36
Pin : 500051
GSTIN No. : 36AAJCS6111J2Z8
PAN NO. : AAJCS6111J

Required GST details of India Government Mint, Mumbai is as follows:-

Trade Name : INDIA GOVERNMENT MINT, City, State: Mumbai, Maharashtra
State Code : 27
Pin : 400001
GSTIN No. : 27AAJCS6111J1Z8
PAN NO. : AAJCS6111J

21. FORCE MAJEURE CLAUSE:

A Force Majeure (FM) means extraordinary events or circumstance beyond human control such as an event described as an act of God (like a natural calamity) or events such as a war, strike, riots, crimes (but not including negligence or wrong-doing, predictable/seasonal rain and any other events specifically excluded in the clause). An FM clause in the contract frees both parties from contractual liability or obligation when prevented by such events from fulfilling their obligations under the contract. An FM clause does not excuse a party's non-performance entirely, but only suspends it for the duration of the FM. The firm has to give notice of FM as soon as it occurs and it cannot be claimed ex-post facto. There may be a FM situation affecting the purchase organisation only. In such a situation, the purchase organisation is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding 90 (ninety) days, either party may at its option terminate the contract without any financial repercussion on either side. Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in the FM clause.

Notwithstanding the provisions contained in GCC clauses 23, 24 and 26, the supplier shall not be liable for imposition of any such sanction so long the delay and/ or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.

In case due to a Force Majeure event SPMCIL is unable to fulfill its contractual commitment and responsibility, SPMCIL will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

22. PRE-DISPATCH INSPECTION (PDI):

Pre-Dispatch Inspection shall be conducted as mentioned item-wise in the Section-VII Technical Specification of the tender.



23. FINAL ACCEPTANCE TEST (FAT):

Final Acceptance Test shall be done as mentioned item-wise in the Section-VII Technical Specification of the tender.

SIGNATURE OF BIDDER WITH
NAME, DESIGNATION & SEAL



Section VII: Technical Specifications

FOR ITEM NO. 1: SUPPLY, INSTALLATION AND COMMISSIONING OF MILLING TYPE OF CNC ENGRAVING MACHINE AT SPM, NARMADAPURAM

Scope of Work:

- a) To design, supply, installation & commissioning of latest technology based Milling Type CNC Engraving Machine with all accessories, which should be capable for engraving of 2D & 3D multi-tonal images on brass plate or any other metallic plate with automatic tool changing system to manufacture male and female embossing dies for making CWBN Mould cover.
- b) To supply all the necessary software for designing of multi-tonal images which to be engraved and to convert 2D image to 3D image.
- c) To supply, installation & commissioning of a scanner for scanning 2D as well as 3D engraved images from brass plate or any other metallic/pop/Wax materials etc.
- d) To supply, installation & commissioning of a cutter grinding machine to make engraving tools as per requirement.
- e) The scope of work also includes in-house training of operation & maintenance Milling Type CNC Engraving Machine, Designing software, Scanner, cutter grinding machine and all other required accessories.

Technical Details:

1.) Milling Type CNC Engraving Machine:

- i. The machine to be provided with suitable structure to resist high vibration.
- ii. The machine should have enclosure with viewing windows and proper lighting.
- iii. Work area (min) (X, Y, Z): 600 x 400 x 250 mm.
- iv. X- axis is in right/left position; Y- axis is in front/ back position; Z- axis is in upper/ down position
- v. Vacuum clamping system with vacuum unit to be provided for secure clamping of work pieces which shall capable to hold very small work piece (up to 50 mm x 50 mm) too with an overall tolerance ± 0.02 mm.
- vi. Repeatability accuracy (min): $\pm 2 \mu\text{m}$ (standard e.g. VDI 3441).
- vii. Positional accuracy (min): $\pm 5 \mu\text{m}$ (standard e.g. VDI 3441).
- viii. Resolution of axis: $0.1 \mu\text{m}$ for all axis.
- ix. High precision guide block to be provided in guiding system at all levels.
- x. Complete cover to provide for guide ways and lead screw.
- xi. Axes driven by high resolution servo motors.
- xii. Traversing speed feed min 8 m/min
- xiii. Traversing speed quick motion min 8 m /min
- xiv. Outer Machine dimensions (max): B x D x H: 2500 x 2000 x 2500 mm
- xv. To provide industrial grade PC with latest hardware & software (OS) to run the CNC engraving machine. The minimum configuration of PC is i7 processor/RAM 8GB/128GB SSD/512 GB HDD/ 18" LED monitor/suitable graphics card.

a) Control Unit :

- i. High resolution axis track control for machine to be provided.
- ii. Servo and step motor control for all axis.
- iii. Encoder analysis in all axis
- iv. Hand held operator panel to be provided with hand wheel & keys for ease operation of CNC machine (X, Y, Z direction moving with speed control; Spindle rpm control; pneumatic control; tool tray opening control; spindle emergency stop; machine emergency shutdown.)
- v. User friendly 3D output and handling software to be provided for CNC engraving machine.
- vi. Automatic tool changing as per the requirement of engraving & milling jobs.
- vii. Automatic shutdown of machine after completion of work.



b) Spindle package:

The suitable universal anti rust steel body spindle to be provided for Milling Type CNC engraving purposes which should have the following features:

- i. The sound of spindle during operation should be ≤ 65 db.
- ii. The spindle to be optimized for an automatic tool change with change cones.
- iii. Change cones enable the use of different tool shank diameters with in the tool changer.
- iv. Suitable frequency converter to be provided to perfectly adopt the efficiency of the spindle.
- v. Spindle speed: min 5,000 & max: 45000 or above
- vi. Speed monitoring system with speed sensor to be provided.
- vii. Suitable cleaning mandrel to be provided with in the spindle.
- viii. Spindle to be provided with adequate collect & collect chuck.

c) Cooling for spindle:

A suitable indoor location cooling unit to be provided for spindle as follows:

- i. Status monitoring display unit (i.e. overheat, flow rate, any other failure etc.)
- ii. Cooling media level indicator to be provided.

d) Tool Changing System to collets for spindle:

Automatic tool changing station for unattended operation to be provided as follows:

- i. Tool changing system to be provided outside working area.
- ii. At least 10 tool change station to be provided
- iii. Tool length sensor to provide for automatic tool length correction.
- iv. Toll changing station to be covered with auto operated cover.
- v. To provide at least 10 Nos holder and collet along with different size of suitable High Speed steel or Carbide tools for rough cutting/fine cutting/very fine cutting upto 0.2 mm.

2.) Scanner & Digitizing System:

A Scanner cum digitization unit to be provided for scanning and digitizing of 2D as well as 3D engraved image from brass plate or any other material like metallic/POP/Ceramic plate etc. The salient features of the system are as follows:

- i. Variable Scanning area up to 300 x 400 mm
- ii. Machine speed (min): 400 mm/s
- iii. Auto adjustable Z axis to recognition of automatic detection of the measuring range and the pseudo measuring range.
- iv. For clamping facility to be provided for the work piece over work area.
- v. Suitable laser technology or any other equivalent technology may be adopted for scanning purpose with different focal lengths of lens like: 25 mm; 50 mm; 75 mm; 100 mm, 125 mm, 150 mm.
- vi. The machine should have enclosure with viewing windows and proper lighting.
- vii. The machine to be provided upon a suitable base frame.
- viii. Possibility to be given for automatic and manual movement of machine axis through joystick.
- ix. Scanning resolution:
 - X-axis $\leq 0.125 \mu\text{m}$
 - Y-axis $\leq 0.125 \mu\text{m}$
 - Z-axis $\leq 0.125 \mu\text{m}$
- x. User friendly 2D & 3D digitization software to be provided.
- xi. Selection of desired X, Y resolution to be done through software
- xii. Possibility to be given for automatic and manual movement of machine axis through software.
- xiii. Automatically saves the surface data after digitization in gray scale file for photo software. The saved file must be compatible for design software of CNC engraving machine.
- xiv. Possibility to be provided to transfer scanned gray scale data to design software of CNC machine for making the design of embossing die.



- xv. A separate industrial grade PC apart from CNC engraving machine, with latest hardware & software (OS) to be provided for Scanner & Digitizing System. The minimum configuration of PC is i7 processor/RAM 8GB/128 GB SSD/512 GB HDD/18" LED monitor/suitable graphics card.

3.) Cutter Grinding machine:

To make tools for engraving, a cutting Grinding machine to be provided as follows:

- i. Dividing head with collet chuck
- ii. Wheel mount with balancing segments
- iii. Dust extractor with suction hose
- iv. Online Tool measuring system with camera
- v. Microscopic focus on grinding head to measure tool tip
- vi. Coordinate table with micrometer
- vii. A tool cabinet
- viii. A separate PC with measuring software to be provided
- ix. Noise level ≤ 65 db
- x. Provide atleast 20 Nos spare suitable carbide/HSS rod for making suitable tools for CNC engraving machine.

4.) CAD & Design Software:

- i. Complete latest updated version CAD & Design software for manufacturing of Engraving/ Milling/Scanning jobs to manufacture dies for mould cover making to be given.
- ii. The salient features are:
- iii. Input data: height as grey scales for photo software(example: *.TIF)
- iv. To convert 2D image to 3D
- v. Simultaneous creation of several different engraving and milling strategies (2D, 2½ D, 3 D)
- vi. Custom tool bars
- vii. Processing & creating of fonts
- viii. 3D display data
- ix. Image to Vector converting & all possible editing
- x. Scan module to be interconnected with CAD designing software for using of scan data.
- xi. A separate industrial grade PC with latest hardware & software (OS) to be provided for CAD & designing software to workout in gray scale image for CNC engraving machine System. The minimum configuration of PC is i7 processor/RAM 8GB/256 GB SSD/1 TB HDD/32" LED monitor/suitable graphics card.
- xii. Atleast 1 year license version of Photoshop software must be provide and installed in designing PC.

REMOTE AND MAINTENANCE:

Remote maintenance facility to be provided for trouble shooting via an analogous modem (Analogous telephone mainlines to be provided by the SPM) and it should be firewall protected.

ELECTRICAL AND E&I REQUIREMENT:

- i. All the required software must be license versions.
- ii. All the cables are of copper.
- iii. Earthing to be provided to all the equipment which is also in the scope of bidder.
- iv. All the motor supplied with the system should be IE3 & IP55.
- v. A suitable provision for energy consumption reading to be given. Multi functioning meter in main incoming supply should be installed for reading of energy consumption, power factor, voltage, current, KVA, KVAR and provision to read in monitor.
- vi. Control supply to all entire machines i.e. PLC, controller, field instrument and monitor etc to be given from UPS (required UPS is in the scope of bidder).
- vii. UPS should have a backup time of min 45 minutes.
- viii. AC drives license and every equipment test certificate to be given.
- ix. All PU fittings and piping should be of heavy duty industrial grade.



- x. All control panels and electronic systems should be closed to avoid entry of rodents.
- xi. All control panels and electronic systems should be equipped with air conditioning system to control humidity, temperature etc. suitable for climatic condition of Narmadapuram, India.
- xii. All electrical connections should have proper metallic/plastic tagging and cross ferruling.
- xiii. All the PC of the system should be of industrial grade and with latest OS.
- xiv. Back up of application software, and all programs are required in an external storage device.
- xv. Procedure to restore backup system is required.
- xvi. Procedure to create an image of PC is required.
- xvii. The Human Machine Interface should be prepared in English language.
- xviii. Bidder has to provide procedure for restoring backups and creating images of PC.

Battery Limit:

- i. All the power cables are in the scope of bidder. SPM will provide a single point Power supply of 3 phases, 415 volts, 50Hz AC at PCC room which is approx. 300 meter away from wire workshop (site of installation). Further distribution including cabling, earthing cable trays etc. shall be in the scope of bidder.
- ii. Compressor for provision of suitable air (free from dust, oil, water) for CNC machine will be in the scope of bidder.
- iii. All structural work such as making supporting structure/Foundation breaking, laying of pipe / cable trenches will be scope of bidder.
- iv. Any other work not specifically mentioned in this tender but required to execute the project will be scope of supplier.

TRAINING:

The supplier shall provide training regarding operation, maintenance and software applications to employees at SPM, Narmadapuram as follows:

Mechanical Maintenance – minimum 01 day

Electrical Maintenance including drive & trouble shooting – minimum 01 day

Overview of system from E&I perspective and its trouble shooting – minimum 02 days
(PLC Hardware configuration, Programming software & application, Graphics designer, Interface between controller & peripherals, field bus networking & cabling, Installation of cameras, alignment of cameras, camera setting, Hands-On-Training on necessary hardware and software tool, troubleshooting of errors et.)

Operation & Programming – minimum 06 working days

TECHNICAL DOCUMENTATION:

- i. All documentations to be provided in English/Hindi.
- ii. Two hard copy as well as soft copy of operation manuals including the details of each equipment with trouble shooting.
- iii. Two hard copy as well as soft copy of maintenance procedure including the details drawing of each equipment.
- iv. Two hard copy as well as soft copy of as built circuit diagram, test certificates and manuals of electrical equipment.
- v. Two hard copy as well as soft copy of complete “control philosophy literature/ details interlocking & logic diagram”, electrical drawing, network architecture, manuals of individual instruments, complete “bill of material”, licenses.
- vi. Bidder has to provide hard as well as soft copies of as built circuit diagram, troubleshooting manual, control philosophy literature, electrical drawing, network architecture, manuals of individual instruments, complete bill of material, original licenses etc.
- vii. List of all consumable items and all spare/wear parts



SPARE PART AND SERVICE:

- i. The bidder shall supply critical spare parts and consumable items related to Electrical, Mechanical, E&I and operation for trouble free operation of machine upto warranty period i.e. 01 year.
- ii. Apart from that supplier should provide list & details of spare parts should indicate generalised detailed description of item, identification number and quantity. The list should be un-priced along with techno commercial bid and price should be only along with price bid. Also the offered unit price of these spares shall remain fixed/ unchanged for 03 years after expiry of warranty period. The offered price of spares will not be considered during price evaluation. A written confirmation in this regards should be submitted by the bidder on their letter head along with technical bid

AFTER SALES SUPPORT:

The supplier shall provide technical support for the system/machine and make available all required spares and consumables for a period of at least 10 years from the date of expiry of warranty period. All terms and conditions of this tender shall apply to after sales/services support also. Written commitment should be submitted in this regard along with techno-commercial bid.

ANNUAL MAINTENANCE CONTRACT:

The proposal is included Annual maintenance contract valid for 3 year from the date of completion of warranty of the machine.

Scope of work under this AMC contract are as follows:

- i. Yearly minimum 01 visit for preventive and health checkup of Electrical/Mechanical and Instrumentation parts of the Machine and its auxiliaries or spm requirement in case of machine breakdown, the firm should attend all the issue during AMC period. The cost of breakdown visit will be in the scope of firm. The firm representative must be reached at SPM site within 04 days after receipt of SPM notice in case of machine breakdown.
- ii. Provision of Online supports for Rectification any defects during contract period with in 24 hrs. of intimation by EIC.
- iii. Provision of all the spares, consumable items from electrical, mechanical and Instrumentation side will be scope of SPM.
- iv. Provision of special types of tools and tackles will be scope of bidder.
- v. Annual maintenance contract liable for rectification and replacement of all equipment related to Electrical, mechanical and instrumentation system will be scope of bidder.

ERECTION & COMMISSIONING:

- i. Complete package i.e. unloading, shifting, erection, commissioning of electrical, mechanical, & instrumentation with all spare parts, cable, control cable, piping, structure & man power will be in the scope of bidder.
- ii. Turn-key basis project.

PDI (Pre-Dispatch Inspection) & SAT (Site Acceptance Test):

(i) PDI (Pre Dispatch Inspection):

1. The machine will be accepted after complete functional testing during Pre Dispatch inspection at supplier firm's site.
2. SPM representatives will conduct pre dispatch inspection at the supplier firm's site in which following functional activities of the equipment to be checked.
 - i. Visual inspection in respect of safety points Run ability of PC System
 - ii. Workability of Camera System i.e. moving of camera in different axis, display picture by camera on PC.



- iii. Run ability of various drives & PLC control of the system
 - iv. An engraving of any 3D non security image i.e. Portrait/Alphabet/Numeral to be done by the bidder on brass plate. Supply of brass plate during the PDI will be in the scope of bidder. Specification of brass plate is Cu – 58%; Pb – 3%; Zn – 39%; Hardness: 90 HB; Thickness: 10mm (+/-0.05mm); No cracks or blow holes should be present inside the plate. The non-security image will be provided by SPM.
3. The expenditures towards inspection at supplier firm's site shall be borne by the successful supplier, whereas the other expenses (like traveling, accommodation, etc.) shall be borne by SPM, Narmadapuram.

(ii) Site Acceptance Test or Final Acceptation Test (FAT):

FAT will be done at SPM premises as per following criterion:

1. To check all the specifications of the equipment in line to tender technical specifications.
2. Six (06) pair of embossing dies will be produced for making 2 nos. of Mould cover of cylindrical watermark bank note. The depth of engraving is up to 2.5 mm from surface of plate. The required engraving area for one pair of embossing die for CWBN is 165 mm x 70 mm & one pair of above die must be engraved within 16 hours.
3. One (01) pair of embossing die will be produced for making 1 no of Mould cover of Security product i.e. NJSP. The depth of engraving is up to 2.5 mm from surface of plate. The required engraving area for one pair of embossing die for NJSP is 210 mm x 300 mm & one pair of above die must be engraved within 40 hours.
4. To produce at least 6 Nos of different types of required tools (for rough cutting/fine cutting/very fine cutting) up to the diameter of 0.2 mm at cutter grinding machine.
5. To scan 6 nos. of embossing brass die of CWBN & 2 nos. of NJSP will be scanned in scanner & digitization system.
6. The complete FAT including the entire execution of above job must be finished within 9 working days.
7. The required material i.e. Brass plate & 3D engraving images for FAT will be in the scope of SPM.

Special Condition:-If FAT has not been achieved because of reason attribution to supplier. The supplier will be responsible to undertake the necessary rectification and modify the delivered parts wherever is required and the firm again recall for fresh FAT.

WARRANTY:

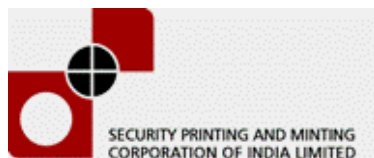
The firm shall provide qualitative, operation and performance onsite warranty for at least one year from the date of Final acceptance certificate. In case any claim arising under this warranty, SPM will notify in writing and on receipt of such notice, the firm shall repair/replace the defective goods/parts and machine will make a ready within 7 working days. In case accumulation of breakdown with in warranty period is more than 30 days then warranty will extend further 12 (twelve) months.

FOR ITEM NO. 2: SUPPLY, INSTALLATION AND COMMISSIONING OF 3D CNC ENGRAVING AND MILLING MACHINE AT IGM, HYDERABAD

Technical Specification for the procurement of 3D CNC - Engraving and Milling Machine

Procurement of high precision 3D CNC Engraving and Milling machine with Digitizing System, with high resolution 4 axis track control, micro step operation for quick high feed rates with high accuracy. Built for specific purpose of engraving micro details on Die steel (60WCRV7) for manufacturing Dies, master punches etc. of Coining/ Stamping Dies.

The machine shall have the following features and technical specifications



Sr No	Function/ Requirements	Technical Specification/features
I.	Construction	<p>: Steel frame with Granite portal design, Machine enclosure with viewing windows and integrated chip pan prepared for wet processing</p> <p>High precision guide blocks, Axes driven by high-resolution servo motors, Inductive measuring systems in ball bearing guide for X, Y, Z, Drive resolution better than 0.1µm</p> <p>Minimum Work surface X x Y x Z 600 x 500 x 250 mm</p> <p>Clamping surface X x Y 700 x 670 mm</p> <p>Max. load (work piece and accessories) 300 kg</p> <p>3-jaw lever scroll chuck Ø 125 mm</p> <p>For stationary application on milling machine</p> <ol style="list-style-type: none"> 1. Cast iron body 2. Base plate 3. 1 set outward stepped jaws, assembled in chuck 4. 1 set inward stepped jaws
II.	Accuracy and repeatability	<p>: Positioning accuracy should be min. 0.005 mm (VDI/DGQ 3441 or as per ISO 230-2:2014) at 20°C</p> <p>Repeatability should be min. 0.002 mm (VDI/DGQ 3441 or as per ISO 230-2:2014) at 20°C</p>
III.	Feed rate	<p>: The CNC Engraving and Milling Machine must achieve the following travel speeds:</p> <p>Traversing speed feed max. 9 m/min</p> <p>Traversing speed quick motion max. 9 m/min</p> <p>The machine must be capable of a maximum acceleration of 1.7 meters per second squared (1.7 m/s²)</p>
IV.	CNC Control	<p>: High resolution 4 axis track control for engraving and milling machines. The dynamic micro step operation enables quick high feed rates with high accuracy.</p> <ol style="list-style-type: none"> 1. 5000000 encoder increments / rpm in servo operation 2. 4 axis servo and step motor in control cabinet casing 3. 32 digital in- and outputs 4. Servomotor operation 5. Encoder analysis in all axis 6. Swivelling control unit 7. Hand-held operator panel with hand wheel and keys for jog mode 8. Integrated safety control with speed-, shutdown- and spindle shutdown monitoring 9. Spindle rotation speed potentiometer with ±50% Override 10. Control elements: emergency shutdown, key switch, release probe, pushbutton Spray and hand-held operator panel



Sr No	Function/ Requirements	Technical Specification/features
		<p>Machine IPC Industrial PC with the latest Intel Processor Minimum 21.5” TFT Display with MultiTouch Latest Microsoft Windows</p> <p>3D Output Software 3D output and handling software under Microsoft® Windows for CNC Engraving and Milling machine.</p> <ol style="list-style-type: none"> 1. Very comfortable user interface under Microsoft® Windows 2. Context-supported help windows (Tooltip) 3. Mailbox function 4. Loading and reloading of CNC Output File 5. Positioning of the data sets as required (direction, rotation angle) 6. Multi-positioning 7. Easy co-ordination of tool sequences (multi-selection, delete, copy, insert, etc.) 8. Programming NC data and importing NC data according to DIN 66025 9. Automatic takeover of selected tool data possible from CAD / CAM software 10. Multiple outputs for different configuration of clampings. 11. Automatic passing of clamping devices 12. Optimized sorting of the fast speed positions (emerged surface tracks) for optimization of manufacturing time 13. Output from mark with marking function and milling simulation 14. Data output in layers 15. Various submerge strategies (e.g. spiral) also compatible with older data sets 16. Spindle RPM and feed programmable according to tools 17. Unique measuring of a Z-position (independent of tool) 18. Automatic edge probe for exact measuring, presupposes an edge probe 19. Tool requirement calculation 20. Tool exchange dependent on wear after tool-life cycle 21. Drilling cycles, Thread milling 22. Output of long signs (extending beyond the working surface of the machine) 23. Surface follow-up with integrated scanning function; presupposes edge probe 24. Network capability 25. Preview of Program 26. Automatic power-off after work end
V.	Spindle Package	<p>: The universal high frequency spindle quiet running, low maintenance and optimized for an automatic tool change with change cones. Change cones of different tool shank diameters within the tool changer. The frequency converter - perfectly adapted to the efficiency of the spindle completely integrated in the Control. The possibility of a program-controlled choice of the speed. Spindle suitable for the engraving of steel, nonferrous heavy metal, aluminium, plastic and wood etc..</p> <ol style="list-style-type: none"> 1. Tool change, controlled electro-pneumatic, for the operation with tool changing systems



Sr No	Function/ Requirements	Technical Specification/features
		<ol style="list-style-type: none"> 2. Service free hybrid ball bearings 3. Permanent sealing air for the protection of all sensitive parts 4. For collet chuck for up to Ø 6 mm Tool 5. Spindle rotation 5,000 - 60,000 rpm 6. Including clamping device, wrench and service-set 7. Liquid cooling (Compressor cooler) for spindle cooling.
VI.	Pick-up tool changer	<p>Tool changing system for minimum 16 changing stations. Automatic tool changes for man less operation</p> <ol style="list-style-type: none"> 1. Minimum 16 Changing stations must be selected to match the tool holder 2. Integrated automatic tool length measurement 3. Chip protection through a fully automatic protective cover 4. Chip protection pneumatically driven and end positions electrically monitored. 5. Change station with change cones for each station including collet adjusting Nut 6. Collets for 3mm tool size – 2 nos 7. Collets for 4mm tool size – 6 nos 8. Collets for 6mm tool size – 8 nos 9. Clamping Key – 4 Nos
VII.	Spray device	<p>Special cooling and lubricating microjet device applying the minimum quantity The lubricant has to be sprayed exactly into the effective area of the work piece or the tool for longer tool life and a high quality even surface.</p>
VIII.	Edge probe	<p>Edge probe including setup mandrel and connection box The 2.5D edge ball point probe switch. To determine a reference point and control the following functions:</p> <ol style="list-style-type: none"> 1. Fin Centre line of the fin as reference 2. Slot Centre line of the slot as reference 3. Interior/ Exterior edge 4. Drilled hole Centre of circle as reference point 5. Exterior diameter Centre of circle as reference point 6. Edge in X or Y Edge of work piece as reference line 7. Side surfaces in X or Y, Probe of Z Calibration 8. Installation pin 9. Wooden case 10. Pin length: 30 mm, ball diameter: 5 mm
IX.	CAD PC	<p>Branded PC/Workstation preferably, HP/DELL/equivalent Including high end Monitor latest available high end model according to the Compatibility with preinstalled software's with lifetime licence.</p>
X.	CAD+Design, Software package	<p>All in One Software 64-Bit software for designing, text vector graphics, raster graphics etc.. with following functions Program functions</p> <ol style="list-style-type: none"> 1. Object-oriented set-up of operating logic and programming 2. Whether conventional engraving and milling jobs or complex 3D laser jobs - the appropriate creation of CAM data for every system 3. Simultaneous creation of several different engraving and milling strategies (2D, 2 ½ D, 3 D) without any complicated calculation and saving of single working steps 4. Integrated libraries ranging from logos, clippings, strokes up to complete machining strategies with by Drag n Drop feature



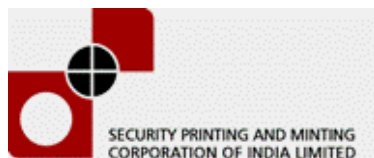
Sr No	Function/ Requirements	Technical Specification/features
		<ol style="list-style-type: none"> 5. Drawing and typographic drafting tools- Mouse operated snap function, Subsidiary lines, Grid 6. Pallets for WYSIWYG (What you see is what you get) processing of texts and graphic elements. 7. Custom tool bars 8. Projection onto ruled surfaces (sphere, cylinder, taper, barrel, torus, parabolic, and string- Support of different modes Parallel projection, Flank-Corrected projection, Cutter radius-corrected surface 9. Layer support, CAD-Layer for the construction of 2D/3D data, CAM-Layer for the reception of calculated data, Definition-Layer for determination of projection surface, Projection-Layer for reception of projected data Clearing-Layer 10. Scale assistant for easy construction of many different types of scale 11. Better cutter radius-correction. Angular cutters and combinable 2D/3D strategies within a CAM calculation 12. Extended working strategies for the calculation of CAM data 13. Access to all TTF-Fonts installed on the system 14. Processing and creation of fonts 15. Layer independent grouping of data 16. Matrix function (multiple insert) 17. Moving, scaling, rotating - absolute, incremental and percentile 18. Hatching of surfaces 19. Different functions for intersection of data 20. Work pieces definition, i. e. position and dimensions of work piece 21. Measuring function for the control of existing data 22. Online-help in HTML-Format as well as the tip of the day 23. 3D display of data 24. MDI- Multiple Document Interface 25. Imports of vector graphics - DXF (min. up to AutoCAD 2007, AC 1021), HPGL (2D), IGES (vectors), WMF, EMF, AI (Vectors), EPS (by Ghostscript), PS, DIG, SOR, OLE-Server, ISO (DIN 66025) 26. Imports of raster graphics - TIFF, BMP, PCX, GIF, JPG 27. Exports DXF (min. up to AutoCAD 2007, AC 1021), HPGL (2D), IGES (vectors), AI (vectors), SOR, DIG, ISO (DIN 66025) 28. SCAN-Module- Twain-Interface, Vectoring with smoothing (adjustable), Automatic correction of scanner tolerances, Thinning function
XI.	Relief Designing/ Sculpting	<p>Extremely powerful 64-bit software for relief designing, relief machining and the production of milling data compatible with other software's of this machine.</p> <p>A. Relief designing:</p> <ol style="list-style-type: none"> 1. Relief designing by intersection lines inside/outside the boundary curves 2. Relief designing by intersection lines along assisting lines 3. Relief designing between two contours 4. Geometrical basic bodies and intersection line based bodies 5. Linking of (partial) reliefs 6. Relief textures 7. Borders along contours



Sr No	Function/ Requirements	Technical Specification/features
		<p>8. Management of the designing steps in CAD-tree 9. Surface recalculation from milling data</p> <p>B. Processing functions:</p> <ol style="list-style-type: none"> 1. Selection of individual relief points or an relief area 2. Modification of the Z values (individual points, selected areas) 3. Various filter functions (total relief, selected areas) 4. Raising/lowering of relief areas 5. Horizontal alignment based on individual points or selected areas 6. Calculation of Z values for other relief resolutions 7. Relief transformation (Mirroring, Rotating, Moving, Scaling, Shearing, Arc) 8. Relief folding (cylinder, truncated cone) <p>C. Generation of milling data:</p> <ol style="list-style-type: none"> 1. Clearing areas: Circular or rectangular areas, selected areas 2. Data generation for spherical, cylindrical or conical tools 3. Layered milling 4. Simple entry of parameters with the CAM assistant / CAM tree <p>D. Comfortable display functions:</p> <ol style="list-style-type: none"> 1. Grey steps 2. Rainbow view 3. Isohypsyes view 4. Lighting simulation <p>E. Interfaces:</p> <ol style="list-style-type: none"> 1. Surfaces: STL or any other relevant formats. 2. Heights as grey scales for photo software (*.TIF) 3. Contours: DXF (min. up to AutoCAD 2007, AC1021), IGES (vectors), AI (vectors), ISO (DIN66025), SVG , or any other relevant formats 4. Output of milling data: ISO (DIN66025), DIG, or any other relevant formats <p>F. Miscellaneous:</p> <ol style="list-style-type: none"> 1. MDI user interface for editing multiple reliefs 2. Visualization of the relief as a contour diagram and 3-D view 3. User interface optional configurable for touchscreen operation 4. Drag n Drop (e.g. to open files) 5. Calculation and display of animated sequences.
XII.	Digitizing System	<p>The universal unit to scan and digitize 3D free-form surfaces and relief Models perfectly aligned to highest Scan demands. With High Dynamic linear motor axis, a Y-Z portal for fixing different sensor systems (digital, mechanical measuring sensor, optical distance sensor) as well as the latest version of the Digitizing software package capable of executing the most complex digitization within the shortest possible time. The activation of the scanner controlled via a PC with innovative and user friendly touch operation. Breadboard bore holes in the table for flexibility when clamping the models.</p> <ol style="list-style-type: none"> 1. Clamping table with movement range (X) 400 mm 2. Portal axis for scanning laser with (Y, Z) 400 x 150 mm 3. Scanning area (X, Y) from 300 up to 397 mm (depends on scan resolution) by 400 mm Machine enclosure with viewing windows 4. Maximum load of the table: 20 kg 5. Clamping possibility with breadboard bore holes M6, grid spacing 75mm



Sr No	Function/ Requirements	Technical Specification/features
		<p>6. Laser system with protection class 2 7. Laser Displacement sensor 8. Motor control unit 9. Maximum machine speed: 800 mm / s 10. Maximum acceleration: 10 m/ s² at 3 kg load 11. Electrically adjustable z-axis in connection with recognition of an automatic detection of the measuring range and the pseudo measuring range 12. Mains supply: 230 V/16A 13. Supply voltage: (AC) 230V /16A / 50-60 Hz /max. 1.2kVA 14. A suitable The base frame consisting of a welded steel design in order to guarantee the stability of the digitizing system</p> <p>A. Machine Industrial-PC Branded PC/Workstation preferably, HP/DELL/equivalent Including high end Monitor latest available high end model according to the Compatibility with preinstalled software's with lifetime license.</p> <p>B. Digitizing software Program for the digitizing of models</p> <ol style="list-style-type: none"> 1. 3D Digitization of free form surfaces 2. Desired X, Y resolution through the software as per user input 3. Select and digitize concept 4. Handy function for selecting relief points 5. Digitization report 6. Digitization summary in relief 7. User-friendly wizards and dialogs 8. Verify Z position of digitization dialog 9. Automatic and manual movement of machine axis with software and joystick 10. Digitization is possible in different shapes - Rectangle, Circle or Polygon 11. Digitization area to be entered through keyboard or by "Teach-In" with laser 12. Automatic saving of the surface data after digitization 13. Possibility of exporting as STL data record 14. Possibility of saving and reloading all parameters of a digitization 15. Actual measuring range (Focus position of sensor) to be found automatically 16. Several different materials to be digitized in a sequential order in a single start 17. Auto exposure function 18. Automatic power-off after work end <p>C. Processing functions</p> <ol style="list-style-type: none"> 1. Marking of individual relief points or relief areas 2. Modification of the scanned values (individual points, marked areas) 3. Various filter functions (total relief, marked areas) 4. Raising/lowering of relief areas 5. Horizontal alignment based on individual points or marked areas 6. Calculation of scanned values for other relief resolutions



Sr No	Function/ Requirements	Technical Specification/features
		<p>7. Relief transformation (Mirroring, Rotating, Moving, Scaling, Shearing, Inverting)</p> <p>8. Relief processing (circular arc, cylinder, truncated cone)</p> <p>D. Interfaces</p> <ol style="list-style-type: none"> 1. Areas: relief/3D formats STL or any other relevant formats 2. Heights as gray scales Format for photo software (*.TIF or any other relevant formats) 3. Contours: Vector formats- SVG, AI or any other relevant formats <p>E. Comfortable display functions</p> <ol style="list-style-type: none"> 1. Grey steps 2. Rainbow view 3. Isohypsers view 4. Lighting simulation <p>F. Laser compact displacement sensor with integrated controller, measuring range: 10 mm</p> <ol style="list-style-type: none"> 1. For Measuring range: 2mm 2. For Measuring range: 10mm 3. For Measuring range: 20mm

XIII. **Installation and commissioning:** Unpacking, Installation and Commissioning, functional checks have to be done by the service technician/engineer of the vendor. All required consumables, tools & tackles and spares that are required for proper installation & commissioning shall be provided by the bidder.

XIV. **Pre Dispatch Inspection:** The Pre-Dispatch Inspection (PDI) will be thoroughly conducted to evaluate the CNC Engraving and Milling Machine's performance against the following critical parameters, to check the functionality and all technical parameter outlined in technical specifications meets for minimum 4 days for 3 IGMH officials at the factory of the machine supplier:

During the Inspection, the following parameters will be monitored and recorded mainly:

- **Engraving Efficiency, Precision, Surface Finish, Material Compatibility, and Positional Accuracy.** The machine's ability to engrave two die samples (27mm and 44mm diameter) in under 8 hours each for a 0.3mm depth will be assessed.
- This evaluation will encompass:
 - o Productivity: Meeting the specified timeframe for engraving both dies.
 - o Engraving Precision: Achieving fine details and sharp edges on the coin dies, adhering to or surpassing design tolerances.
 - o Surface Finish: Delivering a smooth engraved surface free of visible defects or irregularities.
 - o Material Compatibility: Consistently and effectively engraving the hardened Die Steel (60WCRV7) without causing material damage or distortion.
 - o Positional Accuracy: Maintaining consistent and precise positioning of the engraving tool throughout the machining process, ensuring accurate dimensions and detail placement.



- Repeatability: The machine's ability to repeatedly achieve the same level of positional accuracy during multiple engraving runs of the same die will be tested. This ensures consistent results and minimizes the risk of errors.
- Software Flexibility: The software's ease of use for design customization and management.

I. FAT – Factory or Site or Final acceptance test

The 3D CNC Engraving and Milling machine system will be considered accepted if it meets the following criteria along with the technical specification mentioned as above:

1. Final acceptance of the machine will be contingent upon successful completion of installation, commissioning, operator training, and a satisfactory test run.
2. The Machine shall be operated continuously for 5-6 jobs and the relief structures shall be analysed for consistency and accuracy.
3. The material to be engraved shall be Die Steel (60WCRV7)/Tool Steel/ Cold Work steel/ HSS
4. During the test, the following parameters will be monitored and recorded:
 - a. Functionality: All system components operate according to the technical specifications.
 - b. Performance: The system achieves the specified quality.
 - c. Safety: The system incorporates all necessary safety features and operates safely.
 - d. Positional Accuracy: The machine shall achieve a minimum positional accuracy of 0.005 mm when evaluated according to ISO 230-2:2014 or VDI/DGQ 3441.
 - e. Repeatability: The machine shall demonstrate a minimum repeatability of 0.002 mm according to ISO 230-2:2014 or VDI/DGQ 3441.
 - f. Acceptance criteria for both repeatability (standard deviation) and positional accuracy (mean position deviation) based on ISO 230-2:2014 or VDI/DGQ 3441.
 - g. The vendor shall provide a high-precision measuring instrument, such as a laser interferometer, with a resolution better than 0.001 mm for conducting the ISO 230-2:2014 or VDI/DGQ 3441 tests. And the vendor is responsible for ensuring the measuring equipment meets the required specifications and is properly calibrated (Calibration certificate NABL lab shall be produced)
5. All components pass the visual inspection and function according to the technical specifications.
6. All required documentation is provided.
7. The control panel displays accurate readings and alarms function properly.
8. Cooling system functions effectively without leaks.

(a) **Special Condition:** "If the Final Acceptance Test (FAT) has not been achieved due to reasons attributable to the supplier, the supplier will be responsible for undertaking the necessary rectifications and modifications to the delivered parts wherever required. The firm shall then recall for a fresh FAT."

(b) **Warranty:** "The firm shall provide qualitative, operational, and performance onsite warranty for at least one year from the date of the Final Acceptance Certificate. In case any claim arises under this warranty, SPM will notify in writing. Upon receipt of such notice, the firm shall repair/replace the defective goods/parts and make the machine ready within 7 working days. If the cumulative breakdown period within the warranty period exceeds 30 days, the warranty will be extended by an additional 12 (twelve) months."



II. Training at site:

1. The firm shall provide training for four persons in operations and four persons from maintenance for 3 working days during installation and commissioning.
2. The firm must train on the following Subjects:
 - a. System components / System configuration
 - b. Safety instruction
 - c. Operation of the machine
 - d. Production setup
 - e. All Software modules
 - f. Maintenance instruction (preventive maintenance), trouble shooting, breakdown maintenance, checklist for operation and maintenance

III. Technical Documentation:

1. All documentations to be provided in English.
2. Documentation of all Software modules.
3. All software to be provided in soft copies for backup.
4. Hard & soft copy of operation manuals including the details of equipment with trouble shooting, maintenance procedure and instructions for preventive maintenance including the details drawing of equipment, as well as soft copy of as built circuit diagram, test certificates and manuals of electrical equipment.
5. Certificate of calibration wherever applicable shall be provided by the successful bidder.
6. Detailed Layout Drawings: The customer is responsible for providing detailed layout drawings that specify the placement of the equipment, power supply etc. These drawings should ensure adequate clearance for operation and maintenance.
7. CE conformity certificate (or relevant Indian equivalent) ensuring the machine meets safety regulations
8. Electrical Connections: Specifications for electrical connections, including voltage, phase, frequency, and power consumption requirements. Wiring diagrams illustrating the connections for power supply, emergency stop circuits, limit switches, and safety interlocks. Guidelines for proper grounding and electrical safety precautions to prevent electrical hazards and ensure compliance with local regulations.
9. Tools Details: Catalogues, specifications for tools and cutting implements used with the CNC Engraving and Milling Machine, including end mills, drills, reamers, and engraving bits. Information on tool holders, collets, and tool changing systems compatible with the machine's spindle interface. Guidelines for selecting the appropriate tools based on material type, cutting requirements, and machining parameters.
10. Consumables Details with Specifications: Specifications for consumable materials used in machining operations, such as lubricants, coolants, abrasives, and cutting fluids. Material safety data sheets (MSDS) for consumables detailing hazards, handling precautions, and disposal guidelines. Recommended consumable quantities, replenishment schedules, and storage requirements to maintain machine performance and longevity.
11. Details of Electronic Components: Specifications for electronic components integrated into the CNC Engraving and Milling Machine, such as servo motors, controllers, sensors, and actuators. Datasheets for electronic components providing technical specifications, operating parameters, and interface requirements. Wiring diagrams and connection schematics for electronic components, including signal routing, voltage levels, and communication protocols.
12. Troubleshooting Details: A detailed troubleshooting guide outlining common issues, symptoms, and potential causes related to the CNC Engraving and Milling Machine and its auxiliary units. Troubleshooting flowcharts or decision trees to assist operators and



maintenance personnel in diagnosing problems and implementing corrective actions. Recommended troubleshooting procedures, including step-by-step instructions, error code interpretations, and fault isolation techniques.

13. **Troubleshooting Manual:** A comprehensive troubleshooting manual compiling troubleshooting details, procedures, and best practices in a user-friendly format. Organized sections or chapters covering different categories of issues, such as mechanical, electrical, software, and operational problems. Illustrative examples, case studies, or real-world scenarios to enhance understanding and application of troubleshooting techniques.
14. **Operational and Maintenance Checklist:** An operational checklist outlining pre-operation, during-operation, and post-operation tasks to ensure safe and efficient machine operation. Maintenance checklist covering routine maintenance activities, inspections, lubrication schedules, and cleaning procedures for all machine components. Checklists tailored to specific machine modes, functions, or production scenarios to address unique operational requirements.
15. **Maintenance Schedule:** A maintenance schedule outlining recommended maintenance tasks, intervals, and frequencies based on machine usage, operating conditions, and manufacturer recommendations. Scheduled maintenance activities categorized by daily, weekly, monthly, quarterly, semi-annual, and annual intervals for systematic maintenance planning. Guidelines for preventive maintenance tasks, predictive maintenance techniques, and condition-based maintenance strategies to optimize machine reliability and performance over time.

- IV. **Spares:** Firm should quote the list of spares, consumable etc. with price valid for next two years. To be quoted separately, it will not be considered while deciding L1 firm. Spare parts catalogue with comprehensive listings and part numbers to be provided for easy ordering. Optional AMC cost for next Five years after the completion of Warranty period.

Spare Parts Details and Drawings: Catalogs or lists of spare parts for the CNC Engraving and Milling Machine, organized by assembly or component. Engineering drawings or diagrams depicting spare parts assemblies, part numbers, dimensions, and material specifications. Guidelines for inventory management, including stocking levels, reorder points, and procurement procedures for replacement parts.

- V. **Warranty, Service and Support:** The supplier must provide warranty for a minimum of 12 months (1 year) against defects in materials and workmanship and after-sales service and support for minimum five years within India, including Availability of spare parts to minimize downtime in case of repairs, Access to technical assistance from qualified personnel for troubleshooting and maintenance after issuing of FAC.

VI. **Other Specifications/requirements:**

1. **Materials and Construction:** materials used in the construction of the machine shall ensure compliance with environmental standards (ISO). Certifications verifying that materials are sourced ethically and sustainably, aligning with ISO standards for responsible sourcing. Documentary proofs shall be submitted at the time of FAT. The machine shall have all the safety features to protect the man and material from electrical, Heat /Temperature, rotating/moving parts/bodies, explosion hazards. All hazardous locations shall bear necessary stickers as per relevant IS standards.
2. The machine shall have necessary safety switches, sensors, Emergency stops and safety guards from Safety Point of view.
3. The machine shall be sturdy, vibration free, latest state of the art technology.



4. All the electrical devices shall be energy efficient, easy to maintain and of latest technology proven in the market and not on the verge of obsolescence.
5. IGMH shall Provide Supply of Electricity, air and water. All the auxiliaries, Consumables and accessories require running the Machine shall be in the scope of the supplier.
6. The machine shall have all the safety features to protect the man and material from electrical, Heat /Temperature, rotating/moving parts/bodies, explosion hazards. All hazardous locations shall bear necessary stickers as per relevant IS standards.
7. The machine shall have necessary safety switches, sensors, Emergency stops and safety guards from Safety Point of view.
8. The Machine should be suitable for continuous operation to its capacity for 24 X 7.
9. Acoustic noise protection to reduce noise pollution by <75dB around the work zone if required.
10. Any civil structural work required for installation of the machine, Earth pit required for machine is in the scope of the supplier.
11. The machine shall have facility of remote maintenance as and when required by IGMH.
12. The machine must comply with all relevant safety regulations for the region of operation.
13. All necessary documentation, including user manuals, maintenance manuals, and spare parts catalogues, must be provided in English.

Special Condition: "If the Final Acceptance Test (FAT) has not been achieved due to reasons attributable to the supplier, the supplier will be responsible for undertaking the necessary rectifications and modifications to the delivered parts wherever required. The firm shall then recall for a fresh FAT."

Warranty: "The firm shall provide qualitative, operational, and performance onsite warranty for at least one year from the date of the Final Acceptance Certificate. In case any claim arises under this warranty, IGMH will notify in writing. Upon receipt of such notice, the firm shall repair/replace the defective goods/parts and make the machine ready within 7 working days. If the cumulative breakdown period within the warranty period exceeds 30 days, the warranty will be extended by an additional 12 (twelve) months."

FOR ITEM NO. 3: SUPPLY, INSTALLATION AND COMMISSIONING OF 3D CNC ENGRAVING & MILLING MACHINE and SCANNING MACHINE AT IGM, MUMBAI

1. Technical Specification for the procurement of 4-Axis CNC Milling & Engraving Machine and Scanning Machine

A) CNC – Engraving and Milling Machine:

The CNC engraving and machine should be with state of the art standards which can be used for exact reproducibility of embossing dies on die steel as per the designs.

1. The working area of machine (min): 600 x 400x 250 mm (in X, Y, Z direction) Vacuum clamping system with vacuum unit for secure clamping of work pieces which shall capable to hold very small work piece (up to 50mm x 50 mm) too with an overall tolerance $\pm 0.02 \mu\text{m}$.
2. Repeatability accuracy (min): $\pm 2 \mu\text{m}$ and Positional accuracy (min): $\pm 5 \mu\text{m}$ (for both accuracy: VDI/DGQ 3441 or as per ISO 230-2:2014)
3. Resolution of axis: $0.1 \mu\text{m}$ (Maximum or better) for all axis.
4. Traversing speed feed is minimum 8m/min & Traversing speed quick motion minimum 8m/min.
5. Control Unit: hand held operator panel along with user friendly 3D output and handling software Automatic tool changing and Automatic shutdown of machine after completion of work.



6. Spindle package: The sound of spindle during operation should be < 75 db the spindle to be optimized for an automatic tool change cones and spindle speed between 5,000 to 60000 rpm or better. Spindle revolutions and feed rate programmable according to design requirement. Suitable cleaning mandrel to be provided with in the spindle. Spindle to be provided with adequate collect & collect chuck .
7. Tool changing system to collets for spindle: Automatic tool changing station at least 16 tool change station, Tool length sensor to provide for automatic tool length correction. Integrated automatic tool length measurement. Collets for 3mm tool size – 2 nos, Collets for 4mm tool size – 2 nos, Collets for 6mm tool size – 4 nos, Clamping Key – 4 Nos of suitable High Speed steel or Carbide tools for rough cutting/fine cutting/very fine cutting upto 0.2 mm. Toll changing station to be covered with auto operated cover.
8. Engraving and Milling Machine must be compatible with Scanning Machine and have synchronization with Scanning Machine.
9. Secured interface for selection of data from CAD/CAM Software.
10. Machine needs to have high accuracy, high speed and high resolution.
11. It shall have constant milling track speed, independent of milling direction.
12. Efficient control software to simplify input of engraving and milling tracks.
13. A machine shall be complete with required operating software, machine software, hardware, fixtures, controls and auxiliary equipment, design CAD/CAM software's. At least 1-year license version of Photoshop software must be providing and installed in designing PC.
14. 4-Axis machine e.g. X,Y and Z axis mounted on machine structure and A- axis for engraving on cylindrical objects (concave & convex surface.)
15. Dimensions of embossing dies to be engraved:
 - a) Maximum diameter: 90mm
 - b) Block height: 55mm
 - c) Relief height: 0.02mm to 0.8mm
16. The provision of auto tool changer minimum 06 numbers.
17. 3D Output and handling software under Microsoft under Microsoft Windows or other user friendly operating system.
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. The machine should have enclosure with viewing windows and proper lighting.
21. High precision guide block to be provided in guiding system at all levels.
22. Complete cover to provide for guide ways and lead screw.
23. Axes driven by high resolution servo motors.
24. Provide industrial grade PC with latest hardware & software (OS) to run the CNC engraving machine.
25. Hand held operator panel to be provided with hand wheel & keys for ease operation of CNC machine (X, Y, Z direction moving with speed control; Spindle rpm control; pneumatic control; tool tray opening control; spindle emergency stop; machine emergency shutdown.)
26. A suitable indoor location cooling unit to be provided for spindle as follows:
 - i) Status monitoring display unit (i.e. overheat, flow rate, any other failure etc.)
 - li) Cooling media level indicator to be provided.

B) Scanning Machine:

1. A separate scanning machine shall be suitable for exact digitization of object (normally negatives of sculptures 3D models) under scanning.
2. Scanning area: approximately 400mm x 400mm
3. It shall have handy functions for selecting relief points.
4. Recommended scanning resolution: from 10micro meter or better.



5. Provision for installing different range lenses for scanning the data
6. The digitization summary shall be in Relief user friendly wizard and dialogues.
7. Scanner shall be able to do digitization of different shapes like rectangular, circular or polygon.
8. A facility to enter digitization area through keyboard or by "Teach In" with Laser. After digitization the surface data shall be saved automatically. The saved file must be compatible for design software of CNC engraving machine.
9. Allow handling CAD/CAM data in machine required format for further processing.
10. Facility to save and reload all parameters of digitization
11. It shall automatically detect actual measuring range (focus position of sensor).
12. It shall be complete with required operating software, machine software, hardware, fixtures, controls and auxiliary equipment's.
13. It shall have suitable standalone industrial PC with latest hardware and interface required software's for Operators final touch to scanned soft images received from digitization machine before sending to milling/engraving/lettering jobs.
14. The machine should have enclosure with viewing windows and proper lighting.
15. The machine to be provided upon a suitable base frame.

2. GENERAL SPECIFICATIONS:

- i) NC/PLC control, Automatic fault diagnosis, troubleshooting and monitoring of the various process should be highly reliable.
- ii) A control system should be interactive with visual aids, menu driven and operator friendly.
- iii) The machine shall have facility of remote maintenance (wherever feasible) as and when required by India Government Mint, Mumbai.
- iv) Safety features & suitable Fault finding system shall be provided.
- v) All the electrical devices shall be energy efficient, easy to maintain and of latest technology proven in the market and not on the verge of obsolescence.
- vi) India Government Mint, Mumbai shall Provide Supply of Electricity and water. All the auxiliaries and accessories require for operating the machine shall be in the scope of the supplier.
- vii) Acoustic Noise Protection (< 75 DB) shall be provided.
- viii) Ambient condition: 45°C, Rh: 95% max.
- ix) Main operating & control panel with Air conditioning shall be provided.
- x) Machine should be Energy efficient, maintaining power factor of more than 0.9 and should comply with BEE guidelines.
- xi) Pneumatic system if any shall be able to operate smoothly with the pressure of 5 to 6 bar compressed air.
- xii) Accessories: Chiller unit for oil cooling is required with display of inlet and outlet oil temperature.
- xiii) Centralized automatic Lubrication system shall be provided along with the machine. The system shall be total with coverage to all required points with proper filtration system for re-circulation of lubricant oil. There shall be a separate tank for this system.
- xiv) Bidder should provide sales and service support including supply of spares and consumables for minimum 10 years from the date of Final Acceptance Certificate (FAC).
- xv) Anti-vibration pads for base of the machine must be supplied by the firm, if required.
- xvi) All structural work such as making supporting structure/Foundation breaking, laying of pipe / cable trenches will be scope of bidder.
- xvii) Any other work not specifically mentioned in this tender but required to execute the project will be scope of supplier.



3. SPARE PARTS AND CONSUMABLES:

- i) All services and spares parts required during warranty period are to be supplied FREE OF COST by the successful bidder.
- ii) Successful bidder shall provide list of spares and consumables required for Five (5) years from date of Final Acceptance Certificate (FAC) along with its rates. However, these rates will not be considered while deciding L1.
- iii) Rates of Annual Comprehensive Maintenance of the machine after warranty period are to be quoted separately by the bidders.

4. PRE DISPATCH INSPECTION:

The Pre-Dispatch Inspection (PDI) will be thoroughly conducted to evaluate the CNC Engraving & Milling Machine and Scanning performance against the following critical parameters, to check the functionality and all technical parameter outlined in technical specifications meets for minimum 4 days for 3 IGMM officials at the factory of the machine supplier:

During the Inspection, the following parameters will be monitored and recorded mainly:

- **Engraving Efficiency, Precision, Surface Finish, Material Compatibility, and Positional Accuracy.** The machine's ability to engrave two die samples (27mm and 44mm diameter) in under 8 hours each for a 0.3mm depth will be assessed.
- This evaluation will encompass:
 - o Productivity: Meeting the specified timeframe for engraving both dies.
 - o Engraving Precision: Achieving fine details and sharp edges on the coin dies, adhering to or surpassing design tolerances.
 - o Surface Finish: Delivering a smooth engraved surface free of visible defects or irregularities.
 - o Material Compatibility: Consistently and effectively engraving the hardened Die Steel (60WCRV7) without causing material damage or distortion.
 - o Positional Accuracy: Maintaining consistent and precise positioning of the engraving tool throughout the machining process, ensuring accurate dimensions and detail placement.
 - o Repeatability: The machine's ability to repeatedly achieve the same level of positional accuracy during multiple engraving runs of the same die will be tested. This ensures consistent results and minimizes the risk of errors.
 - o Software Flexibility: The software's ease of use for design customization and management.
 - o Scanning of at least FOUR (4) No. POP Images (negatives of sculptures 3D models) shall be done in scanning machine.

5. FINAL ACCEPTANCE TEST (FAT):

I. FAT – Factory or Site or Final acceptance test

The 3D CNC Engraving & Milling machine system and Scanning machine will be considered accepted if it meets the following criteria along with the technical specification mentioned as above:

1. Final acceptance of the machine will be contingent upon successful completion of installation, commissioning, operator training, and a satisfactory test run. FAT will be



- carried out in presence of bidder's representative/engineer for five (5) working days (with 8 hours working) at installation site as per the specifications and quality parameters for individually and combine.
2. The Machine shall be operated continuously for 5-6 jobs and the relief structures shall be analyzed for consistency and accuracy.
 3. The material to be engraved shall be Die Steel (60WCRV7)/Tool Steel/ Cold Work steel/ HSS
 4. During the test, the following parameters will be monitored and recorded:
 - a. Functionality: All system components operate according to the technical specifications.
 - b. Performance: The system achieves the specified quality.
 - c. Safety: The system incorporates all necessary safety features and operates safely.
 - d. Positional Accuracy: The machine shall achieve a minimum positional accuracy of 0.005 mm when evaluated according to ISO 230-2:2014 or VDI/DGQ 3441.
 - e. Repeatability: The machine shall demonstrate a minimum repeatability of 0.002 mm according to ISO 230-2:2014 or VDI/DGQ 3441.
 - f. Acceptance criteria for both repeatability (standard deviation) and positional accuracy (mean position deviation) based on ISO 230-2:2014 or VDI/DGQ 3441.
 - g. The vendor shall provide a high-precision measuring instrument, such as a laser interferometer, with a resolution better than 0.001 mm for conducting the ISO 230-2:2014 or VDI/DGQ 3441 tests. And the vendor is responsible for ensuring the measuring equipment meets the required specifications and is properly calibrated (Calibration certificate NABL lab shall be produced).
 - h. Scanning of at least (FOUR) 4 No. POP Images (negatives of sculptures 3D models) shall be done at scanning machine.
 5. The date of FAT will be decided on mutual agreement.
 6. During period of FAT, the firm has to depute their Engineer for monitoring and recording the test result.
 7. Performance test shall be carried out for all functional, quality, operational and safety interlock check by the successful bidder for the machine.
 8. Acoustic Noise level < 75db is to be verified during FAT.
 9. Final Acceptance Certificate (FAC) shall be issued after successful FAT.
 10. All components pass the visual inspection and function according to the technical specifications.
 11. All required documentation is provided.
 12. The control panel displays accurate readings and alarms function properly.
 13. Cooling system functions effectively without leaks.

II. Training at site:

1. The firm shall provide training for four persons in operations and four persons from maintenance for 3 working days during installation and commissioning.
2. The firm must train on the following Subjects:
 - a. System components / System configuration
 - b. Safety instruction
 - c. Operation of the machine
 - d. Production setup
 - e. All Software modules
 - f. Maintenance instruction (preventive maintenance), trouble shooting, breakdown maintenance, checklist for operation and maintenance



6. DOCUMENTATION:

- i) Successful bidder will have to provide softcopy and 3 Nos. hard copies (in English) of Electrical Circuit Diagram complete with PLC ladder diagrams, drive parameters, interfacing drawing etc. along with detailed spare parts list and product catalogue of major equipment.
- ii) Successful bidder will have to provide backup copies of software of operating system, machine programs, any PLC Controller (Micro/ PID/Temperature) and drives installed on the machine for trouble shooting of faults by India Government Mint, Mumbai.
- iii) Successful bidder will have to provide soft and 3 (Three) Nos. of hard copies of Operating and Maintenance manual (Mechanical, Hydraulic & Pneumatic) in English along with spare part catalogue, drawings.
- iv) Successful bidder will have to provide foundation and machine lay out drawing including electrical cable/air/oil and water trench details.
- v) For Operator convenience, bidder will have to provide operation Manual with pictorial view of each window along with description.
- vi) Certificate of calibration wherever applicable shall be provided by the successful bidder.
- vii) Detailed Layout Drawings: The customer is responsible for providing detailed layout drawings that specify the placement of the equipment, power supply etc. These drawings should ensure adequate clearance for operation and maintenance.

7. INSTALLATION, STARTUP AND TRAINING:

- i) Successful bidder shall include installation, testing commissioning and successful trial run of the machine as per the specification at work site of purchaser.
- ii) All structural work such as making supporting structure/Foundation breaking, laying of pipe / cable trenches will be scope of bidder.
- iii) Successful bidder shall provide the onsite training to India Government Mint, Mumbai employee for 6 working days (8 hours per shift) at respective machine installation site after successful commissioning of the machine.

SIGNATURE OF BIDDER WITH
NAME, DESIGNATION & SEAL



Section VIII: Quality Control Requirements

As per Section - VII of the tender document



Section IX: Qualification/ Eligibility Criteria

FOR ITEM NO. 1, 2 & 3

Experience & Past Performance :

The bidder shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Milling Type CNC Engraving Machine with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Capability - Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least two number of Milling Type CNC Engraving Machine.

Financial Standing :

The average annual financial turnover of the bidder firm during the last three years, ending on 31.03.2023, should be at least Rs. 4,37,72,994/- as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India or equivalent in relevant countries.

The net worth of the firm should

- a. not be negative on 31.03.2023 and
- b. not have eroded by more than 30% in the last three years, ending on 31.03.2023.

FOR ITEM NO. 1

Experience & Past Performance :

The bidder shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Milling Type CNC Engraving Machine with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Capability - Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least one number of Milling Type CNC Engraving Machine.

Financial Standing :

The average annual financial turnover of the bidder firm during the last three years, ending on 31.03.2023, should be at least Rs. 1,11,02,710/- as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India or equivalent in relevant countries.

The net worth of the firm should

- a. not be negative on 31.03.2023 and
- b. not have eroded by more than 30% in the last three years, ending on 31.03.2023.



FOR ITEM NO. 2

Experience & Past Performance :

The bidder shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Milling Type CNC Engraving Machine with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Capability - Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least one number of Milling Type CNC Engraving Machine.

Financial Standing :

The average annual financial turnover of the bidder firm during the last three years, ending on 31.03.2023, should be at least Rs. 1,70,30,285/- as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India or equivalent in relevant countries.

The net worth of the firm should

- a. not be negative on 31.03.2023 and
- b. not have eroded by more than 30% in the last three years, ending on 31.03.2023.

SIGNATURE OF BIDDER WITH
NAME, DESIGNATION & SEAL

FOR ITEM NO. 3

Experience & Past Performance :

The bidder shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Milling Type CNC Engraving Machine with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Capability - Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least one number of Milling Type CNC Engraving Machine.

Financial Standing :

The average annual financial turnover of the bidder firm during the last three years, ending on 31.03.2023, should be at least Rs. 1,56,40,000/- as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India or equivalent in relevant countries.

The net worth of the firm should

- a. not be negative on 31.03.2023 and
- b. not have eroded by more than 30% in the last three years, ending on 31.03.2023.



FOR ITEM NO. 1 & 2

Experience & Past Performance :

The bidder shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Milling Type CNC Engraving Machine with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Capability - Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least one number of Milling Type CNC Engraving Machine.

Financial Standing :

The average annual financial turnover of the bidder firm during the last three years, ending on 31.03.2023, should be at least Rs. 2,81,32,990/- as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India or equivalent in relevant countries.

The net worth of the firm should

- a. not be negative on 31.03.2023 and
- b. not have eroded by more than 30% in the last three years, ending on 31.03.2023.

SIGNATURE OF BIDDER WITH
NAME, DESIGNATION & SEAL

FOR ITEM NO. 2 & 3

Experience & Past Performance :

The bidder shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Milling Type CNC Engraving Machine with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Capability - Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least one number of Milling Type CNC Engraving Machine.

Financial Standing :

The average annual financial turnover of the bidder firm during the last three years, ending on 31.03.2023, should be at least Rs. 3,26,70,285/- as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India or equivalent in relevant countries.

The net worth of the firm should

- a. not be negative on 31.03.2023 and
- b. not have eroded by more than 30% in the last three years, ending on 31.03.2023.



FOR ITEM NO. 1 & 3

Experience & Past Performance :

The bidder shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Milling Type CNC Engraving Machine with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Capability - Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least one number of Milling Type CNC Engraving Machine.

Financial Standing :

The average annual financial turnover of the bidder firm during the last three years, ending on 31.03.2023, should be at least Rs. 2,67,42,710/- as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India or equivalent in relevant countries.

The net worth of the firm should

- a. not be negative on 31.03.2023 and
- b. not have eroded by more than 30% in the last three years, ending on 31.03.2023.

NOTE :

1. All experience, past performance and capacity/capability related data should be certified by the Authorized Signatory of the Bidder firm. The credentials regarding experience and past performance to the extent required as per the above eligibility criteria as submitted by the bidder may be verified by the parties for whom machine has been supplied.
2. All financial standing data should be certified by Chartered Accountants (CA) in India and certified Public Accountant/ Chartered Accountants of other countries.
3. For MSEs and Start-ups (registered for the tendered item) all financial criteria shall be exempted. However, its capacity and capability shall be verified if required.
4. Start-up Enterprises: Requirements of prior experience and turnover would be relaxed for Start-up enterprises as recognised by Department for Promotion of Industry and Internal Trade (DPIIT), subject to their meeting the quality and technical specifications. Such Start-ups maybe either MSE or otherwise.
5. Bidder shall submit the supporting document in support of above.

SIGNATURE OF BIDDER WITH
NAME, DESIGNATION & SEAL



Section X: Tender Form

Date.....

To,

.....
.....
.....

(Complete address of SPMCIL)

Ref: Your Tender document No: **6000018803/WWS/24-25/514, Dated: 17.07.2024**

We, the undersigned have examined the above-mentioned tender enquiry document, including amendment No....., dated..... (If any), the receipt of which is hereby confirmed. We now offer to supply and deliver..... (description of goods and services) in conformity with your above referred document for the sum shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 6, read with modification, if any, in Section V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance for a period upto....., as required in the GIT clause19, read with modification, if any in Section-III - “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender upto the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We confirm that in case of downloaded Tender Document, we have not changed/ edited its contents. We realise that in case any such change is noticed at any stage including after the award of contract, we would be liable to action under clause 44 of the GIT.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We also solemnly declare as under:



1. Make in India Status:

Having read and understood the Public Procurement (Preference to Make in India PPP_MII) Order, 2017 (as amended and revised till date) and related notifications from the relevant Nodal Ministry/ Department, and solemnly declare the following:

- (a) Self-Certification for category of supplier:
 - Class-I Local Supplier/
 - Class-II Local Supplier/
 - Non-Local Supplier.
- (b) We also declare that
 - There is no country whose bidders have been notified as ineligible on reciprocal basis under this order for offered product, or
 - We do not belong to any Country whose bidders are notified as ineligible on reciprocal basis under this order

2. Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017

Having read and understood the Order (Public Procurement No. 1) issued vide F.No.6/18/2019-PPD dated 23rd July 2020 (and its amendments if any) by Department of Expenditure, Ministry of Finance under the above provision and solemnly declare the following:

- We do not belong to any Country whose bidders are notified as ineligible under this order

3. Debarment Status: Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ Depts. of Government of India or by any State Govt:

- Yes (with period of Ban)
- No, We, solemnly declare that neither we nor any of our affiliates or subsidiaries – including subcontractors or suppliers for any part of the contract–do not stand declared ineligible/blacklisted/banned/debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country’s laws or official regulations.

4. Penalties for false or misleading declarations: I/we hereby confirm that the particulars given above are correct and complete and also undertake to advise any future changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of code of Ethics and would attract penalties as mentioned in this tender document, including debarment.

.....
.....

(Signature with date)

.....
.....



Name and designation

Duly authorized to sign tender for and on behalf of

.....

.....



Section XI: Price Schedule

OFFER FORM for Tender No.....Date _____ of
opening.....Time..... Hours.....

We..... hereby certify that we are established firm of
manufacturers / authorized agents of M/s...with factories at
.....which are fitted with modern equipment and where the
production methods, quality control and testing of all materials and parts manufactured or used by us are open to
inspection by the representative of(Name of Purchaser)..... We hereby offer to supply the following items at
the prices indicated below:

GST No. _____

HSN Code for Material:

SAC Code for Service:

FOR ITEM NO. 1 : SUPPLY, INSTALLATION, COMMISSIONING OF MILLING TYPE CNC ENGRAVING MACHINE AT SPM, NARMADAPURAM		
SN	Particulars	Amount
Part - A: PRICES FOR SUPPLY OF ITEM		
1	Complete prices of Milling Type CNC Engraving as per Section-VII of the tender document up to FOR SPM, Narmadapuram, duly unloaded	
2	Other charges/Taxes (if any) Please specify	
3	Sub Total (1+2)	
4	GST % (please mention GST rate)	
5	Total Price (3+4)	
6	Quantity	01 No.
7	Total Price (F.O.R, SPM, Narmadapuram) (in figures only) (5 X 6)	
Part - B: PRICES FOR SERVICES		
1	Complete Installation & commissioning charges.	
2	Other Charges (if any)	
3	TOTAL (1+2)	
4	GST % (please mention GST rate)	
5	Total price of services (3+4) (in figures only) Rs.	
Part - C: PRICES FOR ANNUAL MAINTENANCE CONTRACT		
1	AMC charges for 1 st year	
2	AMC charges for 2 nd year	
3	AMC charges for 3 rd year	
4	TOTAL (1+2+3)	
5	GST % (please mention GST rate)	
6	Total price of AMC (5+6) (in figures only)	
7	GRAND TOTAL (Part-A + Part-B + Part-C) (in figures only) Rs.	
	Grand Total in words Rupees _____	



FOR ITEM NO. 2 : SUPPLY, INSTALLATION, COMMISSIONING OF 3D CNC ENGRAVING AND MILLING MACHINE AT IGM, HYDERABAD		
SN	Particulars	Amount
Part - A: PRICES FOR SUPPLY OF ITEM		
1	Complete prices of 3D CNC Engraving and Milling Machine as per Section-VII of the tender document up to FOR IGM, Hyderabad, duly unloaded	
2	Other charges/Taxes (if any) Please specify	
3	Sub Total (1+2)	
4	GST % (please mention GST rate)	
5	Total Price (3+4)	
6	Quantity	01 No.
7	Total Price (F.O.R, IGM, Hyderabad) (in figures only) (5 X 6)	
Part - B: PRICES FOR SERVICES		
1	Complete Installation & commissioning charges.	
2	Other Charges (if any)	
3	TOTAL (1+2)	
4	GST % (please mention GST rate)	
5	Total price of services (3+4) (in figures only) Rs.	
Part - C: PRICES FOR ANNUAL MAINTENANCE CONTRACT		
1	AMC charges for 1 st year	
2	AMC charges for 2 nd year	
3	AMC charges for 3 rd year	
4	TOTAL (1+2+3)	
5	GST % (please mention GST rate)	
6	Total price of AMC (5+6) (in figures only)	
7	GRAND TOTAL (Part-A + Part-B + Part-C) (in figures only) Rs.	
	Grand Total in words Rupees _____ _____	



FOR ITEM NO. 3 : SUPPLY, INSTALLATION, COMMISSIONING OF CNC MILLING AND ENGRAVING MACHINE AND SCANNING MACHINE AT IGM, MUMBAI		
SN	Particulars	Amount
Part - A: PRICES FOR SUPPLY OF ITEM		
1	Complete prices of CNC Milling & Engraving and Scanning Machine as per Section-VII of the tender document up to FOR IGM, Mumbai, duly unloaded	
2	Other charges/Taxes (if any) Please specify	
3	Sub Total (1+2)	
4	GST % (please mention GST rate)	
5	Total Price (3+4)	
6	Quantity	01 No.
7	Total Price (F.O.R, IGM, Mumbai) (in figures only) (5 X 6)	
Part - B: PRICES FOR SERVICES		
1	Complete Installation & commissioning charges.	
2	Other Charges (if any)	
3	TOTAL (1+2)	
4	GST % (please mention GST rate)	
5	Total price of services (3+4)	
6	Total Price (in figures only) Rs.	
Part - C: PRICES FOR ANNUAL MAINTENANCE CONTRACT		
1	AMC charges for 1 st year	
2	AMC charges for 2 nd year	
3	AMC charges for 3 rd year	
4	TOTAL (1+2+3)	
5	GST % (please mention GST rate)	
6	Total price of AMC (5+6) (in figures only)	
7	GRAND TOTAL (Part-A + Part-B + Part-C) (in figures only) Rs.	
	Grand Total in words Rupees _____ _____	



Price Schedule:

1. **Scope of Supply:** Supply, Installation and Commissioning of 03 nos. of CNC Engraving Machine as per Section-VII.

2. Taxation Details:

- a. PAN number
- b. Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.)
- c. GSTIN number
- d. Registered Address as per GST registration and Place of Delivery for GST Purpose
- e. Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts)

3. It is hereby certified that we have understood the General and Special Instructions to Tenderers (GIT and SIT), and also the General and Special Conditions of Contract (GCC and SCC) attached to the tender and have thoroughly examined specifications/ Quality Control Requirements and other stipulations in Section VII & VIII – Technical Specifications and Quality Control Requirements; and are thoroughly aware of the nature of stores required and our offer is to supply stores strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the General and Special Conditions of Contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

4. We hereby offer to supply the stores detailed above or such portion thereof, as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of _____ days from the date of opening of tender (i.e., upto _____), We shall be bound by the communication of acceptance despatched.

5. Earnests Money/Bid Guarantee for an amount equal to _____ is enclosed in form of _____ (form and reference number, date) as per the Tender Documents.

6. The method of evaluation of L1 criteria for awarding the contract shall be schedule wise/item wise decided taking into consideration the total landed price.

7. TCS (u/s 206C (1 H) of IT Act is not applicable, as SPM will deduct TDS u/s 194Q.

Dated.....

Signature and seal of *Manufacturer/Bidder*

Note:

- (i) The Bidder may prepare their own offer forms as per this proforma in their letter head.
- (ii) No change in the proforma is permissible.
- (iii) No erasures or alternations in the text of the offer are permitted. Any correction made in the offer shall be initialed by the bidder.
- (iv) Figures in Columns 7 (Grand total) should be in both figures and words.
- (v) This Section should not bring in any new Technical Parameter that has not been mentioned in the Technical Bid.

SIGNATURE OF BIDDER WITH
NAME, DESIGNATION & SEAL



Section XII Vendor Details

The tenderer should furnish specific details mentioned below. In case a question/issue does not apply to a tenderer, the same should be answered with the remark “not applicable”.

Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.

In case a tenderer furnishes a wrong or misleading answer against any of the under mentioned question/ issues, its tender will be liable to be ignored.

1. Vendor/ Contractor particulars:

- (a) Name of the Company:
- (b) Corporate Identity No. (CIN):
- (c) Registration if any with SPMCIL:
- (d) Complete Postal Address:
- (e) Pin code/ ZIP code:
- (f) Telephone nos. (with country/area codes):.....
- (g) Fax No.: (with country/area codes):
- (h) Cell phone Nos.: (with country/area codes):
- (i) Contact persons /Designation:
- (j) Email IDs:

2. Taxation Details:

- (a) PAN Number:
- (b) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.):
.....
- (c) GSTIN number:
- (d) Registered Address as per GST registration and Place of Delivery for GST Purpose:
- (e) Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts):



- We solemnly declare that our GST rating on the GST portal / Govt. official website is NOT negative / blacklisted during the last three financial years.

.....

(Signature with date)

.....

.....

(Full name, designation & address of the person duly authorized sign on behalf of the tenderer)

For and on behalf of

.....

.....

(Name, address, and stamp of the tendering firm)



Section XIV: Manufacturer's Authorization Form

To

.....
.....

(Name and address of SPMCIL)

Dear Sirs,

Ref. Your Tender document No, dated

We,.....who are proven and reputable manufacturers of *(name and description of the goods offered in the tender)* having factories at, hereby authorize Messrs. *(name and address of the agent)* to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender enquiry documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs..... *(name and address of the above agent)* is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender enquiry documents for the above goods manufactured by us.

We also hereby extend our full warranty, as applicable as per clause 16 of the General Conditions of Contract read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this tender document.

Yours faithfully,

.....
.....

[Signature with date, name, and designation]

for and on behalf of Messrs.....

Name & address of the manufacturers

Note: This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.



Section XV: Bank Guarantee Form for Performance Security

**PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE
GUARANTEE BOND**

(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)

Ref

Date.....

Bank Guarantee No.....

To,

(Insert Name & Address of the Purchaser)

Dear Sir,

1. Against contract vide Notification for Award of the Tender No..... dated covering supply of (herein after called the 'contract') entered into between the (insert name of Purchaser) (herein after called as the Purchaser) and M/s (herein after called the 'Contractor'), this is to certify that, at the request of the Contractor, we (name of the bank), are holding in trust in favour of the Purchaser, the amount of (write the sum here in words), to indemnify and keep indemnified the Purchaser, against any loss or damage that may be caused to, or suffered by the Purchaser, by reason of any breach by the Contractor of any of the terms and conditions of the said contract and/or in the performance thereof. We agree that the decision of the Purchaser, whether any breach of any of the terms and conditions of the said contract and/or in the performance thereof has been committed by the Contractor; and the amount of loss or damage that has been caused or suffered by the Purchaser, shall be final and binding on us, and the amount of the said loss or damage shall be paid by us,
2. We (name of the bank), further agree that, the guarantee herein contained, shall remain in full force and effect, for sixty days after the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period whichever is later, i.e. till....., (hereinafter called the 'said date') and that if any claim accrues or arises against us.....(name of the bank), by virtue of this guarantee before the said date, the same shall be enforceable against us..... (name of the bank), notwithstanding the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us, ... (name of the bank), by the Purchaser, before the said date. Payment under this bond of guarantee shall be made promptly, upon our receipt of notice to that effect, from the Purchaser.
3. It is fully understood that this guarantee is effective from the date of the said contract and that we..... (name of the bank), undertake not to revoke this guarantee during its currency, without the consent in writing of the Purchaser.



4. We undertake to pay to the Purchaser, any money so demanded, notwithstanding any dispute or disputes raised by the Contractor, in any suit or proceeding pending before any Court or Tribunal, relating thereto, our liability under this present, being absolute and unequivocal. The payments so made by us under this bond, shall be a valid discharge of our liability for payment thereunder, and the Contractor shall have no claim against us, for making such payments.

5. We..... (name of the bank), further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said contract, or to extend time of performance by the Contractor, from time to time, or to postpone for any time or form, time to time, any of the powers exercisable by the Purchaser, against the said Contractor and to for bear or enforce any of the terms and conditions relating to the said contracts and we
(name of the bank), shall not be released from our liability under **(name of the bank)**, shall not be released from our liability under this guarantee, by reason of any such variation or extension being granted to the said Contractor, or for any forbearance and/or omission on the part of the Purchaser, or any indulgence by the Purchaser towards the said Contractor, or by any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision, have the effect of so releasing us from our liability under this guarantee.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

Date:

Place:

Signature.....

(Printed Name).....

(Designation).....

Witnesses

(Bank's Common Seal)



Section XVI: Contract Form

(Address of SPMCIL's office issuing the contract)

Contract No..... dated.....

This is in continuation to this office' Notification of Award No dated

1. Name & address of the Supplier
2. SPMCIL's Tender document No datedand subsequent Amendment No, dated.....(If any), issued by SPMCIL.
3. Supplier's Tender No..... dated..... and subsequent communication(s) No.....dated (If any), exchanged between the supplier and SPMCIL in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as part of this contract:
 - (i) General Conditions of Contract;
 - (ii) Special Conditions of Contract;
 - (iii) List of Requirements;
 - (iv) Technical Specifications;
 - (v) Quality Control Requirements;
 - (vi) Tender Form furnished by the supplier;
 - (vii) Price Schedule(s) furnished by the supplier in its tender;
 - (viii) Manufacturers' Authorization Form (if applicable for this tender);
 - (ix) SPMCIL's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under Section – V - 'General Conditions of Contract' of SPMCIL's Tender document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

- (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of goods/ services	Accounting unit	Quantity to be supplied	Unit Price (in Rs.)	Total price



Any other additional services (if applicable) and cost there of:

Total value (in figure) _____ (In words) _____

- (ii) Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control
 - (a) Mode(s), stage(s), and place(s) of conducting inspections and tests.
 - (b) Designation and address of SPMCIL's inspecting officer
- (v) Destination and dispatch instructions
- (vi) Consignee, including port consignee, if any
- (vii) Warranty clause
- (viii) Payment terms
- (ix) Paying authority

(Signature, name, and address of SPMCIL's authorized official)

For and on behalf of

Received and accepted this contract

(Signature, name, and address of the supplier's executive duly authorized to sign on behalf of the supplier)

For and on behalf of

(Name and address of the supplier)

.....

(Seal of the supplier)

Date:

Place:



**Section XVII: Letter of Authority for attending / Bid Opening
(Refer to clause 24.2 of GIT)**

The General Manager

Unit Address

Subject: Authorization for attending bid opening on _____ (date) in the Tender of _____.

Following persons are hereby authorized to attend the bid opening for the tender mentioned above on behalf of (Bidder) in order of preference given below.

Order of Preference	Name	Specimen Signatures
I.		
II.		
Alternate Representative		
Signatures of bidder or Officer authorized to sign the bid Documents on behalf of the bidder		

NOTE

1. Maximum of two representatives will be permitted to attend pre-bid conference/ bid opening. In cases where it is restricted to one, first named representative will be allowed to attend. Alternate representative will be permitted when regular representatives are not able to attend.
2. In case of pre-bid conference, self-attested copy of proof of purchase of Bid documents, in the name of the bidder must be enclosed with this authorization, without which entry would be refused. Bid documents would be available for sale at the site also.
3. Permission for entry to the hall where even is held may be refused in case authorization as prescribed above is not produced.



**Section XVIII: Proforma of Bills for Payments
(Refer Clause 22.6 of GCC)**

Name and Address of the Firm

Bill No Dated

Purchase order No Dated

Name and address of the consignee

S. No	Authority for purchase	Description of Stores	Number or quantity	Rate Rs. P.	Price per Rs. P.	Amount
Total						

1. GST/ CGST/ SGST/ UTGST/ IGST Amount
2. Freight (if applicable)
3. Excise Duty (if applicable)
4. Packing and Forwarding charges (if applicable)
5. Others (Please specify)
6. PVC Amount (with calculation sheet enclosed)
7. (-) deduction/Discount
8. Net amount payable (in words Rs.)

Dispatch detail RR No. other proof of dispatch

Dated (enclosed)

Inspection Certificate No dated (enclosed)

Place and Date

Received Rs

Rupees)



We solemnly certify that:

- a. Goods and Services Tax (GST) charged on this Bill is not more than what is payable under the provision of the relevant Act or the Rules made there under.
- b. Goods on which GST has been charged have not been exempted under the GST Act or the rules made there under and the charges on account of GST on these goods are correct under the provisions of that Act or the Rules made there under.
- c. We are registered with above indicated GSTIN as dealer in the State where in their Billing address is located for the purpose of GST.
- d. This bill form / invoice is not a replacement for the GST invoice. The proper GST invoice as per requirements of GST rules has been sent to the Purchaser as and when deliveries are made to the consignee.
- e. That the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

Revenue stamp

Signature and of Stamp Supplier



**Section XIX: NEFT Mandate
(Refer clause 22.2 of GCC)**

From: M/s.

Date:

To:

(Insert Name and Address of Purchaser's Paying Authority as per NIT Clause 1)

Sub: NEFT payments

We refer to RBI's NEFT scheme. Our mandate SPMCIL for making payments to us through the above scheme to our under noted account.

NATIONAL ELECTRONIC FUNDS TRANSFER MANDATE FORM

1.	Name of City	
2.	Bank Code No.	
3.	Branch Code No.	
4.	Bank's Name	
5.	Branch Address	
6.	Branch Telephone / Fax No.	
7.	Supplier's Account No.	
8.	Type of Account	
9.	IFSC code for NEFT	
10.	IFSC code for RTGS	
11.	Supplier's name as per Account	
12.	MICR Code No.	
In Lieu of Bank Certificate to be obtained as under, please attach a bank cancelled cheque or photocopy of a cheque or front page of your bank passbook issued by your bank for verification of the above particulars.		

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option intimation letter and agree to discharge responsibility expected of me as a participant under the scheme.

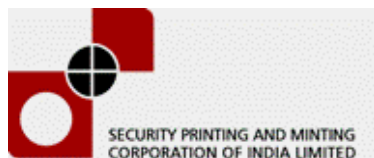


Date

Signature of the Customer

Certified that the above particulars are correct as per our record.

Stamp and
Signature of authorized
Official of the bank

**ANNEXURE - I****THREE BID,SINGLE STAGE (THREE PACKET) TENDER
BIDDER'S CHECK LIST BEFORE TENDER SUBMISSION****Part I : - PRE-QUALIFICATION BID**

S. No.	Tender Submission Check Points	Check before submission (<input checked="" type="checkbox"/>)
1	Earnest Money Deposit.	
2	One original copy shall be submitted. It should not have any price aspects.	
3	Duly filled tender form as per Section-X is to be submitted. No price detail is to be given in this bid. In case if any price detail is given, then the bids are liable to be rejected.	
4	Containing un-priced tender consisting of complete Qualification/Eligibility of the tenderer as per the format specified under Section IX in this document.	
5	Firm shall submit the declaration (Annexure-III) as per GIT Clause no. 3.5, as per Ministry of Finance, Department of Expenditure OM no. 06/18/2019- PPD dated 23.07.2020.	
6	Manufacturer Authorization Form, if the bidder is not a manufacturer.	
7	Power of Attorney/ Authorization with the seal of the company of person signing the tender documents.	

Part II : - TECHNO-COMMERCIAL BID

S. No.	Tender Submission Check Points	Check before submission (<input checked="" type="checkbox"/>)
1	The tenderer shall submit detailed technical offer as per as per Section VII of this tender document.	
2	The tenderer has to submit Annexure-II & IV as attached along with tender document with seal and signed.	
3	Containing Blank price Bid (No price details to be given in this tender).Confirm the delivery schedule, terms of delivery, payment terms and tender validity as per tender document.	
4	The tenderer shall accept the terms of delivery, required delivery schedule, payment terms, validity of the tender, warranty clause as per the tender document	

Part III : - PRICE BID

S. No.	Tender Submission Check Points	Check before submission (<input checked="" type="checkbox"/>)
1	Price Bid as per Section XI (Price including all taxes & other charges)	

.....
(Bidder's Seal & Sign)
Seal & Sign)



ANNEXURE – II

Tender No. 6000018803/WWS/24-25/514, Dated: 17.07.2024
(To be submitted on the letter head)

DECLARATION

We do hereby declare that,

1. We have not been blacklisted /debarred by BNPMIPL /BRBNMPL /SPMCIL or any Govt. Departments for participation in tenders. The information provided above is correct and true to the best of my knowledge and belief.
2. We do hereby declare that we have read and understood all terms and conditions of tender document including GIT, SIT, GCC, SCC, Technical Specification, Quality Control Criteria and confirm to abide to those conditions without any counter conditions.
3. "We are accepting all the terms and conditions of the tender document without any deviation and withdraw all deviations if any".
4. "We Declare that If we withdraw or modify our bids during period of validity of tender etc. than we will be suspended for the period of 03 years from the date of opening of tender."

Signature.....

Name.....

Designation.....

Date.....

Stamp of the Organization.....



ANNEXURE-III

Tender No. 6000018803/WWS/24-25/514, Dated: 17.07.2024
(To be submitted on the letter head)

DECLARATION

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that M/s.....
(firm's name) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that M/s
(firm's name) fulfils at requirements in this regard and is eligible to be considered."
(where applicable, evidence of valid registration by the competent Authority shall be attached)

I, the undersigned, declare that the item.....originate in.....(Name of the country).

Signature.....

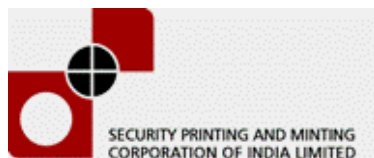
Name.....

Designation.....

Date.....

Stamp of the

Organization.....

**Annexure-IV**

Declaration for Section 206AB of TDS under income tax Act, 1961
(to be submitted on Letter Head)

Vendor Code: _____

M/s _____

PAN _____ GSTIN _____

I/We _____ <Legal Name and complete address > ,

PAN: _____, TAN: _____, referring to the

provisions of 206AB of the IT Act, 1961, hereby declare the following:-

Financial Year	Aggregate TDS & TCS credit in our name was Rs. 50,000 or more ("Yes / No")	Income Tax Return ("ITR") Filed ("Yes/No")	E-filing Acknowledgment Number (15 digit - numeric) (Attach copy of acknowledgments)	Date of Filing of Return of Income u/s 139(1) (DD/MM/YYYY)	Linked PAN with Aadhaar number or will link it before 31st March, 2024 (or any further date as may be notified by CBDT ("Yes / No"))
2020-21					
2021-22					
2022-23					

We do hereby declare that to the best of my /our knowledge and belief what is stated above is correct, complete and is truly stated. In case there is a tax liability, interest or penal consequences which are levied on SPM on account of the false representation/ declaration, I/we undertake to fully indemnify SPM for the same.

FOR _____

Authorized Signatory

Date:

Note: In case the vendor failed to comply with the above provisions, TDS shall be deducted at the higher of the following rates, namely: -

- (i) at twice the rate specified in the relevant provision of the Act; or
- (ii) at twice the rate or rates in force; or
- (iii) at the rate of five per cent (5%).