

### Event Details

Event No:SPMCIL/Currency Note Press Nashik/Technical/7/22-23/ET/63[3D Digital Microscope]				Event Status
Trade:Goods				Event Activated
Description of Event:3D Digital Microscope				Activities
Mode:E-Tender_HTML	Type Of Tender: Open	Bid Submission: Eventwise	Public Opening: YES	Tender Extended on: 2022-07-12-10.17.29.089893 Tender Opened on: - Price Opened on: - Event Cancelled on: -
EMD:572000.00 Tender Fee:Not Applicable Estimated Value:28600000.00		Document Upload:YES Coverwise Document Upload:YES		

Online Pre Bid Meeting	Bidding Period	Tender Opening Period	Price Bid Opening Date
Not Applicable	01.06.2022-12:05 PMTto22.07.2022-02:30 PM	22.07.2022-02:31 PMTto22.07.2023-02:31 PM	-

### List Of Tender Document

SL. No.	Document Details	Document Type
1	22-23-ET-63[3D Digital Microscope]-167062-NIT-1118963-3Dmicroscope.pdf	NIT

### Vendor Document Upload Checklist For Technical COVER

SL. No.	Document Details
1	Document in support of Section VI List of Requirements Section VII Technical Specification Section VIII Quality Control Requirements
2	Submission of Duly Signed and Sealed all tender document

### Vendor Document Upload Checklist For Pre Qualification COVER

SL. No.	Document Details
---------	------------------

1	Documents in support of Eligibility Criteria of Section IX of Tender Document
---	---

### Tender Committee Members

Name	Designation	Office	Department	Email	Mobile No.	Encryption public key expiry date
VUPPALA KIRAN KUMAR	Jt. General Manager	Currency Note Press Nashik	Purchase,HR,Technical,Finanace,IT,Marketing,R and D,Others	V.Kirankumar@spmcil.com	9096000418	2022-08-22 00:00:00.0
TUSHARKUMAR PRAKASH MAHAJAN	DGM	Currency Note Press Nashik	IT	tushar.mahajan@spmcil.com	8275022966	2022-08-22 00:00:00.0
BHARATI DHIRENDER SHARMA	MANAGER	Currency Note Press Nashik	Finanace	bharati.sharma@spmcil.com	8888635230	2022-08-22 00:00:00.0

### Pre-Qualification Terms

#### QUALIFICATION OF ELIGIBILITY CRITERIA FOR PQB BID

Sl.No	Terms	Component
-------	-------	-----------

1	<p>1.Experience and past performance: a.The bidder manufacturer or principal of authorized representative hereinafter referred simply as The Bidder should have manufactured, supplied, installed and commissioned at least one 3D Digital Microscope with the same or higher specifications in last five years ending on 31-03-2021 . b.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. The list of customers along with the performance report shall also be provided.</p>	Agree Only
2	<p>Capability Equipment &amp; manufacturing Facilities :</p> <p>The Bidder must have an annual capacity to manufacture and supply at least 1 nos. of 3 D Digital Microscope.</p> <p>Note: 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 eligibility criteria submitted by bidder should be verified from the parties for whom work has been done.</p>	Agree Only

3	<p>3.Financial standing:</p> <p>a.The average annual financial turnover of the bidder firm (manufacturer or principal of authorized dealer) during the last three years, ending on March 2021 should be at Rs. 1,20,83,000/- as per the annual report (audited balance sheet and profit &amp; loss account) of the relevant period duly authenticated by a Chartered Accountant/ Cost Accountant in India.</p> <p>b.Bidder Firm should not have suffered any financial loss for more than one year during the last three years, ending on March 2021.</p> <p>c.The net worth of the firm should</p> <p>i.Not be negative on The Relevant Date and</p> <p>ii.Not have eroded by more than 30% in the last three years, ending on March 2021.</p> <p>Note : All financial standing data should be certified by certified accountants e.g. Chartered Accountants (CA) or Cost Accountants (CMA).</p>	Agree Only
4	The bidder should give a declaration that they have not been black-listed/ debarred for dealing by Government of India in the past.	Agree Only
5	5.The bidder should give declaration toward unconditional acceptance to all terms and conditions of the tender.	Agree Only
6	The bidder has to submit Power of Attorney for the Authorized signatory for signing the bid document and concluding the contract, if awarded.	Agree Only

7	The bidder has to submit a copy of PAN, GST (Reg 06).	Agree Only
8	This instrument has been categorized based on its utility Viz., Special Tests for measuring depth of intaglio design on metal, Tactility of ink on banknote paper for surface topography analysis. Manufacturer/manufacturers license or their authorized dealer who are exclusively appointed by the principle manufacturer to represent them in the country shall be eligible to apply or to take part in the bid.	Agree Only
9	One manufacturer can authorize only one dealer. There can be only one bid from the principal/manufacturer directly or any office branch or division or retailer/sub dealer. Principal/manufacturer shall meet the qualifying criteria. Retailer/sub dealer shall furnish necessary details of his business.	Agree Only
10	Debarment Status: Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ Deptts. of Government of India or by any State Govt:  a. Yes (with period of Ban) b. 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.	Agree Only

11	Note : Local suppliers are exempted for experience criteria at point -1 & Turnover criteria at point 3(a) under make in India policy. The bidder has to fulfill/at all other criteria. The capability of level supplied/manufacture to the extent required shall be verified at work site of the bidder, if required.	Agree Only
----	---	------------

**Common Terms**

**TECHNICAL SPECIFICATION**

Sl.No	Terms	Component
-------	-------	-----------

1	<p>1.Brief Description: Currency Note Press, Nasik, A unit of Security Printing and Minting Corporation of India Ltd. SPMCIL, wholly owned by Government of India intends to procure 3 D DIGITAL MICROSCOPE to measure Ink thickness, Tactility on watermark paper designed depth on Intaglio plate, 01 No. each for Currency Note Press, Nasik Road Bank Note Press, Dewas as per the details given below: 1.1The 3 D DIGITAL MICROSCOPE shall be compact, rigid, mechanically sound. 1.2The 3 D DIGITAL MICROSCOPE shall be of latest technology meeting all the environmental, safety and other international regulations and standards. 1.3The 3 D DIGITAL MICROSCOPE shall be complete with all required mechanical, electrical, electronics, optical, photoelectric etc. and equipped with systems for automatic smooth continuous and un-interrupted functions. 1.4Its working performance shall be steady, smooth and consistent. 2.Objectives: 2.13 D DIGITAL MICROSCOPE is to measure ink layer thickness of Dry offset, Numbering Intaglio printing of Indian Bank notes in real time. 2.23 D DIGITAL MICROSCOPE should be capable to measure thickness of CSI Colour Shift Ink on printed bank notes. 2.3 3 D DIGITAL MICROSCOPE should be capable to measure thickness of overcoat transparent varnish thickness on finished banknotes. 2.43 D DIGITAL MICROSCOPE is to measure real time tactility on printed bank notes. 2.53 D</p>	Agree Only
---	--	------------

DIGITAL MICROSCOPE is to measure real time depth of Intaglio design on engraved metal plates, measuring range should be 5 to 160 micron. 2.63 D DIGITAL MICROSCOPE shall be able to measure real time three dimensional measurements of all the printing on water mark paper. 2.73 D DIGITAL MICROSCOPE shall be able to take measurement min. 166 mm x 66 mm area and provide detail three dimensional information. 3. System requirement: 3.13 D DIGITAL MICROSCOPE shall consist of camera system having lens with large depth of field, optimum lighting system, controllable stands easy for observations. 3.2 Lighting system of 3 D microscope shall be able to suppress the reflection of light from glass metal if any for precise result. 3.3 The camera system shall have sensor with better light sensitivity with very low image noise. The resolution should be higher than full HD minimum 50 FPS or better. 3.43 D DIGITAL MICROSCOPE should be able to create three dimensional modelling data having measurement information that can be taken from 3 D model. 3.53 D DIGITAL MICROSCOPE should provide high resolution observation, fast and accurate measurement, full motorized for 3 D tiling. 3.63 D DIGITAL MICROSCOPE system should consist of central processing unit consisting of 3 D measurement software and tiling software. The system should have facility of recording, observations and 2 D measurements. 3.73 D DIGITAL MICROSCOPE system should consist of 3



D Mouse for fast control of X, Y and Z axis movement. 3.83 D DIGITAL MICROSCOPE system should consist of high intensity LED light sources that can provide True Colour Reproduction 5700 K Colour Temperature and 30000 Hours average life time. 3.93 D DIGITAL MICROSCOPE system shall have capability of zoom lens 35-5000x. The system should have a capability to select at least three ranges of magnification between 35 to 5000x. The user should be able to select the suitable range as per requirement. 3.103 D DIGITAL MICROSCOPE should consist of PC having following specifications:  
aProcessor i-5 or higher bHDD 1 TB or higher cOS Windows 10, 64 bit or higher dMonitor 1920x1080 resolution or higher eSize of Monitor 27 inches or higher 3.113 D DIGITAL MICROSCOPE system should have pre-installed advanced software for 3 D profile measurements, 2 D Image 3 D profile measurement, 3 D image height point measurement, 3 D profile roughness measurement. The software should be provided with free of charge unlimited software updates. 3.12The software should generate the images in the format of Exif-JPEG compressed, TIFF, BMP non compressed format. 3.13This software shall have minimum following measurement functions- aAuto calibration mode bDistance, Angle, Area etc. cAuto-Count, Auto-Area, Auto-Edge Detection. dScale display in metricinch. eStatistics result data output in CSV or MS Office. fWide image

measurement. 3.14 All the software provided shall be of perpetual nature valid for unlimited time. Software to be issued registered in the name of Currency Note Press, Nashik Road for one complete system and Bank Note Press, Dewas for the other system based on the delivery destination installation site. 3.15 System should have facility to be mounted on suitable stand to measure characteristics at any point of the product of size 860mmx 850mm. 3.16 System should be suitable to take measurement at any point of the product mounted on cylindrical surface. 4. Essential General Specifications: 4.1 The supplier shall provide technical support for the instrument and make available all required spares, consumables maintenance for a period of ten years from the date of expiry of warranty. 4.2 The equipment should be quoted with all the accessories including calibrated specimen required to operate the system. 4.3 The instrument shall perform efficiently under following working conditions: i. Available Electric power supply 240 V  $\pm$  10, 50 HZ. Note: The above requirements are indicative and in case of any superior system is offered which meet the actual operational and functional requirement, same will be considered. 5. Auxiliaries Required per machine: All the auxiliaries required for operation shall be supplied along with machine. The firm should supply suitable anti-vibration table in case table top 3D digital microscope system is offered by the firm. 6. Maintenance:

6.1 Assembly drawings with exploding views wherever necessary to facilitate dismantling and assembly during maintenance should be provided by the successful bidder. Declaration to this effect to be given by the bidder along with the technical bid.

6.2 List of spare parts with a proper consumption pattern and average life shall be furnished by the successful bidder. Declaration to this effect to be given by the bidder along with the technical bid.

6.3 International standards applicable for all electrical and electronic items such as spare components shall be provided by the successful bidder. Declaration to this effect to be given by the bidder along with the technical bid.

7. Documents required: The firm will have to submit following documents each in 03 sets in English language only

- I. Operation manual of the machine.
- II. Maintenance manual with drawings of system assembly sub assembly with part list.
- III. Electrical circuit diagram, Fault finding Charts and Spare Parts catalogue.
- IV. All Programmes parameters in hard as well as soft copies on CDDVD pen drive.
- V. Complete list of error messages and their suggested diagnostic and remedial guidance.
- VI. Back up of all applications and system software in original licensed copy. All these systems and application software must have life time validity License Free.

8. Comprehensive Annual Maintenance Charges : The bidder has to provide CAMC charges in price bid for 3 years. The CAMC includes calibration of the instrument on

	yearly basis. CNP reserves to place order for CAMC after completion of Warranty Period.	
--	---	--

2

1.Required Delivery Schedule:

(a) All the equipment mentioned in the Purchase Order must be received within 16 weeks from the date of issue of the purchase order.

(b) The entire system should be installed, commissioned and final acceptance test within 4 weeks from the date of receipt of intimation about receipt of the items at CNP stores.

2.Required Terms of Delivery: - FOR CNP NASHIK ROAD/ BNP DEWAS

3.Destination:- CURRENCY NOTE PRESS, NASHIK ROAD  
BANK NOTE PRESS, DEWAS

4.The firm should submit complete technical documents, leaflets, drawings, erection drawings, etc. with the technical offer.

5.Bid Validity: 165 days from due date of tender.

6.Bidder have to open the link provided in Section II and IV take print out of all the documents available and then sign and stamp each and every paper and submit along with the technical tender.

7.All the copies of tenders shall be complete in all respects with all their attachments/enclosures duly numbered.

Agree Only

8. After Sales Service: The supplier should give minimum 10 years after sales service along with all spares. The guarantee/ warranty of various components / units installed in the machine/equipment from OEM shall be provided to CNP.

9. Licenses and permits: Wherever applicable, the successful bidder shall ensure himself and provide 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.

10. Income Tax (TDS) on installation, commissioning and training in India, if leviable, shall be borne by the tenderer.

11. Annual Maintenance Contract : Post Warranty maintenance, bidder should submit price for Comprehensive AMC (Instrument calibration should be included all maintained) for a period of three years . AMC price will be optional and will not be considered in deciding L-1. CNP reserves right to place order for AMC after completion of Warranty period.

12. SPARE PARTS:

i. The bidder shall submit the list of recommended critical spare parts required for trouble free operation for 02 years after

warranty.  
ii. The list should indicate the detail description of item identification nos. and quantity.  
iii. The list should be un-priced along with technical bid and price along with commercial bid. The price of the spare parts will not be taken in to account for deciding lowest offer. However the price of the spares shall remain unchanged for 03 years after expiry of warranty.  
iv. The bidder should specify email ID/Permanent Account No. and Address of responsible person/company for ordering spares/services in future.

13. 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. Written commitment should be submitted in this regard along with technical bid.

14. LICENSES AND PERMITS: Wherever applicable, the successful bidder shall ensure himself and also satisfy the Chief General Manager, Security Printing Minting Corporation of India Limited, Unit Currency Note Press, Nashik Road, 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.

**15. TRAINING:**

- i. During training the supplier should give detail training of functioning of the instrument & how to operate the instrument.
- ii. The supplier has to arrange and show the measurement of at least five references reading of each on a metal piece & printed watermark paper having depth & tactility from 10 microns to 120 microns.
- iii. The supplier should intimate the date of training well in advance.
- iv. The supplier should provide on-site training to minimum 5 persons each from CNP side and BNP side for 5 working days.

**16. FALL CLAUSE:** The price quoted for the Supply, Installation, commissioning, and testing of 3D microscope one each for CNP Nashik and BNP Dewas 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, and testing of 3D microscope of identical specification to any other party. A declaration/certificate to the 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. Placement of Purchase order/Contract/Agreement 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) Forfeiture of the EMD and
- ii) 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, excise duty, taxes, insurance, freight etc.

b) For all the purpose the Purchase order/Contract/Agreement will be considered acceptance of tender. Supplier has to abide by all the 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. Bidders has to submit Bank details i.e.

- a) Account Number :
- b) Bank Name :
- c) Branch :
- d) IFSC Code :

3	<p>FAT:(FINAL ACCEPTANCE TEST)</p> <p>Upon completion of supply, installation, commissioning, training and testing of the equipment, CNP, Nashik and BNP Dewas shall conduct the following FAT of the respective system in presence of bidder staff.</p> <ol style="list-style-type: none"> <li>1.Successful bidder has to prove that the equipment is fully complying with the technical specifications of the equipment mentioned as in Section-VII. It is the responsibility of the bidder to bring all the test materials and standard to prove the performance of the equipment to the satisfaction of on site at CNP, Nashik as well as at BNP, Dewas.</li> <li>2.FAT Testing is to be done for 5 days at respective unit.</li> <li>3.Successful bidder has to train the operative staff for usage and the equipment and maintenance of the equipment at both sites i.e. CNP, Nashik and BNP, Dewas separately.</li> <li>4.Repeatability, Reliability and Reproducibility of the equipment should be proved by the successful bidder to the satisfaction of the buyer.</li> <li>5.Successful bidder has to show that the equipment is suitable for carrying out the tests for measuring depth of intaglio design on intaglio plate, ink tactility on banknote paper/thickness of printing ink on paper/other materials(as the case may be) as per the applicable ISO standards or its equivalent. All test conditions and FAT</li> </ol>	Agree Only
---	--	------------

	<p>norms will be finalized amongst CNP and BNP with successful bidder.</p> <p>FAC:(Final Acceptance CERTIFICATE)</p> <p>Upon satisfactory completion of Final Acceptance Test, purchaser (CNP &amp; BNP) shall issue FAC (Final Acceptance certificate) for the system supplied.</p>	
--	--	--

### Lot Details

Lot Name 1	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
Design and Supply of 3D Digital Microscope	Electronics Equipment	Design, Supply, Installation, Testing and Commissioning of 3D Digital Microscope to Measure Ink Thickness, Tactility on Watermark paper and Design Depth on Intaglio plate one each for CNP and BNP	1.0Each	INR	-	-

### Lot No: 1 Specific Terms

### Lot No: 1 Price Parameters/ Formula

Variable Name	Name of Parameters	Sub Total (Example: a+b)	Type of Component	Places of decimal	Lumpsum
---------------	--------------------	--------------------------	-------------------	-------------------	---------

a	Supply of 3D Digital Microscope for CNP	-	Numeric Text Only	2	No
b	Packing and Forwarding for CNP	-	Numeric Text Only	2	No
c	Freight and Insurance for CNP	-	Numeric Text Only	2	No
d	Supply of 3D Digital Microscope for BNP	-	Numeric Text Only	2	No
e	Packing and Forwarding for BNP	-	Numeric Text Only	2	No
f	Freight and Insurance for BNP	-	Numeric Text Only	2	No
g	GST AMOUNT ON (abcdef)	-	Numeric Text Only	2	No

Price formula: a+b+c+d+e+f+g (Up to 2 Decimal Place)

### Lot Details

Lot Name 2	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
Installation, Training and commissioning of 3D Digital Microscope	Electronics Equipment	Design, Supply, Installation, Testing and Commissioning of 3D Digital Microscope to Measure Ink Thickness, Tactility on Watermark paper and Design Depth on Intaglio place one each for CNP and BNP	1.0Each	INR	-	-

**Lot No: 2 Specific Terms**

**Lot No: 2 Price Parameters/ Formula**

Variable Name	Name of Parameters	Sub Total (Example: a+b)	Type of Component	Places of decimal	Lumpsum
a	Installation and Commissioning of 3D microscope for CNP	-	Numeric Text Only	2	No
b	Installation and Commissioning of 3D microscope for BNP	-	Numeric Text Only	2	No
c	GST AMOUNT ON (a and b)	-	Numeric Text Only	2	No

Price formula: a+b+c (Up to 2 Decimal Place)

**Lot Details**

Lot Name 3	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
AMC including calibration if any after warranty period for 1st year	Electronics Equipment	CAMC for 1st year after warranty	2.0Each	INR	-	-

**Lot No: 3 Specific Terms**

**Lot No: 3 Price Parameters/ Formula**

Variable Name	Name of Parameters	Sub Total (Example: a+b)	Type of Component	Places of decimal	Lumpsum
---------------	--------------------	--------------------------	-------------------	-------------------	---------

a	CAMC for 1st year after warranty	-	Numeric Text Only	2	No
b	GST AMOUNT	-	Numeric Text Only	2	No
Price formula: a+b (Up to 2 Decimal Place)					

### Lot Details

Lot Name 4	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
AMC including calibration if any after warranty period for 2nd year	Electronics Equipment	CAMC for 2nd year after warranty	2.0Each	INR	-	-

### Lot No: 4 Specific Terms

### Lot No: 4 Price Parameters/ Formula

Variable Name	Name of Parameters	Sub Total (Example: a+b)	Type of Component	Places of decimal	Lumpsum
a	CAMC for 2nd year	-	Numeric Text Only	2	No
b	GST AMOUNT	-	Numeric Text Only	2	No
Price formula: a+b (Up to 2 Decimal Place)					

### Lot Details

Lot Name 5	Category	Lot Description	Quantity/UOM	Currency	Ceiling Price	Estimated Price
AMC including calibration if any after warranty period for 3rd year	Electronics Equipment	CAMC for 3rd year after warranty	2.0Each	INR	-	-

### Lot No: 5 Specific Terms

**Lot No: 5 Price Parameters/ Formula**

Variable Name	Name of Parameters	Sub Total (Example: a+b)	Type of Component	Places of decimal	Lumpsum
a	CAMC for 3rd year	-	Numeric Text Only	2	No
b	GST AMOUNT	-	Numeric Text Only	2	No
Price formula: a+b (Up to 2 Decimal Place)					