

Standard Bidding Document (SBD)

(Procurement of Goods and Services)

CURRENCY NOTE PRESS

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

Wholly owned by Government of India

Nashik Road - 422 101 (Maharashtra)

Tel No 00 91 253 2454493

Fax No 00 91 253 2464100

EPABX: 00 91 253 2463730-39

Email: purchase.cnpnashik@spmcil.com

Website: www.spmcil.com

Not Transferable

Security Classification: NON SECURITY

TENDER DOCUMENT FOR DESIGN, MANUFACTURING, TESTING, SUPPLY, INSTALLATION, COMMISSIONING, TRAINING AND PERFORMANCE TESTING OF THREE NUMBERS OF NUMBERING MACHINES

(Tender Sl. No.): 19/NUMBERING MACHINE/2021-22

(Date): 30.03.2022

Tender Documents is sold to:

M/s _____

Address _____

Details of Contact person in SPMCIL regarding this tender:

Name : V. KIRAN KUMAR

Designation: Joint General Manager (Materials)

Address: Currency Note Press,
Nashik Road-422 101
Maharashtra
India

Phone: 0253-2461318 /2454493
Fax : 0253-2464100
email: purchase.cnpnashik@spmcil.com

Note: The word "SPMCIL" in this SBD hereinafter is referred to as "Currency Note Press, A unit of SPMCIL."

SECTION I: NOTICE INVITING TENDER (NIT)

(Tender Sl. No.) : 19/NUMBERING MACHINE/2021-22

(Date): 30.03.2022

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

Schedule No.	Brief Description of Goods/ services	Quantity Required	Earnest Money
1.	Design, Manufacture, Testing, Supply, Installation and Commissioning of Numbering machine for Banknote printing at speed of 10000 Sheets per hour.	03 Nos.	Rs. 75,00,000 / € 90,300 / ¥ 1,05,58,000 / \$ 98,000 or equivalent currency of country of origin of goods

Type of Tender	Three bid i.e. single stage (three packet), International Competitive Bidding
Dates of sale of tender documents:	From 30.03.2022 to 16.05.2022 during office hours.
Date & time of Pre-bid Conference	20.04.2022 at 10:30:00 Hrs.
Place of sale of tender documents	CURRENCY NOTE PRESS, NASHIK ROAD
Closing date and time for receipt of tenders	17.05.2022 up to 14:30:00
Place of receipt of tenders	CURRENCY NOTE PRESS, NASHIK ROAD
Date and Time of opening of tenders	17.05.2022 at 15:00:00
Place of opening of tenders	CURRENCY NOTE PRESS, NASHIK ROAD
Nominated Person/ Designation to Receive Bulky Tenders (Clause 21.21.1 of GIT)	V. Kiran Kumar Joint General Manager (Materials)

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. Please note that SPMCIL reserves its right to grant Purchase preferences in accordance with Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018 (as amended/ revised).
4. Interested tenderers may obtain further information about this requirement from the above office selling the documents. They may also visit our website mentioned above for further details.
5. Tenderer may also download the tender documents from the web site mentioned above and submit its tender by utilizing the downloaded documents 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. Any queries regarding the tender you may please contact at 0253-261318 or 2454493 and e-mail cgm.cnp@spmCIL.com/purchase.cnpnashik@spmCIL.com.
7. Tenderers shall ensure that their tenders, duly sealed and signed, complete in all respects as per instructions contained in the Tender Documents, are dropped on or before the closing date and time indicated in the Para 1 above in the tender box located at the address given below , failing which the tenders will be treated as late and rejected. Tenders may also be sent through post at the address as above. However, Purchaser will not be responsible for any postal lapses or delays in receipt of the documents. In case NIT/ SIT provide for uploading of bids to nominated e-Procurement portal, bidders must upload their bids along with scanned copies as required enclosures (including proofs of cost of Tender Documents and EMD as applicable - unless an online payment gateway is provided in the instruction) as per instructions given in this regard. Original copies of such scanned uploaded required enclosures must reach in physical form within the date and place as provided in such instructions, otherwise their uploaded bid, would be declared as unresponsive.
8. 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.
9. The tender documents are not transferable.
10. 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).
11. Bidders are requested to attend a pre-bid conference for clarification on technical specifications and commercial conditions of the Tenders, on the time, Date and Place mentioned in Para 1 above, Participation in the Pre-bid conference is restricted to prospective bidders who have been invited to participate in the tender or who have purchased the tender documents. Participation is not mandatory, however, in case a bidder chooses not to participate (or fails to do so) in the pre-bid conference, it would be assumed that they have no issues regarding the Technical/ commercial specifications/conditions.
12. EMD amount shall be furnished in one of the following forms: a) Account Payee Demand Draft or b) Fixed Deposit Receipt or c) Banker's cheque or d) Bank Guarantee; 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 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.
13. All Bidders shall have to sign the Integrity Pact with the purchaser as per format given in Section XX; otherwise, their bids are liable to be summarily rejected.

14. Requirement of 3 no of Numbering machines is tentative. CNP may place order for either 1 or 2 or 3 no. of machine as per its requirement at the time of finalization of tender.

15. SPMCIL has appointed following independent external monitors for the Integrity pact in Consultation with Central Vigilance Commission (CVC):

1. Shri. Anil Kumar, IAS (Retd.),
House No.19, Defense Enclave,,
(Near Preet Vihar Metro Station),,
Vikas Marg, Delhi-110092.
Email ID : anilsec1953@gmail.com

2. Ms. Nirmal Kaur, IPS (Retd.),
D-I/12, Nepal House,
Doranda,
Ranchi-834002
Email ID : nirmalkaur1983@gmail.com

16. Tenderers shall ensure that their tenders, duly sealed and signed, complete in all respects as per instructions contained in the Tender Documents, are dropped in the tender box located at the address given below on or before the closing date and time indicated in the Para 1 above, failing which the tenders will be treated as late and rejected.

Address:

The Chief General Manager
CURRENCY NOTE PRESS,
NASHIK ROAD, NASHIK-422 101,
MAHARASHTRA, INDIA

(V. Kirankumar)
Joint General Manager (Materials)
For and on behalf of Chief General Manager
Currency Note Press, Dewas
Tel No 00 91 253 2454493
Email : purchase.cnpnashik@spmcil.com

SECTION II: GENERAL INSTRUCTIONS TO TENDERERS (GIT)

Part I & II: General Instructions Applicable to all Types of Tenders

Please refer to our website for:

<http://spmcil.com/spmcil/uploaddocument/GIT.pdf>

GIT (Total pages: 61)

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.)

S. No	GIT Clause No	Topics	SIT Provision
1	8	Pre-bid conference	Pre-bid conference will be held at CNP Nashik on 20.04.2022 at 10.30 AM (IST). All the queries should reach CNP at least two days ahead, i.e. by 18.04.2022 .
2	11.2	Tender Currency	Indian Rupees / Euro / JPY / USD or currency of country of origin of goods.
3	18.5	Earnest Money Deposit	The bidders have to submit EMD as specified in Section I NIT & Section VI list of requirement. The earnest money (EMD) should be valid for a period of 545 days.
3	19	Tender Validity	The tenders shall remain valid for acceptance for a period of 180 days from the date of tender opening. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
4	20.8	Submission of tender	Pre-qualification Bid, Techno-commercial bid and financial bid are to be submitted in three separate doubled sealed envelopes on or before the due date of submission of tenders. IT MAY BE NOTED THAT THE TENDER FORM FEE AND EMD IS TO BE ENCLOSED IN PRE-QUALIFICATION BID PACKET. Further the price is not to be quoted in the pre-qualification bid or technical bid. It shall only be quoted in price bid. Non-adherence to this shall make tender liable for rejection. The envelopes containing bids shall be super scribed "Pre-qualification Bid," "Technical Bid" and "Price Bid", as the case may be, for -----.

			<p>The sealed envelopes shall again be put in another sealed cover and should be super scribed “TENDER DOCUMENT FOR Design, Manufacturing, Testing, Supply, Installation, Commissioning, Training and Performance Testing of two numbers of Numbering Machine DUE ON 17.05.2022 UPTO 15:00 HRS (IST)”. Late tenders shall not be accepted. Tenderers shall submit their offers only on prescribed forms. Tender by telegram/ fax/e-mail shall not be accepted. Tender by post/ hand/ courier received on or before the due date and time shall be accepted. Postal delay/ delay by courier service etc. shall not be condoned</p>
5	20.9	E-procurement	Not contemplated
6	24.4	Opening of Tender	<p>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 Pre-Qualification Criteria at Section IX of the tender document. 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 opening of Technical and</p> <p>Financial bids shall be given to acceptable tenderers to enable them to attend the technical and financial bid opening, if they so desire.</p>
7	34	Comparison on Destination basis. CIF	<p><u>Supplement with the following:</u></p> <p>Price bid evaluation: In case of Indigenous offer, the prices quoted shall be compared on a total price basis (FOR CNP, Nashik), including all taxes, duties, packing and forwarding charges, freight, insurance,</p>

			<p>Installation, Training, Commissioning etc. as per the prices quoted in price schedule at Section XI.</p> <p>In case of Imports offer, the tenderer will be required to quote on <u>FOB/FCA as well as CIF and CIP</u> basis. The CIF price will be multiplied by the exchange rate between Indian Rupees and the quoted Foreign Currency, prevailing on the date of <u>opening of the price bid</u>. The applicable rate will be “BC selling rate” of State Bank of India. Custom duty, Social Welfare Surcharge plus IGST, as applicable, (Present rate is 24.49 %) on accessible value (CIF Value) will then be added on the CIF price, thus converted into Indian Currency. On this net price <u>2%</u> will be added towards Charges for port clearance and forwarding charges and inland freight up to destination to arrive at the total price of the machine and its accessories (landed price). Apart from the above, the other charges mentioned by the tenderer for installation, commissioning, training etc. will be added.</p> <p>For comparison of import offer with the indigenous offer, total price of indigenous offer, shall be compared with the total price of import offer, including installation, commissioning & training charges.</p> <p>The tenders received and accepted will be evaluated to ascertain the best and lowest offer (L1) on Landed cost basis, for the complete supply and installation covered under the technical specification and documents.</p>
8	35.2	Additional factors for evaluation of offers	<u>Not Applicable</u>
9	40	purchaser’s right to accept tender	<u>Supplement with the following:</u> The purchaser also reserves its right to summarily reject offers received from any bidder, on National Security consideration.
10	43	Parallel contracts	Not applicable
11	50.1, 50.3	Tender for rate contracts	Not applicable
12	51.1, 51.2	PQB Tenders	Pre-Qualification criteria as per section IX of SBD.
13	52.1,	Tenders involving	Not applicable

	52.3, 52.5	purchaser's and pre- production samples	
14	53.4, 53.5, 5.3.7	EOI Tenders	Not applicable
15	54.3.1, 54.2.1	Tenders for Disposal of Scrap	Not applicable
16	55.2, 55.3, 55.7, 55.8	Development/ indigenization Tenders	Not applicable

SECTION IV: GENERAL CONDITIONS OF CONTRACT (GCC)

Part I: General Conditions of Contract applicable to all types of Tenders

Please refer to our website for:

<http://spmcil.com/spmcil/uploaddocument/GCC.pdf>

GIT (Total pages: 36)

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.

S No	GCC Clause No	Topics	SCC provision
1	16	Warranty	<p>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 SPMCIL 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 SPMCIL'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.</p> <ol style="list-style-type: none"> 1. 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 SPMCIL in terms of the contract. The warranty period shall start from the date of issue of FAC (Final Acceptance Certificate) by the concerned unit of SPMCIL. 2. In case of any claim arising out of this warranty, SPMCIL shall promptly notify the same in writing to the supplier. 3. Upon receipt of such notice, the supplier shall, with all reasonable time (Downtime of Machine should not be more than 10 Working days), 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

			<p>lie on SPMCIL for such replaced parts/ goods thereafter.</p> <p>4. 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 SPMCIL.</p> <p>5. If the supplier, having been notified, fails to rectify/ replace the defect(s) within the period, as specified above, SPMCIL may proceed to take such remedial action(s) as deemed fit by SPMCIL, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which SPMCIL may have against the supplier.</p>
2	20.1	Price Adjustment clause	Not applicable
3	21.2	Taxes and duties	If the tenderer fails to include taxes and duties in the tender, no claim thereof will be considered by purchaser afterwards. Income Tax (TDS as applicable on installation, commissioning and training in India, if leviable, shall be borne by the tenderer.
4	22,22.1, 22.2, 22.4, 22.3, 22.6	Terms and mode of payment	<p>1. Indigenous supplier:</p> <p>(a) 80% payment of cost of material shall be made against actual receipt of Machine in acceptable condition with bill in triplicate at CNP Nashik.</p> <p>(b) Balance 20% payment of cost of material and 100% cost of installation, commissioning and training charges will be made, after deduction of TDS (Tax Deducted at Source) as per prevalent rates, after complete installation and commissioning, successful demonstration of performance and acceptance of the machine and on the issue of the FAC.</p> <p>2. Foreign supplier:</p> <p>100% Payment shall be made through irrevocable letter of credit to be opened by purchaser through a Commercial Bank in favour of SELLER in the following break up.</p>

		<p>(a) 80% of cost of material shall be arranged on receipt of the following documents :</p> <ol style="list-style-type: none"> i. Complete set of clean Bill of Lading/Airway bill must show that the complete goods have been actually shipped on board. ii. Signed invoices in sets of quadruplicate stipulating specification reference for item indicating cost and quantity. iii. Certificate of Country of Origin, issued by Chamber of Commerce. iv. Copies of packing list in triplicate stipulating individual items, quantity, weight and dimension details of each packing case. v. Inspection Certificate. If inspection certificate has been waived, then Quality Test Certificate. vi. Two sets of nonnegotiable dispatch documents, to be sent by courier services to the PURCHASER immediately after dispatch of consignment. vii. Catalogue, technical write up/literature for customs clearance purpose. viii. Certificate of No Agency Commission payable to any Indian agent involved in this transaction. ix. Dangerous Cargo Certificate, if any <p>(b) Balance 20% payment of cost of material and 100% cost of installation, commissioning and training charges will be made, after deduction of TDS (Tax Deducted at Source) as per prevalent rates after complete installation and commissioning, successful demonstration of performance and acceptance of the machine and on the issue of the FAC by CNP, Nashik.</p> <p>(c) Bank charges:</p> <ol style="list-style-type: none"> i. All bank charges for opening of Letter of Credit in respect of PURCHASER's bankers shall be borne by PURCHASER and those charged by SELLER's bankers shall be borne by the SELLER. ii. The charges of extension of Letter of Credit or any confirmation if attributable to SELLER shall be paid by SELLER and not by the PURCHASER. iii. The negotiating bank of the SELLER should give
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			5 clear working days (in India) notice to the Letter of Credit opening bank and the PURCHASER regarding the value and date of payment.
5	24.1	Quantum of LD	If the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, SPMCIL shall, without prejudice to other rights and remedies available to SPMCIL under the contract, deduct from the contract price of individual machine, as liquidated damages, a sum equivalent to the 0.5% percent of the delayed goods and services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10% of contract price of individual machine. During the above mentioned delayed period of supply and performance, the conditions incorporated under GCC sub-clause 23.4 shall also apply. In all such cases applicable taxes like GST@18% would also be applicable on the LD amount.
6	25.1	Bank Guarantee and insurance for material loaned to contractor	Not applicable
7	36.3.2, 36.3.9	Disposal/ Sale of Scrap by Tender	Not applicable

SECTION VI: LIST OF REQUIREMENTS

Schedule No.	Brief Description of Goods/ services	Quantity Required	Earnest Money
1.	Design, Manufacture, Testing, Supply, Installation and Commissioning of Numbering machine for Banknote printing at speed of 10000 Sheets per hour.	03 Nos. For CNP	Rs 75,00,000/ €90300 /¥ 10558000/ \$ 98000 or equivalent currency of country of origin of goods

1. EMD Validity: The EMD shall be valid for a period of 545 days from the date of submission of offer. Any short validity, the tender shall be treated as unresponsive.
2. Required Delivery Period for the all the schedules:
 - a. The machines of the respective schedules must be ready for Pre-dispatch inspection from the date of placing of purchase order (for indigenous bidders) and from the date of opening of Letter of Credit (For foreign bidders).

For indigenous bidder	For foreign bidder
1 st machine within 32 weeks	1 st machine within 32 weeks
2 nd machine within 38 weeks	2 nd machine within 38 weeks
3 rd machine within 44 weeks	3 rd machine within 44 weeks

- b. The machines of the respective schedules must be dispatched within 7 weeks from the date of completion of pre-dispatch inspection. If the delivery of any minor part is delayed, but commissioning of the machine is not affected and is completed in due time, the date shall be considered as delivered in due time.
 - c. Installation, commissioning to be started within 30 days from the date of receipt of machines at stores of CNP Nashik. The entire machine of the respective schedule should be installed, commissioned and tested within 16 weeks at CNP Nashik from the date of receipt of machine at the stores.
 - d. The stores will have to be supplied as specified in the contract/ supply order from the date of PO/opening of Letter of Credit. The overseas supplier shall deliver the stores ordered on F.O.B. port of shipment/ Airport basis/CIF basis.
3. Required Terms of Delivery, Destination and preferred mode of Transportation
 - a. For Overseas supplier: Delivery on FOB/CIF basis.
 - b. For Indigenous supplier: Delivery on FOR basis.
 4. Foreign nationals desirous of attending tender opening should forward their bio-data/ passport, visa details along with the bids.

5. The firm should submit complete technical documents, leaflets, machine drawings, erection drawings, etc. with the technical offer.
6. All the copies of tenders shall be complete in all respects with all their attachments/enclosures duly numbered.
7. The tenderer shall quote for the installation, commissioning and training charges for all the schedules separately.
8. The total cost inclusive of all elements as cited above on FOB and on FOR Currency Note Press, Nashik Road (Maharashtra), India, basis should be indicated clearly both in words and figures in the price bid.
9. Income Tax (TDS) on installation, commissioning and training in India, if leviable, shall be borne by the tenderer.
10. Price bid should be submitted as per format in Table A, B, C & D Rate quoted should be on firm price basis. Vague offers like "duties as applicable" shall not be considered.
11. **AFTER SALES SERVICE:** It must be clearly indicated in the quotation whether the after sales service shall be provided by supplier or by their authorized Indian office after satisfactory installation/ commissioning of the machine and expiry of guarantee/warranty period. All terms and conditions related to after sales services must be clearly mentioned.
12. The successful bidder shall provide documents/drawings for site preparation after placement of the LOI/Contract.

13. SPARE PARTS:

The bidder firm shall submit list of recommended spare parts required for trouble free operation of machine for 02 years. The list should indicate detailed description of item, identification number and quantity. The list should be un-priced along with technical bid and priced along with commercial bid of the respective schedules. The price of these spare parts will not be taken into account for deciding lowest offer; however the offered unit price of these spares shall remain fixed/unchanged for 03 years after expiry of warranty period.

The SELLER shall supply commissioning spares, consumables as may be required during installation, testing till completion of successful commissioning and commencement of regular operations.

14. Performance Guarantees:

The SELLER shall have to demonstrate and achieve the performance guarantee values for various units/ sub-units with regards to the output and quality of the intermediate and finished products. Performance of the unit as a whole on an integrated basis shall be demonstrated in a test run at the premises of the PURCHASER. The SELLER shall supervise and direct the operation during performance guarantee tests and shall take full responsibility in this regard. During the performance guarantee tests, & necessary consumables have to be provided by the SUPPLIER and the PURCHASER shall make available necessary operating and maintenance personnel.

15. 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.

16. LICENSES AND PERMITS:

Wherever applicable, the successful bidder shall ensure himself and also satisfy the Purchaser that the successful bidder possesses the legal licence / 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.

17. PRE-DISPATCH INSPECTION:

At the discretion of Chairman and Managing Director, SPMCIL through Chief General Manager, CNP, Nashik, three authorized officials from unit will carry out Pre-shipment inspection at the manufacturer's site for the machines for five working days. The expenditures towards inspection shall be borne by the successful supplier, whereas the other expenses shall be borne by Purchaser.

18. TRAINING:

The supplier shall initially provide 15 working days training regarding operation, maintenance and software applications to six personnel from CNP, Nashik at the manufacturer's site for the machines. The expenditures towards training shall be borne by the successful supplier, whereas the other expenses shall be borne by Purchaser. The supplier shall also provide 15 working days training regarding operation, maintenance and software applications to nominated employees at CNP Nashik.

19. FALL CLAUSE:

The price quoted for the design, supply, installation, testing and commissioning of respective schedule of Numbering 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 Numbering machine of identical specification to any other party. A declaration/ certificate to this effect will have to be furnished along with the Price Bid.

20. 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.

21. REQUIREMENT:

Requirement of 3 no of Numbering machines is tentative. CNP may place order for either 1 or 2 or 3 no. of machine as per its requirement at the time of finalization of tender.

SECTION VII: TECHNICAL SPECIFICATION

NUMBERING MACHINE

- 1. Brief Description**
- 2. Essential General Specifications**
- 3. Modules**
 - 3.1 Feeder & Register Unit
 - 3.2 Printing & Inking Unit
 - 3.3 Numbering system
 - 3.4 Delivery Unit
 - 3.5 Online Numbering quality and Verification System
 - 3.6 System for monitoring Production data
 - 3.7 Remote inking electronic keys
 - 3.8 Thermoregulation unit
 - 3.9 Online varnish coating (Optional)
 - 3.10 UV Curing unit (Optional)
 - 3.11 Suitable pile breaker/Jogger (Optional Item)
- 4. Maintenance**
- 5. Electrical and Electronic Control**
- 6. Safety**
- 7. Accessories required per Machine**
- 8. Auxiliary units**
- 9. Documents requirement**

1. BRIEF DESCRIPTION

Currency Note Press, Dewas (A Unit of Security Printing and Minting Corporation of India Limited), wholly owned by Government of India intends to procure two nos. of Numbering Machine with retrofitment facility of Varnish coating unit as per the details given below:

- 1.1 The high-speed automatic sheet fed two colour rotary Letterpress Numbering machine designed for the printing of variable data such as alpha numerals for the printing of Banknotes and other high security documents on one side of the sheet.
- 1.2 Automatic sheet fed numbering machine shall be suitable for numbering of Banknotes and other security documents in top & bottom panel through single impression cylinder.
- 1.3 Super-Size numbering machine capable of printing a Maximum sheet size of 700mm X 820 mm.
- 1.4 Numbering machine should be compatible with the existing infrastructure/utilities presently available with SPMCIL presses.
- 1.5 Numbering system and boxes meeting the revised banknote numbering specifications (Exploding font) shall be supplied along with the machine. Numbering system shall be suitable for computerized random numbering with the automatic wheel position adjustment for at least ten motorized wheels.
- 1.6 Numbering machine shall employ a wide range of automatic mechanisms and electronic controls, for providing high productivity.
- 1.7 Machine should be made with a robust bed, frame and supports in order to provide the necessary structure to withstand pressure while printing.
- 1.8 Ultra Violet Curing unit shall be provided in the numbering machine capable of drying UV based numbering inks (optional item).
- 1.9 Machine counter: Shall have counters for continuous recording of number of impressions / machine hours.
- 1.10 The numbering machine shall have retrofitment facility for varnish coating with UV drying system. The drying system shall be compatible for UV curable varnish.
- 1.11 Numbering machine shall be suitable for printing at least good quality 54000 sheets in 8 hours per day shift operation.
- 1.12 At the end of the shift, report should be generated for rejected note/wrong numbered sheets, if any.
- 1.13 Provision should be available for delivery of rejected note/wrong numbered sheets in the test/third pile or pile 1 or pile 2
- 1.14 Machine should have provision/facility to incorporate new security features of bank notes by retrofitting additional equipment, if required.

2. ESSENTIAL GENERAL SPECIFICATIONS:

- 2.1 Shall be suitable to handle all types of bank note substrates- 100% cotton furnish, Polymer, Hybrid, Durable Paper etc.
- 2.2 Maximum printing speed shall be at least 10000 SPH.
- 2.3 Maximum Mechanical speed shall be at least 10000 SPH
- 2.4 Machine should have the crawl speed facility for safe cleaning of the press.
- 2.5 Shall be suitable for maximum sheet size of 700 mm X 820 mm and minimum sheet size of 475mm X 600 mm.

- 2.6 Shall be suitable for a carrying out numbering on a substrate with a GSM ranging from 70 to 100.
- 2.7 Shall be suitable for a maximum print area of 665 mm (Circumferential) X 800 mm (Lateral).
- 2.8 Gripper margin shall not exceed 25 mm.
- 2.9 Noise Level should be less than 85 dBA at main working areas of the press during running of the machine at all speeds.
- 2.10 Suitable for uninterrupted production for at least 10 years in two shift operation without any overhauling.
- 2.11 Numbering ink consumption shall not exceed existing pattern of consumption.
- 2.12 Numbering cylinder, Impression cylinders shall be protected to prevent fretting of the cylinder over the entire life of the press.
- 2.13 All components shall resist corrosion, erosion, etching and pitting when contacted by printing inks, cleaning solution(s) normally encountered during numbering operations.
- 2.14 Suitable pile breaker/Jogger for making CWBN paper free from stickiness (Optional Item)
- 2.15 The machine shall perform efficiently under following working conditions:
 - i. Available Electric power supply: 3 Phase AC, 50 Hz \pm 3%, 415 Volts \pm 10%.
 - ii. RH : 50% to 65%
 - iii. Temperature : 22°C \pm 2°C
- 2.16 The firm should provide the technical specification of all type of consumables to be used on machine within 120 days from the date of Purchase order/contract/Agreement along with 10 nos. of sample piece of each variety to enable bulk procurement.

3. MODULES:

- 3.1 Feeder & Register Unit
- 3.2 Printing & Inking Unit
- 3.3 Numbering system
- 3.4 Delivery Unit
- 3.5 Online Numbering Quality & Verification system
- 3.6 System for monitoring Production data
- 3.7 Remote inking electronic keys
- 3.8 Thermoregulation Unit: The Thermoregulation unit should be complete in all respects including refrigeration/chiller unit
- 3.9 Online varnish coating (Optional)
- 3.10 UV Curing unit (Optional)
- 3.11 Pile breaker / Jogger for making CWBN paper free from stickiness (Optional)

3.1 Feeder & Register Unit:

- 3.1.1 Non-stop stream feeder capable of running at production speed of 10,000 sheets per hour with a capacity to pile at least up to 10,000 sheets or more.
- 3.1.2 Shall have the facility for pre-piling device and auxiliary pile (preparatory pile/pre-piler/pre-loader).
- 3.1.3 Shall have the facility for elimination of static electricity.
- 3.1.4 Shall have pile side guide.
- 3.1.5 Shall be fitted with suitable sheet separation mechanism and blast nozzles to ensure trouble free feeding.

- 3.1.6 Shall be suitable for accommodating trouble free feeding of sticky, wavy sheets, marginally mis-aligned sheets.
- 3.1.7 Sheet Control systems with sensors for uninterrupted production with following arrangement.
- i. Position monitoring system
 - ii. CWBN Paper Notch sensor (should be adjustable as per the job)
 - iii. Double sheet detection system for effective double sheet detection & control.
 - iv. Sheet Side lay device
 - v. Pre-front lay device
 - vi. Front lays
 - vii. Transfer control mechanisms
 - viii. Colour sensor for differentiating trial paper and Banknote paper
 - ix. Crash sheet control mechanisms to avoid overloads.
 - x. Inverted sheet detector
 - xi. Full sheet detection system before numbering.

3.2 Printing and Inking Unit:

- 3.2.1 The numbering machine shall have at least two numbering cylinders with counter weights and single impression cylinder suitable to number banknotes up to 60 UPS (6 X 10 format) on each cylinder.
- 3.2.2 The impression cylinder shall have suitable mechanism and easy accessibility for mounting of impression blankets and packing.
- 3.2.3 The press shall be equipped with an inking system to permit numbering with not less than two independent inking units each applying individual inks (colours).
- 3.2.4 Each inking unit shall include modular type leak-proof ink fountain, unobstructed ink metering mechanism, and ink application device.
- 3.2.5 The inking unit shall be capable of performing the following functions:
- i. All parts of inking units including bearings, gears and other related parts shall be resistant to long term corrosive/abrasive action of inks and cleaning solution(s).
 - ii. Critical components of machine shall be suitably covered/protected from the ink spillage.
 - iii. Permit the use of both fountains selectively and when an inking fountain is not in use, it shall not be driven.
 - iv. Permit fine and coarse metering of ink onto transfer rollers via individually adjustable keys.
 - v. Each key shall be individually controllable from full open to close. At full closure, no ink film shall be transferred.
 - vi. Fountain cheeks shall not warp and shall be made out of replaceable leak tight, longwearing, non-scoring material.
 - vii. Each fountain shall be equipped with pneumatic driven ink agitators to distribute and maintain the homogeneity of the ink in the fountain and prevent it from backing up in the fountain. The ink agitator shall agitate the ink over the full width of the inker. The drive shall be robust.
 - viii. Have easy access for roller mounting, cleaning and inspection.
 - ix. Shall be equipped with suitable inker cleaning device to clean the inker after production.

- x. On the press cleaning device for numbering boxes shall be provided.

3.2.6 Inking unit shall consist of the following:

1. 2 ink fountains.
2. 2 duct rollers with suitable coating with a compatibility to thermo regulation unit.
3. Inking rollers for appropriate transfer of ink.
4. 2 ink agitators.
5. Automatic ink key control.
6. Duct roller and ink roller cleaning device for both inking ducts.
7. Ink duct blades for all ink ducts.
8. Waste Ink collecting trays for all ink ducts.
9. Side seals Left & Right (2 sets).
10. Conveniently positioned lifting devices for handling numbering cylinders.
11. Automatic nip pressure adjustment for form rollers and impression.

3.3 **Numbering System:**

- 3.3.1 Computerized numbering system with random numbering boxes along with accessories to enable random numbering on sheets up to 60 ups in each numbering station.
- 3.3.2 Shall be capable to number up to two panels in the same side of the banknote. The numbering system shall be capable to number all Indian currency/banknotes Re1/-, Rs.5/-, Rs.10/-, Rs.20/-, Rs.50/-, Rs.100/-, Rs. 200 /-, Rs.500/- and any other denominations as per requirement.
- 3.3.3 The numbering system shall have the capability to automatically (motorized) change at least 10 wheels in the numbering box.
- 3.3.4 The system shall generate the numbering layout for the first start up sheet for each job.
- 3.3.5 The system shall detect wrong positions of prefix and suffix during setup and faulty switching at printing process and shall identify immediately to avoid wrong numbering. Wrong numbers position shall be displayed on the monitor and machine to be stopped for wrong printing.
- 3.3.6 The system shall synchronize the operation of both the numbering shafts and shall prevent any wrong numbering mistakes.
- 3.3.7 System shall communicate numbering errors with monitoring system for records.
- 3.3.8 Pre-inking to be done automatically (initial and intermittent).
- 3.3.9 The numbering system shall have offline numbering box testing device.
- 3.3.10 Successful bidder will be required to modify the software, if required, for numbering the sheets suiting to the single banknote processing systems.

3.4 **Delivery Unit:**

Delivery unit shall be equipped with all facilities such as proper delivery chain mechanism, mechanism for opening of delivery gripper to ensure delivery of sheets in the appropriate piles, suction and blowers to ensure proper alignment and jogging of sheets, mechanism for over shoot/jamming of sheets, rear and lateral sheet stops, sheet guiding drums, suitable sensors for counting, selection of pile, auto movement of piles, pile movement limitations.

1. Shall have minimum three pile delivery systems with two piles for regular delivery pile and one pile for test sheet/reject delivery.
2. Regular delivery pile shall have sufficient space to contain 5000 sheets in each pile.
3. The pile delivery system shall permit continuous piling by changing the pile from one to the other automatically according to the number of sheets required on each pile, which has been preset on the counter. Defective sheets shall be delivered onto the sampling/reject pile when a signal of rejection is received from inspection system or the sampling push button is pressed by the operator.
4. Shall have air ducts, suction wheels, static eliminators and sheet joggers to ensure proper delivery and alignment of sheets.
5. Shall have provision of on-line drawing of test sheet for quality checks.
6. Along with machine firm will supply 50 nos. of pallets.

3.5 Online Numbering quality and Verification System:

1. The system shall be suitable for checking number print quality at a machine speed of 10,000 printed sheets per hour. Online Inspection shall be synchronized with the running speed of the machine.
2. The system shall be suitable for a maximum sheet size of 700 x 820 mm and maximum print size of 665 X 800 mm with 15 / 25 mm gripper margin.
3. The system shall be suitable for up to 60 printing ups notes on each printed sheet.
4. The system shall be suitable for checking print quality of serial numbers consisting of 9/10 alphanumeric characters with a panel length of maximum up to 42 mm.
5. The system shall be suitable for checking number print quality of banknotes in two panel printing on each banknote.
6. System shall ensure that the background printing (with or without inset letter) over which serial numbering is done shall not have any impact on the quality of inspection of serial numbers.
7. The system shall have a resolution of at least 300 DPI/ 0.1 mm. The alphanumeric serial number inspection camera to be used shall be of latest version of colour camera and be capable of working in RGB mode.
8. The system shall be capable to stop the printing machine with user defined conditions.
9. The system shall be protected against power failure and voltage fluctuations. In case of power failure the power backup required by the system should be commensurate with the adequate protection of data generated.
10. The system shall have an alarm to alert the operator when a sheet is classified defective without machine stoppage.
11. The system shall check number print quality of serial numbers during printing.
12. The system shall check for tear or missing paper on serial number printed regions to the extent it affects reading of the number.
13. The system shall check registration of the serial numbers w.r.t reference mark. The identification mark shall be the inset letter present behind the serial number or the Intaglio print present near the serial number.
14. The system shall check registration of the serial numbers w.r.t identification mark in vertical and horizontal direction.
15. The system shall check for smudging and smearing of the serial numbers.
16. The system shall check serial number for light ink, insufficient printing.

17. The system shall check mismatch of serial numbers in the same bank note. The system shall check for mismatch for both the prefix and the serial numbers and, shall stop the machine when a mismatch is found and alert the operator in such a condition.
18. The system shall check numbering sequence i.e. that the numbering on the watermark sheets is happening in the serial (descending or Ascending order) according to Universal or CRN Numbering system; if not the same shall be alerted to the operator and the system shall stop the machine.
19. The system shall perform serial number inspection of printed sheets of different sizes and different ups irrespective of the dimension of the sheet.
20. Unless already detected by any other device fitted to the numbering machine:
 - i. The system shall check if the sheet has been fed with the back face of the sheet in the top orientation and shall classify such sheet as defective.
 - ii. The system shall detect and reject mis-oriented sheets with serial numbers printed out of tolerable registration limits.
 - iii. The system shall detect folded sheets, corner folds and also detect and reject if the printed region falls in the folded corner.”
21. The system shall detect mis-alignment in numbering and shall stop the printing machine when the misalignment is observed.
22. System shall be suitable for any type of numbering pattern i.e., uniform sized digits in all number positions or Ascending or Descending numbering (exploding numbering pattern) of varying dimensions in different digit positions, horizontal & vertical numbering etc.
23. The system shall be compatible for inspecting star numbered sheets.
24. The system shall compare the numbering Run chart details with the actual numbering of watermark sheet and stop the machine if sheet is getting printed with the wrong run chart or if a wrong run chart is entered by the operator in the Inspection system. The Run chart check should be robust and must check both the prefix part and the serial number part (Real time number verification).
25. Trouble shooting guide for hardware and software with possible remedies for both operatives and service personnel.
26. The system shall count only watermark sheets and not the blue sheets in the production counter.
27. The system shall provide a sheet report and note report providing the serial numbers of defective notes.
28. The system shall provide Manual review facility for the numbers printed on sheets.
29. The system shall have the provision for adjusting tolerance limits of different parameters of serial number printing.
30. The system shall provide a shift report providing the number of sheets inspected, numbers of sheets classified as defects and number of blue sheets inspected by the system.
31. The system shall be easy to maintain. The changeover of the system during change of denomination shall take very minimal time.
32. The system must have a 100% duty cycle i.e. 24 hrs a day and 7 days a week.
33. The system shall be easy to operate without affecting production with a facility to run the machine in normal mode with inspection system shut off.

34. The system shall stop the machine when the particular run is complete and an error popup would appear if the machine prints sheets exceeding the run limit.
35. Different run schemes should be provided and each run scheme shall be possible to be saved in a different profile. It should also be possible to create new Run schemes for different ups easily without involving much system downtime.
36. The system shall have minimal mechanical changeover task.
37. The system shall contain a watch dog which would stop the machine if there is an error with the system Software/Hardware and shall have the data logging facility for at least 15 days.
38. The system shall have common console desk containing monitors to indicate the status of inspection and interfacing with existing system of Numbering machine.
39. The system User Interface (UI) shall be operator friendly easy to control both machine and the inspection system.
40. The system UI shall display and store the details of sheets inspected, sheets accepted and sheets rejected due to quality flaws and also serial numbers of rejected notes with respect to the working shift.
41. The system UI shall print the details of sheets inspected, sheets accepted, sheets rejected and serial numbers of rejected notes when required by the user with respect to the working shift. It should be possible to print reports for each parcel or each pile.
42. The system UI shall display detailed statistics of rejected notes with their serial number and reason for rejection for each working shift.
43. The system UI shall display failure alarms.
44. The system UI shall have facility to save different Runs under different profiles which can be renamed as required.
45. Title of the current running denomination/set of prefixes and no. of sheets to complete run needs to be displayed.
46. Faults encountered leading to stoppage of the machine shall be displayed with fault description and location, and for each fault code corrective action shall be displayed by the system.
47. The history of errors and activity encountered by the system shall be logged.
48. The system to have provision to transfer the inspection details along with the defective note positions in offline mode like CDs, USB ports etc.
49. Service support should be provided for next 10 years by OEM.
50. Latest version of color camera shall be used.
51. System shall be latest version of PC based. Commonly available PC and peripherals are to be used.

The above requirements are indicative and in case of any superior system are offered which meet the actual operational and functional requirement, same will be considered.

3.6 System for monitoring Production data:

1. Production, machine maintenance and quality related data should be collected by a central data collection service.
2. All relevant data should be easily accessible locally at the press.
3. For further analysis bidder shall provide any source code required for MIS development.
4. Shall be compatible for interfacing with track- & trace facilities.

5. Shall provide data logging facilities module-wise to enable the user to identify and analyze the reasons for stoppages and breakdowns.
6. Shall have the facility to alert the user with the various maintenance and operational schedules such as preventive maintenance schedules, blanket change, numbering box change.
7. A system to monitor and collect the relevant printing information from the banknote printing press and display it in forms to assist the operators for more efficient production.
8. System shall comprise of the following hardware and software configuration.

3.6.1 Hardware:

- a) Main computer unit with LCD / LED monitor
- b) Printer
- c) Extended communication PCB / COMPUTER (for communication with PLC)
- d) Public and private TCP/IP based data communication infrastructure. This infrastructure will be used to fetch data from machine to other customer software for further ERP and Business Decision.

3.6.2 Software:

1. Shall have suitable security protection for start-up.
2. The system shall record the errors such as Motor overload, Abnormal state of oil, Actuation of Serious Defect Detectors etc., with the date and time of occurrence.
3. In the event of a malfunction of the press, the troubleshooting function shall provide its reason/solution on the display monitor.
4. The replacement cycle of Lubrication filter/oil, Hydraulic filter/oil Pump filter (feeder/delivery) shall be controlled and a warning signal shall be displayed when the item is due for replacement.
5. System shall monitor the machine running state.

3.6.3 It shall monitor and display the state/location of the items such as:

1. Safety covers/guards
2. Guard for the manual pre-turning handle
3. Stop buttons
4. Abnormal state of oil (lubrication oil, hydraulic oil)
5. Motor overload

3.6.4 System shall monitor the machine running state.

- a) Software should detect the position of error occur and be able to indicate probable solution within the error message description.
- b) All System PC should be installed with latest version of antivirus.
- c) One spare laptop should be given for storing all PLC/ Drive data for recover all functions in future. The Spare laptop should contain all concern software and antivirus with DVD writer.
- d) All Computer (Control Console, Labeling, Service laptop) Image Back up Software (licensed version) should be given with the machine. All Computer Image backup need to supply along with the machine in a separate portable Hard Disk. Hard Disk to be provided along with Machine. Customer can be able to take image backup of the entire computer and can run the image to restore computer whenever is necessary. Demonstration of recovery from

backup image to be executed during FAT.

- e) System source should be in open platform to adapt SCADA/Track trace platform to watch machine performance independently from remote place.
- f) It shall monitor and display the state/location of the items such as:
 - i. Safety covers/guards
 - ii. Guard for the manual pre-turning handle
 - iii. Stop buttons
 - iv. Abnormal state of oil (lubrication oil, hydraulic oil)
 - v. Motor overload

3.6.5 Production Management System:

The machine production state as follows shall be controlled and displayed on the monitor screen.

- 1. Printing time on production sheets
- 2. Printing time on test sheets
- 3. Idle running time
- 4. Stoppage time (can be categorized manually into the following items)
 - i. Printing preparation
 - ii. Waiting time for materials
 - iii. Malfunctions of the machine
 - iv. Waiting time for other reasons
 - v. Emergency stop
 - vi. Stoppage by any accident
 - vii. Temperature indicators for various places of printing unit.

3.6.6 System shall be suitable for recording of the following items:

- 1. Operation management number (job numbers, etc.)
- 2. Number of sheets fed into the printing unit by the swing gripper mechanism.
- 3. Number of impressions of the impression cylinder
- 4. Number of sheets delivered to the first delivery pile
- 5. Number of sheets delivered to the second delivery pile
- 6. Number of sheets delivered to the sampling pile
- 7. Number of sheets printed
- 8. Number of test sheets used for printing adjustment

3.6.7 Overall software of the production management system should be simple, durable and light platform to view and check old log files without system hang/crash.

3.7 Remote inking electronic keys:

The inking system shall have remote control adjustment of inking in roller and numbering cylinders. Automatic adjustment of ink fountain should be possible using remote control inking keys system.

3.8 Thermoregulation Unit:

Press shall be provided with a suitable thermoregulation unit compatible with the numbering press being offered which shall be placed in an appropriate position for controlling the heating / cooling of the various cylinders of numbering machine. Thermoregulation unit should be complete in all respect including chilling/refrigeration unit.

The Thermoregulation unit should be complete in all respects including refrigeration/chiller unit. The thermoregulation unit should have the followings of suitable capacity:-

- a) Air cooled condenser
- b) Hermetic sealed compressors
- c) Electronic/ thermostatic expansion valve
- d) Evaporator
- e) Suitable control & safety's for refrigeration / chiller unit
- f) Temperature & Pressure measuring devices for refrigeration / chiller

3.9 Online varnish coating (Optional):

On line varnishing module along with all required accessories to apply varnish by flexographic process on obverse as well as reverse side of the sheet along with suitable drying system compatible for UV curable varnish. Varnishing shall be applied in line after numbering.

3.9.1 The Varnish Coating unit (optional) shall consist of following modules:

- i) Flexographic Printing unit consisting of Form cylinder for mounting flexographic plate, Anilox roller, Chambered blade system, Varnish supplying unit etc.
The anilox roller shall be easily exchangeable and shall be ceramic made engraved with hexagonal cell structure suitable for coating thickness in the range of 2.0 to 3.0 microns each side.
- ii) Lateral and Circumferential Registration facility
- iii) Drying system compatible for UV curable varnish. The system shall be equipped with two dryers, one no. each for the drying/curing of the varnish on each side of the sheet.
- iv) The system shall be equipped with suitable monitoring, reporting and corrective mechanism in regards with coated varnish.

3.10 UV Curing unit (Optional):

3.10.1 Machine shall have a compact UV curing system enabling instant drying of UV based numbering inks.

3.11 Pile breaker / Jogger for making CWBN paper free from stickiness (Optional):

3.11.1 Suitable Pile breaker / Jogger for making printed (offset/intaglio) CWBN paper free from stickiness shall be supplied.

4. MAINTENANCE

- 4.1 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.
- 4.2 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.
- 4.3 International standards applicable for all mechanical, electrical and electronic items such as spare components, Lubrications, Sensors, PLC, Pneumatics and Hydraulics shall be provided by the successful bidder. Declaration to this effect to be given by the bidder along with the technical bid.

- 4.4 Side frames of the machines shall be provided with a transparent viewing area wherein the user will be in a position to see the moving parts while the machine is running.
- 4.5 Spare parts list shall be classified as First wiring spares, General Spares and rarely use spare parts for Electrical and mechanical spares.
- 4.6 Maintenance & service of the machine should be clearly mentioned as per the machine hour. The division of the maintenance list should be related to the time period (Daily, weekly, monthly, yearly etc.).
- 4.7 Spare parts list shall be mentioning the spare parts makers details, If the spare makers are international items then the spare catalogue clearly shall mention the Indian supplement and authorized dealer details.

5. ELECTRICAL AND ELECTRONICS CONTROL:

5.1 Electrical control cabinets: Machine operation shall be controlled electrically by the electric control cabinets which has lighting facility inside.

5.2 Timing control: The following timings shall be detected and controlled electrically by an encoder.

1. Numbering cylinder throw on/off
2. Form roller throw on/off
3. Actuation of the serious defect detector
4. Feeder on/off
5. Front lay suspension
6. Delivery pile switching
7. Sheet counting
8. Feeder and delivery pump on/off

5.3 Sequential programmed control for printing start-up:

The feeder and the delivery unit shall be equipped with the sequential programmed control for printing start-up. Sequential printing operation such as machine running, sheet feeding, cylinder throw on/off, is started/stopped automatically by operating a pushbutton only once.

5.4 Defect detectors:

The Defect detectors shall detect the following defects and the press shall take the preset actions on detection of defects such as late arrival of sheet, misalignment of sheet in front and sides, Double sheet (Mechanical & Electronic), Absence of sheet, etc., Failure safe mode shall be available for monitoring the functionality of critical sensors.

5.5 Printing sheet quantity counter:

Sheet quantity counter shall be provided in the operation panel of the delivery unit. The following counting operations shall be featured in a central display: -

1. Counting of sheets fed into the press by swing-arm grippers
2. Counting of sheets fed into first delivery pile
3. Counting of sheets fed into the second delivery pile.
4. Counting of test/reject sheets fed into the sampling pile.
5. Counting of "on-impression" passes of the impression cylinder.

5.6 UPS for signal lines:

It shall provide back up for hydraulic valve control signals which throw off the impression cylinder in case of power failure. (It shall back up in case of power failure till it completes storing the data.) Machine console should be fully backup by the UPS for data, log saving. Make of the UPS should be generalized as per the international standard and the service would be available in the Indian market

5.7 Fluorescent/LED lamps:

Fluorescent/LED lamps shall be used for the lighting inside the press. All indicator lamps shall be of LED type and should be standard off-the shelf products of leading Brands of LED lamps.

6. SAFETY:

The SELLER should ensure that all the machines and equipment supplied under contract are manufactured as per international safety norms and certificate to that effect is to be enclosed.

6.1 Safety Guards: Mechanisms on both the drive and operation sides of the press shall be fully covered and suitable lubrication at the register unit shall be employed to ensure safety, reduce wear, maintain accuracy, and improve durability of the machine. Safety covers and safety switches shall be provided to protect the press operators and maintenance engineers from accidents resulting in stopping of the machine and activation of safety locks whenever necessary.

6.2 Safety Monitors: Motors, safety covers and guards etc. shall be protected by safety monitors against possible overload or the press being operated in an unsafe condition, to ensure the maximum safety for operator and machine parts at all times. The safety monitors shall indicate the operational status of safety devices, defect detection, and press operation inclusive of the following.

1. Safety interlocks of the stop buttons
2. Actuation of the safety covers or safety bars
3. Overload of the motors
4. Hydraulic or lubrication error

7. ACCESSORIES REQUIRED PER MACHINE :

7.1 Accessories required with machine:

- 7.1 Tool Kit: 01 Set
- 7.2 Feeder pile board: 02 Nos.
- 7.3 Pallets: 50 Nos.
- 7.4 One set of Forks to support one pile for continuous feeding
- 7.5 Rubber Rollers for Ink transfer- 02 Nos. of each variety excluding one set coming with machine
- 7.6 Ink agitators – 2 Nos. excluding 2 Nos. fitted on the machine
- 7.7 Duct blades- 10 Nos. excluding 2 Nos. fitted on the machine
- 7.8 Ink Side seals- 4 pairs excluding 2 pairs fitted on the machine
- 7.9 Numbering Boxes – 240 Nos. (wheels should be suitable for numbering of all denominations)

- 7.10 Additional prefix figure wheels (0-9) for position “9” – 240 Nos.
- 7.11 50 Nos. suitable impression Blankets should be supplied with each machine.
- 7.12 25 Nos. Suitable Digital Nyloprint plate for varnish coating, as per suitable machine size

7.2 The firm should supply all the oils, lubricants, chemicals and all consumables (except banknote paper and inks) for running the machine for the smooth production of 120 working days (03 shifts per day) after completion of successful FAT.

7.3 The firm must provide all the required spares & consumables items during installation & commissioning & until the successful completion of FAT.

8. AUXILIARIES REQUIRED PER MACHINE:

- a) All auxiliaries required for operation shall be supplied along with the machine.
- b) Required Air compressors (1 running + 1 Stand by each) of suitable capacity with dryers, controls, piping etc. for operation of the printing machine. Each air compressor should have its standby of same capacity (i.e 100% stand by).
- c) If required, Vacuum Pumps (1 running + 1 Stand by each) of suitable capacity with controls, piping etc. for operation of the printing machine. Each vacuum pump should have its standby of same capacity (i.e 100% stand by).

9. DOCUMENTS REQUIREMENT:

9.1 The firm will have to submit following documents each in 06 sets in English language only.

- i. Operation manual of the machine (6 Sets of each manual) and two separates enlarge electrical drawing and error list set with firm binding for fault rectification.
- ii. Maintenance manual with drawings of system assembly/sub assembly with part list/ Bearing and oil seal position.
- iii. Electrical circuit diagram, Fault finding Charts and Spare Parts catalogue, pictorial form of error finding of all possible errors should be include as error catalogue with the machine.
- iv. Hydraulic and Pneumatic diagram.
- v. All PLC Programs & parameters in hard /soft copy on CD/DVD and in external portable Hard Disk.
- vi. Complete list of error messages and their suggested diagnostic and remedial guidance.
- vii. Full 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).
- viii. Last Backup file (Image copy of whole software of all running computer) should be handed over after completion of FAT on the external media.
- ix. One Service PC/Laptop/Test units for PLC programming, fault finding, loading, editing and correction should be provided along with each machine. The service PC/ Laptop shall contain DVD writer and USB port to read the Software form the DVD. Service PC/Laptop shall latest licensed Antivirus for protection. All cables/connectors/ports required to connect laptop to machine should be provided along with.
- x. Complete API documentation along with examples.

9.2 One Service PC/Laptop/Test units for PLC programming, fault finding, loading, editing and correction should be provided along with each machine.

10. FAT CONDITIONS- For Numbering Machine

FAT:- Upon completion of erection and commissioning work , machine testing (FAT) i.e. Final Acceptance Test will be conducted at the respective units for a period specified as given below to assess the performance of machine as per the technical specifications, at CNP, Nashik respectively. Broad parameters for FAT are as under:

Sr. No.	Description	Parameters
1	Total no. of Working Shifts	25
2	Number Shifts in a day	1
3	Duration of each shift	08 hours
4	Effective Production time (excluding Operator oriented stoppages, cleaning, make ready etc.	06 hours
5	Average speed of 90% of printing speed	9000 sheets per hour
6	Targeted production per shift (in sheets)	Good quality 54000 sheets (9000 x 6 Hrs.)
7	Print Quality Check: All good sheets at examination stage.	100% (Related to Numbering System)
8	Machine speed denomination.	During every shift production at the rated machine speed (≥ 10000 sheets per hour) for one hour shall be demonstrated.

FAT Period: FAT period will be continuous 25 shifts (01 shift per day) excluding holidays. If any stoppage occurs or performance values cannot be achieved in whole or in part during the performance guarantee tests.

- For the reasons on account of CNP, FAT could not be conducted the particular day, that day will not affect continuity of FAT. However same day will not be considered for FAT and FAT will continue next day from the previous FAT day.
- If for reasons for which the seller is responsible, seller shall repeat the test in whole from beginning (i.e day one) in order to demonstrate the performance values which are not reached.

Good quality in the FAT condition at Sr. No. 6 is defined as under:

- a) Numbering panels are precisely registered as per the defined position of the printed sheets.
- b) No variation in front lay and side lay during Numbering operation.
- c) The printed sheet should not have any printing defects like scum, picking, plucking, piling, ink filling, ink smudging, mottle, ghost image, color variations, set-off, ink streaks, etc.

- d) The printed sheet design should match with the approved sample of Reserve Bank of India/BRBNMPL/BNP Dewas/CNP Nashik etc. in terms of ink density, colour variation, print registration of different colours throughout the sheet, etc.
- e) During FAT, the functions of the system for monitoring production Data will also be verified as per the point no. 3.6 of Technical specification.

FAC: Upon satisfactory completion of FAT, respective SPMCIL- unit shall issue FAC (Final Acceptance certificate) for each machine.

Note:

- 1) FAT shall be carried out with any denomination of Indian banknotes. The above production assumes planned sheets are readily available for production use at the start of the shift. Any waiting time for the issue, return and counting of sheets to the machine is excluded from these figures. If there are any such delays, then allowance must be made by SPMCIL.
- 2) Machine oriented stoppages; consist of preproduction run time, replacement of consumables, intermittent cleaning, adjustment of machine feeder, end of shift machine check and cleaning.
- 3) All the results have to be agreed by signing in the format marked as “Inspection Result”.
- 4) The functional capacities of various software and hardware performance have to be demonstrated to the SPMCIL and to be proved that the same are working at optimum level.

Section VIII: Quality Control Requirements

CHECKLIST FOR PDI OF NUMBERING MACHINE

Inspection period:

Machine model & Serial no.:

Contract no. & Date:

Sr. No.	Technical specifications as per contract	Conformity YES/NO	Remarks if any.
1	Maximum printing speed of 10000 sheets per hour		
2	Numbering at top and bottom panel		
3	Maximum sheet size - 700 mm X 820 mm		
4	Existing Infrastructure/Utilities		
5	Automatic Wheel Position Adjustment For At Least Ten Motorized Wheels. (Exploding font) to be supplied.		
6	Automatic Mechanisms And Electronic Controls, For Providing High Productivity.		
7	Withstand Pressure		
9	Machine Counter		
10	Retrofitment facility of Drying System Compatible For UV Curable Varnish.		
11	Good Quality 54000 Sheets In 8 Hours Per Day Shift Operation.		
12	Report To Be Generated For Rejected Note/Wrong Numbered Sheets		
13	Delivery Of Rejected Note/Wrong Numbered Sheets In The Test/ Third Pile Or Pile 1 or pile2		
14	Retrofitting Additional Equipment for incorporation of new security features.		
15	GENERAL SPECIFICATIONS :		
a)	all types of bank note substrates		
b)	Maximum printing speed		
c)	Maximum Mechanical speed		
d)	crawl speed		
e)	maximum sheet size of 700 mm X 820 mm		
f)	minimum sheet size of 475 mm x 600 mm.		
g)	GSM ranging from 70 to 100.		
h)	maximum print area of 665 mm (Circumferential) X 800 mm (Lateral).		
i)	Gripper margin shall not exceed 25 mm		

j)	Noise Level should be less than 85 dBA		
k)	Numbering ink consumption		
l)	Numbering cylinder, Impression cylinders shall be protected to prevent fretting of the cylinder over the entire life of the press		
m)	All components shall resist corrosion, erosion, etching and pitting when contacted by printing inks, cleaning solution(s) normally encountered during numbering operations		
16	Feeder & Register Unit:		
i)	Non-stop stream feeder capable of running at production speed of 10,000 sheets per hour with a capacity to pile at least up to 10,000 sheets or more.		
ii)	Pre-piling device and auxiliary pile (preparatory pile/pre-piler/pre-loader).		
iii)	Elimination of static electricity		
iv)	pile side guide.		
v)	Sheet separation mechanism and blast nozzles to ensure trouble free feeding.		
vi)	Accommodating trouble free feeding of sticky, wavy sheets, marginally mis-aligned sheets		
vii)	Sheet Control systems with sensors for uninterrupted production with following arrangement. <ul style="list-style-type: none"> xii. Position monitoring system xiii. CWBN Paper Notch sensor (should be adjustable as per the job) xiv. Double sheet detection system for effective double sheet detection & control. xv. Sheet Side lay device xvi. Pre-front lay device xvii. Front lays xviii. Transfer control mechanisms xix. Colour sensor for differentiating trial paper and Banknote paper xx. Crash sheet control mechanisms to avoid overloads. xxi. Inverted sheet detector xxii. Full sheet detection system before numbering. 		
17	Printing and Inking Unit:		
a)	Two numbering cylinders with counter weights and single impression cylinder		
b)	The impression cylinder shall have suitable mechanism and easy accessibility for mounting of impression blankets and packing.		
c)	Inking system to permit numbering with not less than two		

	independent inking units each applying individual inks (colours).		
d)	Modular type leak-proof ink fountain, unobstructed ink metering mechanism, and ink application device.		
e)	Resistant to long term corrosive/abrasive action of inks and cleaning solution(s).		
f)	Critical components of machine shall be suitably covered/protected from the ink spillage.		
g)	Permit the use of both fountains selectively and when an inking fountain is not in use, it shall not be driven.		
h)	Permit fine and coarse metering of ink onto transfer rollers via individually adjustable keys.		
i)	Each key shall be individually controllable from full open to close. At full closure, no ink film shall be transferred.		
j)	Fountain cheeks shall not warp and shall be made out of replaceable leak tight, longwearing, non-scoring material.		
k)	Pneumatic driven ink agitators to distribution and maintain the homogeneity of the ink.		
l)	Have easy access for roller mounting, cleaning and inspection.		
m)	inker cleaning device		
n)	Inking unit shall consist of the following: <ol style="list-style-type: none"> 1. 2 ink fountains. 2. 2 duct rollers with suitable coating with a compatibility to thermo regulation unit. 3. Inking rollers for appropriate transfer of ink. 4. 2 ink agitators. 5. Automatic ink key control. 6. Duct roller and ink roller cleaning device for both inking ducts. 7. Ink duct blades for all ink ducts. 8. Waste Ink collecting trays for all ink ducts. 9. Side seals Left & Right (2 sets). 10. Conveniently positioned lifting devices for handling numbering cylinders. 11. Automatic nip pressure adjustment for form rollers and impression. 		
18	Numbering System:		
a)	Computerized numbering system with random numbering boxes along with accessories to enable random numbering on sheets up to 60 ups in each numbering station.		

b)	Number up to two panels in the same side of the banknote.		
c)	Capability to automatically (motorized) change at least 10 wheels in the numbering box.		
d)	The system shall generate the numbering layout for the first start up sheet for each job.		
e)	Detect wrong positions of prefix and suffix during setup and faulty switching at printing process and shall identify immediately to avoid wrong numbering.		
f)	Prevent any wrong numbering mistakes.		
g)	Communicate numbering errors with monitoring system for records.		
h)	Pre-inking to be done automatically (initial and intermittent).		
i)	The numbering system shall have offline numbering box testing device.		
19	Delivery Unit:		
a)	Minimum three pile delivery systems with two piles for regular delivery pile and one pile for test sheet/reject delivery.		
b)	Delivery piles -5000 sheets in each pile.		
c)	The pile delivery system shall permit continuous piling by changing the pile from one to the other automatically according to the number of sheets required on each pile, which has been preset on the counter. Defective sheets shall be delivered onto the sampling/reject pile when a signal of rejection is received from inspection system or the sampling push button is pressed by the operator.		
d)	Shall have air ducts, suction wheels, static eliminators and sheet joggers to ensure proper delivery and alignment of sheets.		
e)	Shall have provision of on-line drawing of test sheet for quality checks.		
f)	Along with machine firm will supply 50 nos. of pallets.		
20	Online Numbering quality and Verification System:		
i)	Checking number print quality at a machine speed of 10,000 printed sheets per hour. Online Inspection shall be synchronized with the running speed of the machine.		
ii)	Maximum sheet size of 700 x 820 mm and maximum print size of 665 X 800 mm with 15 / 25 mm gripper margin.		
iii)	Suitable for up to 60 printing ups notes on each printed sheet.		

iv)	To check print quality of serial numbers consisting of 9/10 alphanumeric characters with a panel length of maximum up to 42 mm.		
v)	To Check number print quality of banknotes in two panel printing on each banknote.		
vi)	System shall ensure that the background printing (with or without inset letter) over which serial numbering is done shall not have any impact on the quality of inspection of serial numbers.		
vii)	The system shall have a resolution of at least 300 DPI/ 0.1 mm. The alphanumeric serial number inspection camera to be used shall be of latest version of colour camera and be capable of working in RGB mode.		
viii)	To stop the printing machine with user defined conditions.		
ix)	Protection against power failure and voltage fluctuations. In case of power failure the power backup required by the system should be commensurate with the adequate protection of data generated.		
x)	An alarm to alert the operator when a sheet is classified defective without machine stoppage.		
xi)	Check number print quality of serial numbers during printing.		
xii)	The system shall check for tear or missing paper on serial number printed regions to the extent it affects reading of the number.		
xiii)	Check registration of the serial numbers w.r.t reference mark. The identification mark shall be the inset letter present behind the serial number or the Intaglio print present near the serial number.		
xiv)	Check registration of the serial numbers w.r.t identification mark in vertical and horizontal direction.		
xv)	Check for smudging and smearing of the serial numbers.		
xvi)	Check serial number for light ink, insufficient printing.		
xvii)	Check mismatch of serial numbers in the same bank note. The system shall check for mismatch for both the prefix and the serial numbers and, shall stop the machine when a mismatch is found and alert the operator in such a condition.		
xviii)	Check numbering sequence i.e. that the numbering on the		

	watermark sheets is happening in the serial (descending or Ascending order) according to Universal or CRN Numbering system; if not the same shall be alerted to the operator and the system shall stop the machine.		
xix)	Serial number inspection of printed sheets of different sizes and different ups irrespective of the dimension of the sheet.		
xx)	Unless already detected by any other device fitted to the numbering machine: i. The system shall check if the sheet has been fed with the back face of the sheet in the top orientation and shall classify such sheet as defective. ii. The system shall detect and reject mis-oriented sheets with serial numbers printed out of tolerable registration limits. ii. The system shall detect folded sheets, corner folds and also detect and reject if the printed region falls in the folded corner.”		
xxi)	The system shall detect mis-alignment in numbering and shall stop the printing machine when the misalignment is observed.		
xxii)	Any type of numbering pattern i.e., uniform sized digits in all number positions or Ascending or Descending numbering (exploding numbering pattern) of varying dimensions in different digit positions, horizontal & vertical numbering etc. The system shall be compatible for inspecting star numbered sheets.		
xxiii)	The system shall compare the numbering Run chart details with the actual numbering of watermark sheet and stop the machine if sheet is getting printed with the wrong run chart or if a wrong run chart is entered by the operator in the Inspection system. The Run chart check should be robust and must check both the prefix part and the serial number part (Real time number verification).		
xxiv)	Trouble shooting guide for hardware and software with possible remedies for both operatives and service personnel.		
xxv)	Count only watermark sheets and not the blue sheets in the production counter.		
xxvi)	Sheet report and note report providing the serial numbers of defective notes.		
xxvii)	Manual review facility for the numbers printed on sheets.		
xxviii)	Adjusting tolerance limits of different parameters of serial number printing.		
xxix)	Shift report providing the number of sheets inspected, numbers of sheets classified as defects and number of blue sheets inspected by the system.		

xxx)	The system shall be easy to maintain. The changeover of the system during change of denomination shall take very minimal time.		
xxxi)	The system shall be easy to operate without affecting production with a facility to run the machine in normal mode with inspection system shut off.		
xxxii)	The system shall stop the machine when the particular run is complete and an error popup would appear if the machine prints sheets exceeding the run limit.		
xxxiii)	Different run schemes should be provided and each run scheme shall be possible to be saved in a different profile. It should also be possible to create new Run schemes for different ups easily without involving much system downtime.		
xxxiv)	The system shall have minimal mechanical changeover task.		
xxxv)	The system shall contain a watch dog which would stop the machine if there is an error with the system Software/Hardware and shall have the data logging facility for at least 15 days.		
xxxvi)	The system shall have common console desk containing monitors to indicate the status of inspection and interfacing with existing system of Numbering machine.		
xxxvii)	The system User Interface (UI) shall be operator friendly easy to control both machine and the inspection system.		
xxxviii)	The system UI shall display and store the details of sheets inspected, sheets accepted and sheets rejected due to quality flaws and also serial numbers of rejected notes with respect to the working shift.		
xl)	The system UI shall print the details of sheets inspected, sheets accepted, sheets rejected and serial numbers of rejected notes when required by the user with respect to the working shift. It should be possible to print reports for each parcel or each pile.		
xli)	The system UI shall display detailed statistics of rejected notes with their serial number and reason for rejection for each working shift.		
xl ii)	The system UI shall display failure alarms.		
xl iii)	The system UI shall have facility to save different Runs under different profiles which can be renamed as required.		
xl iv)	Title of the current running denomination/set of prefixes and no. of sheets to complete run needs to be displayed.		
xl v)	Faults encountered leading to stoppage of the machine shall be displayed with fault description and location, and for each fault code corrective action shall be displayed by the system.		
xl v)	The history of errors and activity encountered by the system		

	shall be logged.		
xlvi)	The system to have provision to transfer the inspection details along with the defective note positions in offline mode like CDs, USB ports etc.		
xlvii)	Service support should be provided for next 10 years by OEM.		
xlviii)	Latest version of color camera shall be used.		
xlx	System shall be latest version of PC based. Commonly available PC and peripherals are to be used.		
21	System for monitoring Production data:		
a)	Central data collection service.		
b)	Easy accessibility to data.		
	Source Code Required For MIS Development		
	Compatible For Interfacing With Track- & Trace Facilities		
c)	<u>Hardware:</u>		
i)	Main computer unit with LCD / LED monitor		
ii)	Printer (LaserJet printer without scanning facility)		
iii)	Extended communication PCB / COMPUTER (for communication with PLC Interfacing)		
iv)	Public and private TCP/IP based data communication infrastructure.		
d)	<u>Software:</u>		
i)	Security protection for start-up.		
ii)	Monitoring the machine running state.		
22	Production management system:		
	Following details are controlled and displayed on the monitor screen.		
a)	Printing time of production sheets		
b)	Printing time of test sheets		
c)	Idle running time		
d)	Stoppage time		
e)	Sheet counting records		
23	MAINTENANCE:		
a)	Provision of a transparent viewing area at effective & appropriate places		
24	ELECTRIC AND ELECTRONIC CONTROL:		
a)	Electric control cabinets		
b)	Timing control		

c)	Defect detectors		
d)	Sequential programmed control for printing start-up		
d)	Printing sheet quantity counter:		
e)	UPS for signal lines:		
	Fluorescent/LED lamps:		
25	SAFETY		
a)	Safety Guards		
b)	Safety Monitors		
26	Accessories as per Technical specifications of contract/Agreement		
27	Auxiliaries as per Technical specifications of contract/Agreement		

FINAL ACCEPTANCE TEST AND FINAL ACCEPTANCE CERTIFICATE:

Upon completion of erection and commissioning work, machine testing (FAT) will be conducted for a period specified in the specification (on single shift of 8 hours basis) to assess the performance of machine as per the technical specification section VII. After successful completion of FAT a Final Acceptance Certificate will be issued.

Important Note:

Successful bidder shall demonstrate and achieve the performance guarantee values with regard to output and quality of the intermediate and finished products as shown in the FAT condition. The performance of the system as a whole on an integrated basis shall be demonstrated in a test run. Successful bidder shall supervise and direct the operation during the performance test, and shall take full responsibility in this regard.

During the performance test SPMCIL shall provide necessary operating and maintenance personnel. Successful bidder shall provide and install all measuring instruments required for testing the guaranteed performance, which are not included among the permanent measuring instruments of the units. Subject to the provisions in the contract, if during the test period an interruption or reduced performances should occur due to any reason solely attributable to SPMCIL, the test periods will be extended accordingly at the discretion of SPMCIL. Such time of interruptions for reduced performance and the production achieved during this period shall be discarded in evaluating the test.

If for reasons for which the bidder is responsible, the performance values cannot be achieved in whole or in part during the performance guarantee tests, successful bidder shall repeat the test in whole in order to demonstrate the performance values which are not reached. Before repeating the tests, bidder shall take all measures as may be needed in order that the performance values can be achieved at their cost. If even with two repetitive tests the

performance values have not reached for reasons within successful bidder's responsibility, successful bidder shall undertake at its own cost such modifications or replacements as considered necessary to obtain the performance guarantee values and the responsibility to demonstrate the successful performance guarantee values shall always rests with the successful bidder till so established.

If even after four repetitive attempts of rectification one or several of the essential performance values cannot be achieved, in the opinion of SPMCIL, then this will be treated as a breach of agreement by successful bidder and SPMCIL will be at liberty to decide the future course of action as SPMCIL deemed fit.

SECTION IX: ELIGIBILITY CRITERIA

FOR PRE-QUALIFICATION BID

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 *"Numbering machine for Banknote printing at speed of 10000 Sheets per hour."* 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.

2. Capability-Equipment & manufacturing Facilities: - The bidder must have an annual capacity to manufacture and supply at least two numbers of *"Numbering machine for Banknote printing at speed of 10000 Sheets per hour."*

3. Financial standing:

- a. The average annual financial turnover of the bidder firm (manufacturer or principal of authorized dealer) during the last three years, ending on 'The Relevant Date', should be at INR 600000000 or Euro 7224570 or JPY 844594600 or USD 7839040 [or equivalent currency of country of origin of goods] 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.
- b. Bidder Firm should not have suffered any financial loss for more than one year during the last three years, ending on the 'The Relevant Date'.
- c. The net worth of the firm should
 - i. Not be negative on 'The Relevant Date' and
 - ii. Not have eroded by more than 30% in the last three years, ending on 'The Relevant Date'.

Note for relevant Date:-

Relevant date is 31/12/2020 in case the financial year is maintained calendar year wise or 31/03/2021 in case financial year maintained ending 31st March of a year.

A. Applicability in Special Cases

1. **Applicability to 'Make in India' :Bidders** (manufacturer or principal of authorized representative) 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, and who while meeting all other criteria above, except for any or more of sub-criteria in Experience and Past Performance above, would also be considered to be qualified provided:
 - i.) Their foreign manufacturer who holds intellectual property rights, meets all the criteria above without exemption, and
 - ii.) The Bidder submits appropriate documentary proof for technology collaboration agreement/ transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phased increase in local content.
 - iii.) The bidder (manufacturer or principal of authorized representative) furnishes along with the bid a legally enforceable undertaking jointly executed by himself and such foreign Manufacturer for satisfactory manufacture, Supply (and erection, commissioning if applicable) and performance of 'The Product' offered including all warranty obligations as per the general and special conditions of contract.
2. **Authorized Representatives:** Bids of bidders quoting as authorized representative of a principal manufacturer would also be considered to be qualified, provided:
 - i.) Their principal manufacturer meets all the criteria above without exemption, and
 - ii.) The principal manufacturer furnishes a legally enforceable tender-specific authorization in the prescribed form assuring full guarantee and warranty obligations as per the general and special conditions of contract; and
 - iii.) The bidder himself should have been associated, as authorized representative of the same or other Principal Manufacturer for same set of services as in present bid (supply, installation, satisfactorily commissioning, after sales service as the case may be) for same or similar 'Product' for past three years ending on 'The Relevant Date'.
3. **For Existing successful Past Suppliers:** In case the bidder (manufacturer or principal of authorized representative) who is a successful past supplier of 'The Product' in at least one of the recent past three procurements, who do not meet any or more of requirements above, would also be considered to be qualified in view of their proven credentials, for the maximum quantity supplied by him in such recent past.
4. **Joint Ventures and Holding Companies:** Credentials of the partners of Joint ventures cannot (repeat cannot) be clubbed for the purpose of compliance of PQC in supply of Goods/Equipment, and each partner must comply with all the PQC criteria independently. However, for the purpose of qualifying the Financial Standing Criteria, the Financial Standing credentials of a Holding Company can be clubbed with only one of the fully owned subsidiary bidding company, with appropriate legal documents proving such ownership.

5. **Start-up Enterprises:** Requirements of prior experience and turnover would be relaxed for Start-up enterprises as recognized by Department for Promotion of Industry and Internal Trade (DPIIT), subject to their meeting the quality and technical specifications. Such Start-ups may be either MSE or otherwise.
6. **Notes for Bidders:-**
 - i. Along with all the necessary documents/certificates required as per the tender conditions, the bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity (both technical and financial), for manufacture and supply of the required goods/ equipment, within the specified time of completion, after meeting all their current commitments.
 - ii. Supporting documents submitted by the bidder must be certified as follows:
 - iii. All copy of supply/ work order; respective completion certificate and contact details of clients; *documents issued by the relevant Industries Department*; National Small Industries Corporation (*NSIC*); *manufacturing licence, annual report, etc.*, in support of experience, past performance and capacity/ capability should be authenticated by the by the person authorised to sign the tender on behalf of the bidder.
 - iv. All financial standing data should be certified by certified accountants, for example, Chartered Accountants/ Cost Accountants in India and equivalent in relevant countries; and
 - v. Indian bidder or Indian counterparts of foreign bidders should furnish their Permanent Account Number.

**SECTION X: TENDER FORM
ACCEPTANCE OF TERMS & CONDITIONS**

To

Date.....

The Chief General Manager,
Currency Note Press,
(A unit of Security Printing and Minting Corporation of India Limited)
Nashik, Maharashtra – INDIA

Ref: Your Tender document No.dated

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 of ---xxxx-- **(To be mentioned in the Price Bid only & not to be mentioned in PQB & Techno Commercial Bid)** (total tender amount in figures and words), as 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 clause 19, 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 further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

1. MSMEs Status:

Having read and understood the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 (as amended and revised till date), and solemnly declare the following:

- (a) Company /Partnership Firm /Proprietary Concern / Society/Trust / NGO/Others (Please Specify):.....
- (b) Micro/ Small / Medium Enterprise/ SSI/ Govt. Deptt. / PSU/ Others:....
- (c) Name of MSME Registering Body (NSIC/ DIC/ KVIC/KVIB etc.):.....
- (d) MSME Registration no. (with copy of registration):.....
- (e) Udyog Aadhaar Memorandum no.....
- (f) Whether Proprietor/ Partner belongs to SC/ ST or Women category.

(Please specify names and percentage of shares held by SC/ST Partners):.....

2. 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

3. 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

4. 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.

5. 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
TABLE A**

(Foreign Offers)

To,
The Chief General Manager
Currency Note Press, Nashik, Maharashtra, India 422 101

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:

Furnish complete list of equipment's and accessories which constitutes the NUMBERING MACHINE

Item Sr	Description	FOB price Per machine	Quantity offered	FOB Total	Port Destination	Insurance	Freight (Ocean)	CIF
<i>Column No.</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
1.	Supply of Numbering Machine for Banknote printing at speed of 10000 Sheets per hour.		03 Nos		JNPT Nhava Shava			
2.	Installation and Commissioning Charges		03 Nos		CNP Nashik			
3.	Training charges at Manufacturer's site		03 Nos					
4.	Training charges at Purchaser's site		03 Nos		CNP Nashik			
5.	Total (1+2+3+4)		03 Nos					

FOB price in words.....

CIF in words (for Nhava Sheva/ Mumbai port)

1. We confirm that there would not be any price escalation during the supply period.
2. We confirm that we will abide by all the tender terms and conditions and we do not have any counter conditions

Note:

1. The TDS (tax deduction at source) will be applicable for installation, commissioning, supervisory and training charges.
2. The list of spare parts shall be enclosed with the price bid separately.
3. Price bids with conditions/ counter conditions are liable to be rejected.
4. Items mentioned under Optional table will not be considered for L1 determination.
5. Purchaser at its discretion may or may not place orders for the optional items, however the cost of the optional items shall remain fixed/unchanged and valid for a period of 3 years from the date of issue of purchase order/Contract.
6. The requirement of 03 nos. of machines is tentative, purchasers reserves the right to place order for either 01 or 02 or 03 machines at the time of finalization of the tender.

(Name and Signature with date)

Office Seal/Stamp

TABLE B

(Optional Item)

To,
The Chief General Manager
Currency Note Press, Nashik, Maharashtra, India 422 101

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:

Furnish complete list of equipment's and accessories which constitutes the NUMBERING MACHINE

Item Sr	Description	FOB price Per machine	Quantity offered	FOB Total	Port Destination	Insurance	Freight (Ocean)	CIF
Column No.	A	B	C	D	E	F	G	H
1.	Supply of Varnish Coating Unit		03 Nos		Nhava Shava			
2.	Installation and Commissioning Charges		03 Nos		CNP Nashik			
3.	Supply of UV Curing Unit		03 Nos		Nhava Shava			
4	Installation and Commissioning Charges		03 Nos		CNP Nashik			
5	Pilebreaker/Jogger		03 Nos		Nhava Shava			
6	Installation and Commissioning Charges		03 Nos		CNP Nashik			

FOB price in words.....

CIF in words (for Nhava Sheva/ Mumbai port)

1. We confirm that there would not be any price escalation during the supply period.
2. We confirm that we will abide by all the tender terms and conditions and we do not have any counter conditions

Note:

1. The TDS (tax deduction at source) will be applicable for installation, commissioning, supervisory and training charges.
2. The list of spare parts shall be enclosed with the price bid separately.
3. Price bids with conditions/ counter conditions are liable to be rejected.
4. Items mentioned under Optional table will not be considered for L1 determination.
5. Purchaser at its discretion may or may not place orders for the optional items, however the cost of the optional items shall remain fixed/unchanged and valid for a period of 3 years from the date of issue of purchase order/Contract.

(Name and Signature with date)

Office Seal/Stamp

TABLE C

(Indian Bidders)

To,
The Chief General Manager
Currency Note Press, Nashik, Maharashtra, India 422 101

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:

Furnish complete list of equipment's and accessories which constitutes the NUMBERING MACHINE

Sr No	Description, Accounting unit and quantity offered	Price per machine	Quantity offered	GST@% and value	Total	Insurance	Freight	FOR Price (CNP)
<i>Col No</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
1.	Supply of Numbering Machine for Banknote printing at speed of 10000 Sheets per hour.		03 nos.					
2.	Installation and Commissioning & Training Charges							
3	Total (1+2)							

FOR price in words.....

1. We confirm that there would not be any price escalation during the supply period.
2. We confirm that we will abide by all the tender terms and conditions and we do not have any counter conditions

Note:

1. The TDS (tax deduction at source) will be applicable for installation, commissioning, supervisory and training charges.
2. The list of spare parts shall be enclosed with the price bid separately.
3. Price bids with conditions/ counter conditions are liable to be rejected.
4. Items mentioned under Optional table will not be considered for L1 determination.
5. Purchaser at its discretion may or may not place orders for the optional items, however the cost of the optional items shall remain fixed/unchanged and valid for a period of 3 years from the date of issue of purchase order/Contract.
6. The requirement of 03 nos. of machines is tentative, purchasers reserves the right to place order for either 01 or 02 or 03 machines at the time of finalization of the tender.

(Name and Signature with date)

Office Seal/Stamp

TABLE D

(Optional Items)

To,
 The Chief General Manager
 Currency Note Press, Nashik, Maharashtra, India 422 101

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:

Furnish complete list of equipment's and accessories which constitutes the NUMBERING MACHINE

Sr No	Description, Accounting unit and quantity offered	Price per machine	Quantity offered	GST@% and value	Total	Insurance	Freight	FOR Price (CNP)
<i>Col No</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
1.	Supply of Varnish Coating Unit		03 nos.					
2.	Installation and Commissioning Charges		03 nos.					
3.	Supply of UV Curing Unit		03 nos.					
4.	Installation and Commissioning Charges		03 nos.					
5.	Pilebreaker/Jogger		03 Nos					
6.	Installation and Commissioning Charges		03 Nos					

FOR price in words.....

1. We confirm that there would not be any price escalation during the supply period.
2. We confirm that we will abide by all the tender terms and conditions and we do not have any counter conditions

Note:

1. The TDS (tax deduction at source) will be applicable for installation, commissioning, supervisory and training charges.
2. The list of spare parts shall be enclosed with the price bid separately.
3. Price bids with conditions/ counter conditions are liable to be rejected.
4. Items mentioned under Optional table will not be considered for L1 determination.
5. Purchaser at its discretion may or may not place orders for the optional items, however the cost of the optional items shall remain fixed/unchanged and valid for a period of 3 years from the date of issue of purchase order/Contract.

(Name and Signature with date)

Office Seal/Stamp

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):
.....

- o 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 XIII: Bank Guarantee Form for EMD
(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)**

Ref

Date

Bank Guarantee No

To,
(Insert Name & Address of the Purchaser)

Dear Sir,

Whereas (Hereinafter called the "Tenderer") has submitted its bid numbered dated for the supply of(Hereinafter called the "tender") against’s **(insert name of Purchaser)** (hereinafter called as the 'Purchaser') tender enquiry No. opened on Know all persons by these presents that we of (hereinafter called the "Bank") having our registered office at..... are bound unto the Purchaser, in the sumof for which payment will and truly be made forthwith, on demand by the Purchaser, without demure to the said Purchaser, the Bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said Bank this..... day of20...

The conditions of this obligation are —

- (1) If the Tenderer withdraws or amends, impairs, or derogates from the tender, in any respect within the period of validity of this tender.
- (2) If the Tenderer or anyone employed by it or acting on its behalf (whether with or without the knowledge of the Tenderer) breaches any of the provisions of the pre-bid/ Pre-contract Integrity Clause.
- (3) If the Tenderer having been notified of the acceptance of his tender by Purchaser during the period of its validity:-
 - a) Fails or refuses to furnish the performance security for the due performance of the contract.
 - b) Fails or refuses to accept/ execute the contract.

We undertake to pay Purchaser up to the above amount, upon receipt of its first written demand, without Purchaser having to substantiate its demand, provided that in its demand Purchaser will note that the amount claimed by it, is due to it owing to the occurrence of one or more or all the above conditions, specifying the occurred condition(s). We agree that the decision of the Purchaser, whether above conditions have occurred, shall be final and binding on us.

This guarantee will remain in force for a period of **(Insert the period of validity plus 45 days, in words and figures)** days after the date of **(Insert date of tender opening)** and any demand in respect thereof should reach the Bank not later than the above date.

Date

Place

Witnesses

(Bank's Common Seal)

Signature
(Printed Name)
(Designation)



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 authorise 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 Nodated covering supply of..... (hereinafter called the 'contract') entered into between the ***(insert name of Purchaser)*** (herein after called as the Purchaser) and M/s.....,..... (here in 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, forthwith on demand and without demur to the Purchaser.

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 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..... dated..... and 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' Authorisation 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 despatch 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 a
Pre-bid Conference/ Bid Opening
(Refer to clause 24.2 of GIT)**

The Chief 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 despatch.....
 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.	
<p>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.</p>		

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

Section XX: Integrity Pact

(Ref Para 44.3 of GIT)

(To be signed on Plain Paper)

This Agreement (hereinafter called the Integrity Pact) is made on _____ day of the month of _____ 202__ at _____, India

BETWEEN

SPMCIL, a Miniratna Category I, Public Sector Enterprise of the Ministry of Finance, Government of India, (hereinafter called the “The Principal”, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part

AND

M/s. _____ (hereinafter called the “The Bidder/Contractor” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

PREAMBLE

‘The Principal’ intends to award, under laid down organizational procedures, contract/s for _____, ‘The Principal’ values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder(s) and / or Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the ‘The Principal’

1. ‘The Principal’ commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - a. No employee of the Principal, personally or through family members, will in connection with the tender for , or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential /additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - c. The Principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 - Commitments of the 'Bidder / Contractor'

1. The 'Bidder/ Contractor' commit themselves to take all measures necessary to prevent corruption. The 'Bidder/ Contractor' commit themselves to observe the following principles during participation in the tender process and during the contract execution.
 - a. The 'Bidder/ Contractor' will not, directly or through any other person or firm, offer, promise, or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - b. The 'Bidder/ Contractor' will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.
 - c. The 'Bidder/ Contractor' will not commit any offence under the relevant IPC/PC Act; further the 'Bidder/ Contractor' will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals, and business details, including information contained or transmitted electronically.
 - d. The 'Bidder/ Contractor' of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the Bidder/Contractors of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder/Contractor. Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is placed at Annex to this agreement.
 - e. The 'Bidder/ Contractor' will, when presenting their bid, disclose any and all payments made, is committed to, or intends to make to agents, brokers, or any other intermediaries in connection with the award of the contract.
 - f. Bidder /Contractor who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.
2. The 'Bidder/ Contractor' will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the 'Bidder/Contractor', before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the 'Bidder/Contractor' from the tender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings".

Section 4 - Compensation for Damages

- 1) If the Principal has disqualified the 'Bidder/ Contractor' from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from 'Bidder/ Contractor' the damages equivalent to Earnest Money Deposit/ Bid Security.

- 2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 - Previous transgression

- 1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

Section 6 - Equal treatment of all Bidders / Contractors / Subcontractors

- 1) In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor.
- 2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidder(s) / Contractor(s) /Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 - Independent External Monitor

- 1) The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 2) The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all Contract documents, whenever required. It will be obligatory for him / her to treat the information and documents of the Bidders/Contractors as confidential. He/ she reports to the Chairman and Managing Director of SPMCIL.
- 3) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
- 4) The Monitor is under contractual obligation to treat the information and documents of the Bidder/ Contractor(s) / Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non- Disclosure of Confidential Information' and of 'Absence of Conflict of

- Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Chairman and Managing Director of SPMCIL and recuse himself / herself from that case.
- 5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
 - 6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit nonbinding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action, or tolerate action.
 - 7) The Monitor will submit a written report to the Chairman and Managing Director of SPMCIL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
 - 8) If the Monitor has reported to the Chairman and Managing Director of SPMCIL, a substantiated suspicion of an offence under relevant IPC/ PC Act, and the Chairman and Managing Director of SPMCIL has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
 - 9) The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by Chairman and Managing Director of SPMCIL.

Section 10 - Other provisions

- 1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e., New Delhi.
- 2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) Issues like Warranty / Guarantee etc. shall be outside the purview of IEMs.
- 6) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

For and On behalf of the Principal <i>(Name of the Officer and Designation)</i> <i>(Office Seal)</i>	For and On behalf of Bidder/Contractor <i>(Name of the Officer and Designation)</i> <i>(Office Seal)</i>
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Place:

Date:

Witness 1:

(Name & Address)

Witness 2:

(Name & Address)

Annex to Integrity Pact

Guidelines for Indian Agents of Foreign Suppliers

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with SPMCIL shall apply for registration in the registration form with appropriate unit.
 - 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement. It should cover - the precise relationship, services to be rendered, mutual interests in business - generally and/or specifically for the tender. Any commission/remuneration/ salary/ retainer ship, which the agent or associate receives in India or abroad from the OEM, whether should be brought on record in the Agreement and be made explicit.
 - 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e., Principal) before finalizing the order.
- 2 Disclosure of particulars of agents/ representatives in India, if any.
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
 - 2.1.1 The 'Bidder/ Contractor' of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/remuneration, if any, payable to his agents/ representatives in India, may be paid by SPMCIL in Indian Rupees only.
 - 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:-
 - 2.2.1 The 'Bidder/ Contractor' of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e., whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
 - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
 - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by SPMCIL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.

- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraphs above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by SPMCIL. Besides this there would be a penalty of banning business dealings with SPMCIL or damage or payment of a named sum.