

**Standard Bidding Document (SBD)
(Procurement of Goods and Services)**

BANK NOTE PRESS

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

Wholly owned by Government of India

DEWAS – 455001 (Madhya Pradesh)

Tel No 00 91 7272 268253/268468

Fax No 00 91 7272 255111

Email: bnpdewas@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 BANK NOTE FINISHING MACHINES FOR BNP Dewas and CNP NASHIK.

(Tender Sl. No.): 02/BNP/P/Banknote Fin.M/c./2021-22/GT

(Date): 31-03-2022

Tender Documents is sold to:

M/s _____
Address _____

Details of Contact person in SPMCIL regarding this tender:

Name : Mr. Diganta Kumar Deka

Designation : Additional General Manager (Materials)

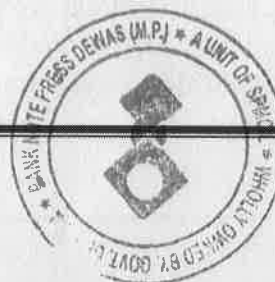
Address : BANK NOTE PRESS, DEWAS) 455001 INDIA.

Phone: 91 7272 268253/268468

Fax : 00 91 7272 255111

Email : bnpdewas@spmcil.com

Note: The word “SPMCIL” in this SBD hereinafter is referred to as “Bank Note Press, Dewas and Currency Note Press, Nashik, units of SPMCIL.”



SECTION I: NOTICE INVITING TENDER (NIT)

(Tender Sl. No.): 02/BNP/P/Banknote Fin.M/c./2021-22/GT

(Date): 31.03.2022

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 Bank Note finishing machine for sheet cutting & packing bank notes in bundle forms with minimum speed of 450 bundles per hour (each bundle consisting of 1000 banknotes).	03 Nos. (01 no. for BNP Dewas & 02 nos. for CNP Nashik)	₹ 49,50,000/ € 59,700/ ¥ 69,68,000/ \$ 64700 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 31.03.2022 to 19.05.2022 during office hours.
Date & time of Pre-bid Conference	22.04.2022 at 10:30:00 Hrs.
Place of sale of tender documents	BANK NOTE PRESS, DEWAS (M.P.) INDIA 455001
Closing date and time for receipt of tenders	20.05.2022 up to 14:30:00
Place of receipt of tenders	BANK NOTE PRESS, DEWAS (M.P.) INDIA 455001
Date and Time of opening of tenders	20.05.2022 at 15:00:00
Place of opening of tenders	BANK NOTE PRESS, DEWAS (M.P.) INDIA 455001
Nominated Person/ Designation to Receive Bulky Tenders (Clause 21.21.1 of GIT)	Diganta Kumar Deka Additional 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 07272-268253 or 268468 and e-mail Bnpdewas@spmcil.com / bnppurchase@spmcil.com/diganta.deka@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 mentioned in Section VI – List of Requirements 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. 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

15. 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
Administration Block Gate,
Bank Note Press, Dewas (M.P.) 455 001 India




28.02.2012

(Diganta Kumar Deka)

Additional General Manager (Materials)

For and on behalf of Chief General Manager

Bank Note Press, Dewas

Telephone No. 07272-268468/268253

E-mail bmppurchase@spmcil.com;

diganta.deka@spmcil.com

devkaran.kaleshriya@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 BNP Dewas on 22.04.2022 at 10.30 AM (IST). All the queries should reach BNP at least two days ahead, i.e. by 20.04.2022
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 365 days from the date of opening of tender.
3	19	Tender Validity	The tenders shall remain valid for acceptance for a period of 180 days from the date of opening of tender. 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 -----. The sealed envelopes shall again be put in



			<p>another sealed cover and should be super scribed "TENDER DOCUMENT FOR Design, Manufacturing, Testing, Supply, Installation, Commissioning, Training and Performance Testing of three numbers Bank Note Finishing Machine DUE ON 20.05.2022 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 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:</p> <p>In case of Indigenous offer, the prices quoted shall be compared on a total price basis (FOR, BNP Dewas/CNP Nashik), including all taxes, duties, packing and forwarding charges, freight,</p>



			<p>insurance, 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 CIF</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	<p><u>Supplement with the following:</u></p> <p>The purchaser also reserves its right to summarily reject offers received from any bidder, on National Security consideration.</p>
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, 52.3,	Tenders involving purchaser's and pre-	Not applicable

	52.5	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: (a) 80% payment of cost of material shall be made against actual receipt of Machine in acceptable condition with bill in triplicate at BNP Dewas/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 by BNP Dewas/CNP Nashik.</p> <p>2. Foreign supplier: 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"> Complete set of clean Bill of Lading/Airway bill must show that the complete goods have been actually shipped on board. Signed invoices in sets of quadruplicate stipulating specification reference for item indicating cost and quantity. Certificate of Country of Origin, issued by Chamber of Commerce. Copies of packing list in triplicate stipulating individual items, quantity, weight and dimension details of each packing case. Inspection Certificate. If inspection certificate has been waived, then Quality Test Certificate. Two sets of nonnegotiable dispatch documents, to be sent by courier services to the PURCHASER immediately after dispatch of consignment. Catalogue, technical write up/literature for customs clearance purpose. Certificate of No Agency Commission payable to any Indian agent involved in this transaction. 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 BNP Dewas/CNP, Nashik.</p> <p>(c) Bank charges:</p> <ol style="list-style-type: none"> 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. 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.
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			iii. The negotiating bank of the SELLER should give 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 (i.e. total value of machine) for each week of delay or part thereof until actual delivery and 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 Bank Note finishing machine for sheet cutting & packing bank notes in bundle forms with minimum speed of 450 bundles per hour (each bundle consisting of 1000 banknotes).	03 Nos. (01 no. for BNP Dewas & 02 nos. for CNP Nashik)	₹ 49,50,000/ € 59,700/ ¥ 69,68,000/ \$ 64700 or equivalent currency of country of origin of goods

1. EMD Validity: The EMD shall be valid for a period of 365 days from the date of opening of the tender. Any short validity, the tender shall be treated as unresponsive.
2. Required Delivery Period:
 - a. The machines must be ready for Pre-dispatch inspection as per the following schedule:-

For Indigenous Bidders:- From the date of signing of contract.	For Foreign Bidders:- From the date of opening of LC.
1 st machine within 32 weeks (For CNP)	1st machine within 32 weeks (For CNP)
2 nd machine within 38 weeks (For CNP)	2 nd machine within 38 weeks (For CNP)
3 rd machine within 44 weeks (For BNP)	3 rd machine within 44 weeks (For BNP)

- b. The machines must be dispatched within 9 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 machine at stores of BNP Dewas/CNP Nashik. The entire machine should be installed, commissioned and tested within 16 weeks at BNP Dewas/CNP Nashik from the date of receipt of machines at their 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. The indigenous supplier shall deliver the stores on FOR BNP/CNP 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 Bank Note Press Dewas/Currency Note Press, Nashik, 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 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 Chief General Manager, Security Printing Minting Corporation of India Limited, Unit Bank Note Press, Dewas and Currency Note Press, Nashik Road 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 BNP Dewas/CNP, Nashik three authorized officials from each unit will carry out Pre-shipment inspection at the manufacturer's site for the machines of the respective schedules for five working days. The expenditures towards inspection shall be borne by the successful supplier, whereas the other expenses shall be borne by BNP Dewas/ CNP Nashik.

18. TRAINING:

The supplier shall initially provide 15 working days training regarding operation, maintenance and software applications to six personnel from BNP Dewas/CNP, Nashik at the manufacturer's site for the machines of the respective schedules. The expenditures towards training shall be borne by the successful supplier, whereas the other expenses shall be borne by BNP Dewas/CNP, Nashik. The supplier shall also provide 15 working days training regarding operation, maintenance and software applications to nominated employees from BNP Dewas & CNP, Nashik at their respective premises (BNP Dewas/CNP, Nashik).

19. FALL CLAUSE:

The price quoted for the design, supply, installation, testing and commissioning of respective schedule of Bank note printing and finishing 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 respective schedule of bank note printing and finishing 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 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 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.

SECTION VII: TECHNICAL SPECIFICATION

BANK NOTE FINISHING MACHINE

1. **Brief Description**
2. **Essential General Specifications**
3. **Modules**
 - 3.1 Sheet feeding and counting station
 - 3.2 Cutting station
 - 3.3 100 band station
 - 3.4 Rotation station
 - 3.5 Collating station
 - 3.6 1000 band station
 - 3.7 1000 notes counting station
 - 3.8 Shrink-wrap station
 - 3.9 Label applicator
 - 3.10 Delivery station
 - 3.11 Online inspection system (optional)
 - 3.12 Centralized Lubrication system
 - 3.13 System for monitoring Production data
4. **Maintenance**
5. **Electrical and Electronic Control**
6. **Safety**
7. **Accessories required per Machine**
8. **Auxiliary units**
9. **Documents requirement**



1. BRIEF DESCRIPTION:

Bank Note Press Dewas, A unit of Security Printing and Minting Corporation of India Ltd. (SPMCIL), wholly owned by Government of India intends to procure 03 Nos. of Bank Notes Finishing Machine for BNP Dewas/CNP Nashik as per the details given below:

- 1.1 The finishing machine shall be compact, rigid, and mechanically sound and shall have corrosion resistant constructions. It should operate at very low noise level. This is meant for continuous duty at maximum speed.
- 1.2 The machine shall have all inbuilt self-adjusting mechanism to take care of slight variations in the operating parameters, power supply, climatic conditions etc. to give consistent production maintaining quality.
- 1.3 The machine shall be of latest technology at the time of signing the contract and should be easily adaptable to future developments and should fully meet all the environmental, safety and other international regulations and standards.
- 1.4 It should be perfect and very accurate to cut and pack the dry offset and intaglio printed banknote sheets without any chance for cutting error, misalignment and should have necessary protections against the same.
- 1.5 The machine shall have superior design, construction and configuration for having easy operation, ease in maintenance and quick access to different parts. The machine should have features for noise abatement and provisions for centralized/decentralized electrical and electronic controls.
- 1.6 The Machine shall be capable of processing blocks/lots of 100 sheets into packets of 100 notes and subsequently bundles of 1000 notes with sequential serial numbers as per Computerized Random Numbering (CRN) system.
- 1.7 The machine shall ensure precise vertical cut regardless of substrate like 100% cotton furnish, Polymer, Hybrid, Durable Paper, Varnish Coated Paper etc. and even in the presence of wide security threads and/or Foil Patch etc.
- 1.8 The machine should be complete with all required mechanical, electrical, electronics, optical, hydraulics, photo electric, pneumatic, lubrication, temperature control devices etc. and equipped with systems for automatic smooth, continuous and un-interrupted functioning.
- 1.9 The machine should include all ancillary units as required to support its functioning.
- 1.10 Finishing machine shall be suitable to produce good quality at least 2778 Bundles (With 60/50 ups sheets) in an 8-hour shift operation.
- 1.11 Its working performance should be steady, smooth and consistent.
- 1.12 The machine should have suitable pile breaker/jogger for making CWBN paper free from stickiness.
- 1.13 The Machine should have variable speed.
- 1.14 The Machine shall be equipped with Industrial Internet Of Things Technology and Industry 4.0 requirements. It means- i) It shall have connected devices, sensors, actuators etc. that can sense, communicate & store information about themselves.

ii) It shall have TCP/IP protocol based public and private data communication infrastructure. This infrastructure will be used to fetch data from machine to other customer software i.e. SAP-ERP, Track & Trace Software etc.

iii) It shall provide APIs (application programming interface) to read data from Machine and its devices. Example and detailed document on API usage to be provided.

- 1.1 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 The machine should be able to process/finish a 'Lot' of 100 sheets into a shrink packed bundle of 1000 serially numbered notes with a provision of Lot Counting (two corners), Lot trimming, stripping, strip jogging, 100 note banding, 100 note (packet) cutting, packet collating, 1000 note banding, 1000 note counting, shrink wrap packing of 1000 notes bundle and Label Print application. Label size will be 70mm X 50 mm and pattern of scanning & printing will be furnished unit wise at the time of placing purchase order.
- 2.2 The machine shall perform all functions automatically right from the point where 100 sheets are manually fed into the machine up to auto shrink-wrap system and label printer cum applicator.
- 2.3 The required main parameters are:

Parameters	Minimum	Maximum	Unit
Output /hour	450	--	Bundles (1 bundle contains 1000 banknotes) With 60/50 UP Sheet
Paper size L x W	450 x 475	700 x 820	mm
No. of bank notes/sheets			
Cross Direction	4	6	Nos.
M/c Direction	5	10	Nos.
Size of bank notes			
Cross Direction	110	180	mm
M/C Direction	60	90	mm
Paper weight	70	100	GSM
Thickness of 100 note packet/Height of packet	10	15	mm
Thickness of 1000 note bundle/Height of bundle	100	150	mm
Cutting accuracy	-	±0.50	mm

- 2.4 The machine shall have the full programmable electronic control system for doing all the operations automatically to give the finished product in 1000 note bundle containing 10 packets of 100 notes each, each finished note being exactly cut at the required positions and size.
- 2.5 The machine shall have minimum 06 numbers of on-line counting machines. Out of this, 02 for 100 sheets counting at feeding station and at least 02 online counting machines for 1000 notes counting plus 02 online counting machine to count the diagonally opposite corners of 1000 bundles counted by earlier counting machines.
- 2.6 At least two additional off-line 1000 note counting machine (stand-alone mounted on table trolley) other than mentioned above should be provided along with the finishing machine.
- 2.7 It should have standard equipment like knives, safety devices, and transparent guards for observations etc.
- 2.8 The machine should be equipped with automatic/user friendly faster change over from one size format to another format.
- 2.9 The machine should be equipped with standalone paper jogger near feeding station.
- 2.10 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

The descriptions given are generic in nature and therefore the machine offered should be complete in all respects for ultimate intended performance. The above given requirements are the minimum; any better version/parameters are also acceptable.

- 2.11 The machine shall have provisions to trim all four sheet edges with the following characteristics:

Gripper edge	: 15 to 25 mm
Trailing edge	: 5 to 10 mm
Side edges	: 5 to 10 mm
- 2.12 The firm should provide the technical specification of all type of consumables like 100 & 1000 banding film, shrink wrap film, Labels, Thermal transfer film etc..to be used on machine within 120 days from the date of Purchase order/contract along with 10 no of sample piece of each variety to enable bulk procurement.

3. **MODULES:**

The machine should have mainly following modules.

- 3.1. Sheet feeding and counting station
- 3.2. Cutting station
- 3.3. 100 band station
- 3.4. Rotation station
- 3.5. Collating station
- 3.6. 1000 band station
- 3.7. 1000 notes counting station



- 3.8. Shrink wrap station
- 3.9. Label applicator
- 3.10. Delivery station
- 3.11. Online Inspection System (Optional)
- 3.12. Centralized Lubrication system
- 3.13. System for monitoring Production data

3.1 SHEET FEEDING AND COUNTING STATION:

The 100 sheets will be fed manually only in the machine, after counting at two corners and confirming the correct counting, sheets will be forwarded for further processing automatically till label application.

3.2 CUTTING STATIONS:

The cutting stations are required to cut printed sheets of various size/ ups /denominations in to required size of banknotes. It also includes cutting of side wastes. The movement of the sheets during the process should be accurate /precise to achieve the banknotes of accurate size.

- I. The cutting process shall be monitored with a suitable monitoring system to determine that the cut is performed burr and lint free.
- II. Tungsten Carbide Alloy Steel Knives should be provided for accurate cutting and minimal frequency of knife change.
- III. The system should ensure precise cut for High Grade security notes incorporating wide security thread, holograms, Foils etc.
- IV. The system should be able to precisely cut all substrates like 100% cotton furnish, Polymer, Hybrid, Durable Paper, Varnish coated Bank Note Paper etc.
- V. Trim waste removal shall be guided into easily accessible waste boxes positioned underneath the cutting units.
- VI. Waste boxes shall preferably be equipped with suitable level sensors.
- VII. The unit should be properly designed to handle bundle without miss position of the bundles and without fall of the bundles below the station.
- VIII. In case of machine stops and need to empty whole machine for the reset. The design of this unit should be simple to clear the machine bundles very quickly without any problem.

3.3 100 BANDING STATION:

- I. 100 banding station shall be suitable to band 100 notes packet with PE coated Paper & White Colour Plastic film (both) rolls having band width of 30 to 40 mm.
- II. The banding equipment shall be multiple modular components capable of being replaced quickly for maintenance and repair.
- III. The system should have banding fault detectors and provision for auto stop in case of fault detection.

- IV. In case, independent Band Feeders are provided for 100 Banding, Off-line Band Feeder Testing unit should also be supplied.
- V. In case, band-repetition facility is not available, table-top automatic banding unit should also be supplied.

3.4 ROTATION STATION:

The rotation station is required to rotate 100 banknotes packets by 180 degree to achieve compensation of intaglio printing and the thickness of security thread. There should be facility to switch off this function.

3.5 COLLATING STATION:

This system is required to make bundle of one thousand banknotes in a correct numbering sequence which are numbered on a numbering machine CRN numbering scheme.

- I. The collating unit should be compatible with CRN numbering system.
- II. The continuity of banknotes in terms of their serial numbers should be securely maintained during the process of collecting the packets into a bundle of 1000 notes.
- III. The unit should be able to collect 10 packets of banknotes to form a bundle in sequential manner as CRN numbering system.
- IV. The collating unit should be flexible enough to process different sheet layouts without major adjustments.
- V. Covers of transport mechanism like chains and belts should be made of transparent Plexi-glass, wherever possible.

3.6 1000 BANDING STATION:

- I. The machine shall be suitable for using 1000 bands of PE Coated Paper & Plastic film (both) rolls having band width of 40 to 60 mm. The system should have banding fault detectors and provision for auto stop in case of fault detection.
- II. In case, independent Band Feeders are provided for 1000 Banding, Off-line Band Feeder Testing unit should also be supplied.
- III. In case, band-repetition facility is not available, table-top automatic banding unit should also be supplied.

3.7 1000 NOTE COUNTING STATION:

This station should be equipped with Four on line counting machines which can count 1000 banknotes. 2 No. of Primary Counting Machine will count 1000 Note bundles and will forward to 2 No. of secondary Counting Machines which will count diagonally opposite corner of earlier counted corner by primary counting machines. Correct counted bundles by Primary and Secondary counting Machines will be forwarded for Shrink wrapping and wrong counted bundles to be ejected to rejection unit. Counting Station should also have the option to select and deselect counting machines as per requirement.

3.8 SHRINK WRAP STATION:

This unit is required to pack 1000 bank notes in a shrinkable LDPE/ polyolefin-film. The bundle of 1000 banknotes should be sealed and packed when passed through the heating tunnel. Single Film Cutting & Sealing bar is preferable.

3.9 LABEL APPLICATOR:

This unit is required to capture the data, print the data and affix the printed label on the shrink wrapped 1000 banknotes bundle. The image capturing device/camera should be suitably installed at a place to read the serial number of top bank note of the bundle and forward the data to the printer for printing the label accurately. Label should be fully customized as per requirement such as (Company logo, Bar code, Governor Name etc. whatever and whenever is required.). Label Applicator shall have APIs to read the data captured by it (such as Serial No., Print Date etc.) by other customer software i.e. SAP-ERP, Track & Trace Software etc.

3.10 DELIVERY STATION:

This shall be provided to collect the bundles suitably after affixing the labels

3.11 Online Inspection System (Optional)

This system shall verify that the cutting of sheets into packets was performed in accordance with the allowable cutting tolerance for note size.

- I. The system shall verify at least the top note of every packet.
- II. If the system determines that any cutting is outside the allowable tolerance, the machine shall reject the concerned packet and alert the operator.
- III. The operator shall be required to manually inspect the cutting.
- IV. The learning of a new banknote design shall be easy.
- V. The system shall allow on the fly adjustments of target values and tolerance settings.
- VI. The system shall include the following: -
 - a. Camera system capable of inspection of every packet processed in the machine
 - b. Illumination system
 - c. Image processing unit

Operation station with easy to operate user interface

- vii. Inspection system shall provide APIs to read the data captured by it (such as Serial No., Print Date etc.) by other customer software i.e. SAP-ERP, Track & Trace Software etc.

3.12 CENTRALISED LUBRICATION SYSTEM:

Machine shall be equipped with automatic centralized lubrication system for lubricating the critical and major components. In case lubrication system is not functioning as desired, it should have the facility for triggering alarm to alert the operatives. Recommended lubricants with brand names and manufacturers shall be provided along with generic specifications of such lubricants; also recommended Indian equivalents for such lubricants shall be provided wherever possible.

3.13 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 machine and accessible remotely as well over TCP/IP network.
3. System shall provide API and its documentation to read all the production data by other customer software i.e. SAP-ERP, Track & Trace Software etc. Complete documentation with example on how to fetch data from machine using the API. Complete List of API to be provided with detail documentation. For example – API to read machine speed, machine running state, machine counters (input and output), machine error log, machine events with time, machines label applicator data, log files etc.
4. Shall provide data logging facilities module-wise to enable the user to identify and analyze the reasons for stoppages and breakdowns.
5. Shall have the facility to alert the user with the various maintenance and operational schedules such as preventive maintenance schedule, knife change, etc.
6. Shall be suitable to monitor and collect the relevant processing information from the machine and display it in forms to assist the operators for more efficient production.
7. Overall software of system for monitoring production data should be simple, durable and light platform to view and check old log files without system hang/crash.

System shall comprise of the following hardware and software configuration:

3.13.1 HARDWARE:

- a. Main computer unit with standard LED monitor
- b. B&W Laser Simplex Printer (Sales and Service should be available in India)
- 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.

3.13.2 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, etc., with the date and time of occurrence.
3. In the event of a malfunction of the entire machine, the troubleshooting function shall provide its reason/solution on the display monitor. The troubleshooting function should cover whole machine including Shrink wrap unit.
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.



6. Software should detect the position of error occur and be able to indicate probable solution within the error message description.
7. All System PC should be installed with latest version of antivirus.
8. 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.
9. 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.
10. System source should be in open platform to adapt SCADA/Track trace platform to watch machine performance independently from remote place.

3.13.3 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

3.13.4 PRODUCTION MANAGEMENT SYSTEM:

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

1. Processing time
2. Idle running time
3. Stoppage time (can be categorized manually into the following items)
 - Waiting time for materials
 - Malfunctions of the machine
 - Waiting time for other reasons
 - Emergency stop
 - Stoppage by any accident
 - Temperature indicators for various units.
 - Module-wise Faults segregation and display whenever selected
4. 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.



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:

- 5.1.1 Machine operation shall be controlled electrically by the electric control cabinets which has lighting facility inside.
- 5.1.2 The machine shall have all required electrical and electronic controls.
- 5.1.3 The machine should be equipped with suitable/required latest version programmable logic control (PLC) units for controlling the entire functions of the machine.
- 5.1.4 All the automatic control functions should also have parallel manual functions, where ever possible

5.2 UPS FOR SIGNAL LINES:

It shall provide back up for sequential activities from feeding to delivery 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.

5.3 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 machine 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 machine is being operated in an unsafe condition, to ensure the maximum safety for operator and machine parts at all times. The block/strip/note transport mechanism at different units should be completely interlocked for overload protection and fault should be displayed on monitor. 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:

- 7.2 Tool Kit: 01 Set (Should contain all Standard and Special tools for the requirement of the machine.) and all measurement instruments like (Digital Multi-meter, clamp meter etc. should be supplied with the machine. All Safety tools also shall supply with the machine.
- 7.3 In case, independent Band Feeders are provided for 100 & 1000 Banding, Off-line Feeder Testing units should also be supplied.
- 7.4 In case, band-repetition facility is not available for 100 & 1000 banding, table-top automatic banding unit should also be supplied.
- 7.5 Three sets of cutting knives for each cutting station excluding knives installed on machine.
- 7.6 Three sets of cutting knives for 100 and 1000 banding station excluding knives installed on machine
- 7.7 The spares and consumable shall be used standard type and same or equivalent may be available in Indian market.
- 7.8 Any other standard accessory required for operation shall be supplied along with the machine.
- 7.2 It should be supplied with oils and lubricants, all chemicals and all consumables for minimum 120 working days (3 shifts per day) from the date of completion of the successful FAT. Consumables like 100 & 1000 banding film, shrink wrap film, Labels, Thermal transfer film, 4. No. of Label Printer heads, 10 No. of 100 Banding Heating Cartridges & 10 No. Thermal sensors, 3 No. 1000 Banding Heating Cartridges & 3 No. of Thermal Sensors, 3 sets of Shrink Wrap Cutting & Sealing bars with Heating Cartridges and Thermal Sensors, 3 Sets of under-packing for sealing bars, 3 No. of Shrink Tunnel Heaters, 2 sets of Thermal Sensors for shrink wrap tunnel, 01 No. Shrink tunnel blower, 4 sets of Cartridge for LaserJet Printer with the machine.

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

All auxiliaries required for operation shall be supplied along with the machine like

1. Automatic Pile Jogger
2. Compressor with integrated air drier-and receiver having moisture separator and auto drain valve.
3. Stand-alone Counting Unit-2 Nos.
4. 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).
5. If required, Vacuum Pumps (1 running + 1 Stand by each) of suitable capacity with controls, piping etc. for operation of the printing machine. Each air compressor 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 Finishing Machine (For 60/50 ups)

FAT (Final Acceptance Test) and FAC (Final Acceptance certificate)

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 BNP Dewas/CNP, Nashik. 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 30 minutes
5	Minimum Output per hour (for 60/50 ups) in bundles (each bundle consist of 1000 notes)	450 bundles/ hour
6	Minimum Targeted production per shift in bundle with 95 % efficiency (For 60/50 Ups)	Good quality 2778 bundles

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

- If during the test period, any interruption or reduced performances occurs due to any reason solely attributable to purchaser i.e. BNP Dewas/CNP Nashik, the test periods will be extended accordingly at the discretion of purchaser. 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, successful bidder shall repeat the test in whole from beginning (i.e. day one) in order to demonstrate the performance values which are not reached.

Note:

1. FAT shall be carried out with 60/50 ups of the 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 is any delay due to above reason(s), SPMCIL will permit accordingly.
2. Machine oriented stoppages consist of pre-production 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.

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

Section VIII: Quality Control Requirements

Upon completion of erection and commissioning work, machine testing (FAT) will be conducted at BNP Dewas/CNP Nashik for a period specified in the respective schedules (on single shift of 8 hours basis) to assess the performance of machine as per the technical specification section VII, at BNP Dewas/CNP, Nashik. Broad parameters are as under:

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.

Note: - Checklist for PDI is enclosed as Annexure-I



SECTION IX: ELIGIBILITY CRITERIA FOR PRE-QUALIFICATION BID

Bank Note finishing machine for sheet cutting & packing bank notes in bundle forms with minimum speed of 450 bundles per hour (each bundle consisting of 1000 banknotes).

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 "Bank Note Finishing machine for sheet cutting & packing bank notes in bundle forms with minimum speed of 450 bundles per hour (each bundle consisting of 1000 banknotes)' with the same or higher specification 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 shall also be provided.

2. Capability-Equipment & manufacturing Facilities: - The bidder must have an annual capacity to manufacture and supply at least two number of ""Bank Note Finishing machine for sheet cutting & packing bank notes in bundle forms with minimum speed of 450 bundles per hour (each bundle consisting of 1000 banknotes) with the same or higher specification"

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 396000000 or Euro 4768220 or JPY 557432440 or USD 5173770 [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.

4. Applicability in Special Cases

4.1 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:

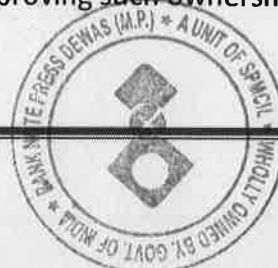
- i.) Their foreign manufacturer who holds intellectual property rights, meets all the criteria above without exemption, and
- ii.) The Bidder submits appropriate documentary proof for technology collaboration agreement/ transfer of technology agreement for indigenous manufacture of a product developed 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.

4.2 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'.

4.3 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. (This clause is not applicable for Security Items as notified by Government of India from time to time.)

4.4 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.



4.5 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.

5. 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 authorized 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,
Bank Note Press,
(A unit of Security Printing and Minting Corporation of India Limited)
Dewas, Madhya Pradesh – 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 up to -----, 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 up to 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:

- Company /Partnership Firm /Proprietary Concern / Society/Trust / NGO/Others (Please Specify):.....
- Micro/ Small / Medium Enterprise/ SSI/ Govt. Deptt. / PSU/ Others:....
- Name of MSME Registering Body (NSIC/ DIC/ KVIC/KVIB etc.):.....
- MSME Registration no. (with copy of registration):.....
- Udyog Aadhaar Memorandum no.....
- 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
Bank Note Press, Dewas (M.P.) India 455001



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 BANK NOTE FINISHING MACHINE

Item Sr	Description	FOB price Per machine	Quantity offered	FOB Total	Port Destination	Insurance	Freight (Ocean)	CIF
Column No.	1	2	3	4	5	6	7	8
1.	Supply of Bank Note finishing machine for sheet cutting & packing bank notes in bundle forms with minimum speed of 450 bundles per hour (each bundle consisting of 1000 banknotes).		03 nos. (01 no. for BNP & 02 nos. for CNP)		Nhava Shava			
2.	Installation and Commissioning Charges		03 nos.		BNP Dewas/ CNP Nashik			
3.	Training charges at Manufacturer's site		03 nos.					
4.	Training charges at Purchaser's site		03 nos.		BNP Dewas/ CNP Nashik			
5.	Total (1 + 2 + 3 + 4)		03 nos.					

Optional Items

Item Sr	Description	FOB price Per machine	Quantity offered	FOB Total	Port Destination	Insurance	Freight (Ocean)	CIF
1.	Supply of Online inspection system	2	3	4	5	6	7	8
2.	Installation, commissioning, Performance Testing & Training Charges for each of the Online inspection system		03 nos.		Nhava Shava BNP Dewas CNP Nashik			
3	Total (1+2)							

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

Section XI (Price Schedule) TABLE B

(Indian Bidders)

To,
The Chief General Manager
Bank Note Press, Dewas (M.P.) India 455001



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 BANK NOTE FINISHING MACHINE

Sr No	Description, Accounting unit and quantity	Price per machine	Quantity offered	GST@% and value	Total	Insurance	Freight	FOR Price (CNP)
Col No	1	2	3		4	6	7	8
1.	Supply of Bank Note finishing machine for sheet cutting & packing bank notes in bundle forms with minimum speed of 450 bundles per hour (each bundle consisting of 1000 banknotes).		03 nos. (01 no. for BNP Dewas and 02 nos. for CNP Nashik)					
2.	Installation and Commissioning & Training Charges							
3	Total (1+2)							

Optional Items

Sr No	Description, Accounting unit and quantity	Price per machine	Quantity offered	GST@% and value	Total	Insurance	Freight	FOR Price (CNP)
Col No	1	2	3		4	6	7	8
1.	Supply of Online inspection system		03 nos. (01 no. for BNP Dewas & 02 nos. for CNP Nashik)					
3.	Installation, commissioning, Performance Testing & Training Charges for each of the Online inspection system							
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.

(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):
.....

- 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 sum of 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 authorize Messrs..... (name and
address of the agent) to submit a tender, process the same further and enter into a contract with
you against your requirement as contained in the above referred tender enquiry documents for the
above goods manufactured by us.

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

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

Yours faithfully,

.....

.....

[Signature with date, name, and designation]

for and on behalf of Messrs.....

[Name & address of the manufacturers]

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



Section XV: Bank Guarantee Form for Performance Security

PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE GUARANTEE BOND (ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)

Ref

Date

Bank Guarantee No

To,

(Insert Name & Address of the Purchaser)

Dear Sir,

1. Against contract vide Notification for Award of the Tender 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' Authorization Form (if applicable for this tender);
 - (ix) SPMCIL's Notification of Award

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

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

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

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



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

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

(ii) Delivery schedule

(iii) Details of Performance Security

(iv) Quality Control

(a) Mode(s), stage(s), and place(s) of conducting inspections and tests.

(b) Designation and address of SPMCIL's inspecting officer

(v) Destination and dispatch instructions

(vi) Consignee, including port consignee, if any

(vii) Warranty clause

(viii) Payment terms

(ix) Paying authority

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

For and on behalf of.....

Received and accepted this contract

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

For and on behalf of

(Name and address of the supplier)

.....
(Seal of the supplier)

Date:

Place:



**Section XVII: Letter of Authority for attending 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 dispatch.....

Dated.....(enclosed)

Inspection Certificate No.....Dated.....(enclosed)

Place and Date

Received Rs.....

Rupees).....

We solemnly certify that:

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

Revenue stamp

Signature and of Stamp Supplier



Section XIX: NEFT Mandate

(Refer clause 22.2 of GCC)

From: M/s. Date:

To:

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

Sub: NEFT payments

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

NATIONAL ELECTRONIC FUNDS TRANSFER MANDATE FORM

1.	Name of City	
2.	Bank Code No.	
3.	Branch Code No.	
4.	Bank's Name	
5.	Branch Address	
6.	Branch Telephone / Fax No.	
7.	Supplier's Account No.	
8.	Type of Account	
9.	IFSC code for NEFT	
10.	IFSC code for RTGS	
11.	Supplier's name as per Account	
12.	MICR Code No.	

In Lieu of Bank Certificate to be obtained as under, please attach a bank cancelled cheque or photocopy of a cheque or front page of your bank passbook issued by your bank for verification of the above particulars.

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

Date

Signature of the Customer

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



Stamp and
Signature of authorized
Official of the bank

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'

6. '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.
- 1 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	For and On behalf of Bidder/Contractor
(Name of the Officer and Designation) (Office Seal)	(Name of the Officer and Designation) (Office Seal)

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.



**CHECKLIST FOR PDI
Machine: BANKNOTE FINISHING**


Sr. No.	Particular as per contract	YES/NO	Remarks
1	The finishing machine shall be compact, rigid, and mechanically sound and shall have corrosion resistant constructions. It should operate at very low noise level. This is meant for continuous duty at maximum speed.		
2	The machine shall have all inbuilt self-adjusting mechanism to take care of slight variations in the operating parameters, power supply, climatic conditions etc. to give consistent production maintaining quality.		
3	The machine shall be of latest technology at the time of signing the contract and should be easily adaptable to future developments and should fully meet all the environmental, safety and other international regulations and standards.		
4	It should be perfect and very accurate to cut and pack the dry offset and intaglio printed banknote sheets without any chance for cutting error, misalignment and should have necessary protections against the same.		
5	The machine shall have superior design, construction and configuration for having easy operation, ease in maintenance and quick access to different parts. The machine should have features for noise abatement and provisions for centralized/decentralized electrical and electronic controls.		
6	The Machine shall be capable of processing blocks/lots of 100 sheets into packets of 100 notes and subsequently bundles of 1000 notes with sequential serial numbers as per universal numbering scheme or Computerized Random Numbering (CRN) system.		
7	The machine shall ensure precise vertical cut regardless of substrate like 100% cotton furnish, Polymer, Hybrid, Durable Paper, Varnish Coated Paper etc. and even in the presence of wide security threads and/or Foil Patch etc.		
8	The machine should be complete with all required mechanical, electrical, electronics, optical, hydraulics, photo electric, pneumatic, lubrication, temperature control devices etc. and equipped with systems for automatic smooth, continuous and un-interrupted functioning.		




9	The machine should include all ancillary units as required to support its functioning.					
10	Finishing machine shall be suitable to produce good quality at least 2778 Bundles (With 60/50 ups sheets) in an 8 hour shift operation.					
11	Its working performance should be steady, smooth and consistent.					
	ESSENTIAL GENERAL SPECIFICATIONS:					
12	The machine should be able to process/finish a 'Lot' of 100 sheets into a shrink packed bundle of 1000 serially numbered notes with a provision of Lot Counting (two corners), Lot trimming, stripping, strip jogging, 100 note banding, 100 note (packet) cutting, packet collating, 1000 note banding, 1000 note counting, shrink wrap packing of 1000 notes bundle and Label Print application. Label size, pattern of scanning & printing will be furnished unit wise at the time of placing purchase order.					
13	The machine shall perform all functions automatically right from the point where 100 sheets are manually fed into the machine up to auto shrink-wrap system and label printer cum applicator.					
14	The required main parameters are:					
	Parameters	Minimum	Maximum	Unit		
	Output /hour	450	--	Bundles (1 bundle contains 1000 banknotes)With 60/50 UP Sheet		
	Paper size L x W	450 x 475	700 x 820	mm		
	No. of bank notes/sheets	4	6	Nos.		
	Cross Direction	5	10	Nos.		
	M/c Direction					
	Size of bank notes	110	180			
	Cross Direction	60	90	mm		
	M/C Direction			mm		
	Paper weight	70	100	GSM		
	Thickness of 100 note packet/Height of packet	10	15	mm		
	Thickness of 1000 note bundle/Height of bundle	100	150	mm		

	Cutting accuracy	-	±0.50	mm		
15	The machine shall have the full programmable electronic control system for doing all the operations automatically to give the finished product in 1000 note bundle containing 10 packets of 100 notes each, each finished note being exactly cut at the required positions and size.					
16	The machine shall have minimum 05 numbers of on-line counting machines. Out of this 02 for 100 sheets counting at feeding station and at least 02 for 1000 notes counting plus 01 online counting machine to verify the rejected bundles by previous 1000 counting machines.					
17	At least two additional off-line 1000 note counting machine (stand-alone mounted on table trolley) other than mentioned above should be provided along with the finishing machine.					
18	It should have standard equipment like knives, safety devices, and transparent guards for observations etc.					
19	The machine should be equipped with automatic/user friendly faster change over from one size format to another format.					
20	The machine should be equipped with standalone paper jogger near feeding station.					
21	The machine shall perform efficiently under following working conditions: Available Electric power supply: 3 Phase AC, 50 Hz ± 3%, 415 Volts ± 10%. RH : 50% to 65% Temperature : 22°C ± 2°C The descriptions given are generic in nature and therefore the machine offered should be complete in all respects for ultimate intended performance. The above given requirements are the minimum; any better version/parameters are also acceptable.					
22	The machine shall have provisions to trim all four sheet edges with the following characteristics: <div><div>Gripper edge</div><div>: 15 to 25 mm</div><div>Trailing edge</div><div>: 5 to 10 mm</div><div>Side edges</div><div>: 5 to 10 mm</div></div>					
	MODULES:					
23	SHEET FEEDING AND COUNTING STATION: The 100 sheets will be fed manually only in the machine, after counting at two corners and confirming the correct counting, sheets will be forwarded for further processing automatically till label application.					




24	<p>CUTTING STATIONS:</p> <p>The cutting stations are required to cut printed sheets of various size/ups /denominations in to required size of banknotes. It also includes cutting of side wastes. The movement of the sheets during the process should be accurate /precise to achieve the banknotes of accurate size.</p> <ol style="list-style-type: none"> 1. The cutting process shall be monitored with a suitable monitoring system to determine that the cut is performed burr and lint free. 2. Tungsten Carbide Alloy Steel Knives should be provided for accurate cutting and minimal frequency of knife change. 3. The system should ensure precise cut for High Grade security notes incorporating wide security thread, holograms, Foils etc. 4. The system should be able to precisely cut all substrates like 100% cotton furnish, Polymer, Hybrid, Durable Paper, Varnish coated Bank Note Paper etc. 5. Trim waste removal shall be guided into easy accessible waste boxes positioned underneath the cutting units. 6. Waste boxes shall preferably be equipped with suitable level sensors. 		
25	<p>100 BANDING STATION:</p> <p>100 banding station shall be suitable to band 100 notes packet with PE coated Paper & Plastic film (both) rolls having band width of 30 & 40 mm. The banding film thickness will be 52+/- 1 micron.</p> <ol style="list-style-type: none"> 1. The banding equipment shall be multiple modular components capable of being replaced quickly for maintenance and repair. 2. The system should have banding fault detectors and provision for auto stop in case of fault detection. 		
26	<p>ROTATION STATION:</p> <p>The rotation station is required to rotate 100 banknotes packets by 180 degree to achieve compensation of intaglio printing and the thickness of security thread. There should be facility to switch off this function.</p>		
27	<p>COLLATING STATION:</p> <p>This system is required to make bundle of one thousand banknotes in a correct numbering sequence which are numbered on a numbering machine with universal numbering scheme as well as CRN numbering scheme.</p> <ol style="list-style-type: none"> 1. The collating unit should be compatible with universal numbering scheme /CRN numbering system. 2. The continuity of banknotes in terms of their serial numbers should be securely maintained during the process of collecting the packets into a bundle of 1000 notes. 3. The unit should be able to collect 10 packets of banknotes to form a bundle in sequential manner as per universal numbering 		

	<p>scheme /CRN numbering system.</p> <p>4. The collating unit should be flexible enough to process different sheet layouts without major adjustments.</p>		
28	<p>1000 BANDING STATION: The machine shall be suitable for using 1000 bands of Paper & Plastic film (both) rolls having band width of 40 & 50 mm. The banding film thickness will be 52+/- 1 micron.</p>		
29	<p>1000 NOTE COUNTING STATION:</p> <p>This station should be equipped with minimum two on line counting machines which can count 1000 banknotes.</p>		
30	<p>SHRINK WRAP STATION:</p> <p>This unit is required to pack 1000 bank notes in a shrinkable LDPE/ polyolefin film. The bundle of 1000 banknotes should be sealed and packed when passed through the heating tunnel.</p>		
31	<p>LABEL APPLICATOR:</p> <p>This unit is required to capture the data, print the data and affix the printed label on the shrink wrapped 1000 banknotes bundle. The image capturing device/camera should be suitably installed at a place to read the serial number of top bank note of the bundle and forward the data to the printer for printing the label accurately.</p>		
32	<p>DELIVERY STATION:</p> <p>This shall be provided to collect the bundles suitably after affixing the label</p>		
33	<p>CENTRALISED LUBRICATION SYSTEM:</p> <p>Machine shall be equipped with automatic centralized lubrication system for lubricating the critical and major components. In case lubrication system is not functioning as desired, it should have the facility for triggering alarm to alert the operatives. Recommended lubricants with brand names and manufacturers shall be provided along with generic specifications of such lubricants; also recommended Indian equivalents for such lubricants shall be provided wherever possible.</p>		
34	<p>SYSTEM FOR MONITORING PRODUCTION DATA:</p> <ol style="list-style-type: none"> 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 machine. 3. For further analysis bidder shall provide any source code required for MIS development. 4. Shall provide data logging facilities module-wise to enable the user to identify and analyze the reasons for stoppages and breakdowns. 5. Shall have the facility to alert the user with the various maintenance and operational schedules such as preventive maintenance schedule, knife change, etc. 		

	6. Shall be suitable to monitor and collect the relevant processing information from the machine and display it in forms to assist the operators for more efficient production.		
35	<p>System shall comprise of the following hardware and software configuration:</p> <p>Hardware:</p> <ul style="list-style-type: none"> e. Main computer unit with LCD / LED monitor f. Printer g. Extended communication PCB / Computer (for communication with PLC) <p>Software:</p> <ul style="list-style-type: none"> 1. Shall have suitable security protection for start-up. 2. The system shall record the errors such as Motor overload, abnormal state of oil, etc., with the date and time of occurrence. 3. In the event of a malfunction of the machine, 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. 		
36	<p>It shall monitor and display the state/location of the items such as:</p> <ul style="list-style-type: none"> 6. Safety covers/guards 7. Guard for the manual pre-turning handle 8. Stop buttons 9. Abnormal state of oil (lubrication oil, hydraulic oil) 10. Motor overload 		
37	<p>Production management system:</p> <p>The machine production state as follows shall be controlled and displayed on the monitor screen.</p> <ul style="list-style-type: none"> 4. Processing time 5. Idle running time 6. Stoppage time (can be categorized manually into the following items) <ul style="list-style-type: none"> - Waiting time for materials - Malfunctions of the machine - Waiting time for other reasons - Emergency stop - Stoppage by any accident - Temperature indicators for various units. 		
38	<p>MAINTENANCE:</p> <ul style="list-style-type: none"> 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. 		



	<p>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</p> <p>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.</p> <p>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.</p>		
39	<p>ELECTRICAL AND ELECTRONICS CONTROL:</p> <p>Electrical control cabinets:</p> <p>1. Machine operation shall be controlled electrically by the electric control cabinets which has lighting facility inside.</p> <p>2. The machine shall have all required electrical and electronic controls.</p> <p>3. The machine should be equipped with suitable/required latest version programmable logic control (PLC) units for controlling the entire functions of the machine.</p> <p>4. All the automatic control functions should also have parallel manual functions, where ever possible.</p> <p>UPS for signal lines:</p> <p>It shall provide back up for sequential activities from feeding to delivery in case of power failure. (It shall back up in case of power failure till it completes storing the data.)</p> <p>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.</p>		
40	<p>SAFETY:</p> <p>a. 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 machine operators and maintenance engineers from accidents resulting in stopping of the machine and activation of safety locks whenever necessary.</p> <p>b. Safety Monitors: Motors, safety covers and guards etc. shall be protected by safety monitors against possible overload or the machine is being operated in an unsafe condition, to ensure the maximum safety for operator and machine parts at all times. The safety monitors shall</p>		

	<p>indicate the operational status of safety devices, defect detection, and press operation inclusive of the following.</p> <ol style="list-style-type: none"> 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 		
41	<p>ACCESSORIES REQUIRED PER MACHINE</p> <p>a. Tool Kit: 01 Set</p> <p>It should be supplied with oils and lubricants, all chemicals and consumables (Banding paper/ PVC film roll, shrink wrap film, labels, printing heads, cartridge etc. sufficient for smooth operation on three shift basis) during warranty period. The banding film thickness will be 52+/- 1 micron.</p> <p>b. Three sets (one set =02 knives i.e. one upper & one lower) of cutting knives for each station</p> <p>c. Any other standard accessory required for operation shall be supplied along with the machine.</p>		
42	<p>AUXILIARIES REQUIRED PER MACHINE</p> <p>All auxiliaries required for operation shall be supplied along with the machine.</p>		
43	<p>The firm will have to submit following documents each in 06 sets in English language only.</p> <ol style="list-style-type: none"> 1. Operation manual of the machine. 2. Maintenance manual with drawings of system assembly/sub assembly with part list/ Bearing and oil seal position and bearing numbers. 3. Electrical circuit diagram, Fault finding Charts and Spare Parts catalogue. 4. Hydraulic and Pneumatic diagram. 5. All PLC Programs & parameters in hard as well as soft copies on CD/DVD. 6. Complete list of error messages and their suggested diagnostic and remedial guidance. 7. 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). <p>One Service PC/Laptop/Test units for PLC programming, fault finding, loading, editing and correction should be provided along with each machine</p>		



Signature of representative of firm

Signatures of BNP/CNP Inspectors
