

**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 TWO NUMBERS OF INTAGLIO PRINTING MACHINES FOR CNP NASHIK.

(Tender Sl. No.): 01/BNP/P/INTAGLIO MACHINE/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 A unit of SPMCIL.”

SECTION I: NOTICE INVITING TENDER (NIT)

(Tender Sl. No.): 01/BNP/P/INTAGLIO MACHINE/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 Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) machine for banknote printing at speed of 10000 Sheets per hour.	02 Nos.	₹ 63,00,000 / € 76,000 / ¥ 88,68,300 / \$ 82,400 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	CURRENCY NOTE PRESS, NASHIK ROAD
Closing date and time for receipt of tenders	20.05.2022 up to 14:30:00
Place of receipt of tenders	CURRENCY NOTE PRESS, NASHIK ROAD
Date and Time of opening of tenders	20.05.2022 at 15:00:00
Place of opening of tenders	BANK NOTE PRESS, DEWAS
Nominated Person/ Designation to Receive Bulky Tenders (Clause 21.21.1 of GIT)	DIGANTA KUMAR DEKA Additional General Manager (Materials)

- 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.
- 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).
- 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.
- 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.
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

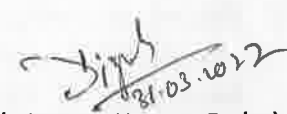
2. **Ms. Nirmal Kaur, IPS (Retd.),**
D-I/12, Nepal House,
Doranda,
Ranchi-834002
Email ID : nirmalkaur1983@gmail.com

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




(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: bnppurchase@spmcil.com;
diganta.deka@spmcil.com
devkaran.kaleshriya@spmcil.com

दिगंता कुमार डेका
अपर महाप्रबंधक (सामग्री)
बैंक नोट मुद्रणालय, देवास (म.प्र.)

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:

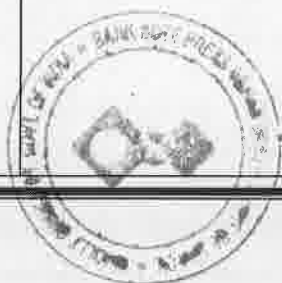
In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

(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 DD.MM.YYY
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 two numbers of Intaglio Printing Machine DUE ON <u>20.05.2022</u> UPTO 15:00 HRS (IST)". Late tenders shall not be accepted. Tenderers shall submit their offers only on prescribed forms. Tender by telegram/ fax/e-mail shall not be accepted. Tender by post/ hand/ courier received on or before the due date and time shall be accepted. Postal delay/ delay by courier service etc. shall not be condoned.</p>
5	20.9	E-procurement	Not contemplated
6	24.4	Opening of Tender	<p>The Pre-qualification bids are to be opened in the first instance, at the prescribed time and date. These bids shall be scrutinized and evaluated by the competent committee/ authority with reference to the parameters prescribed in the Pre-Qualification Criteria at Section IX of the tender document. Thereafter, in the second stage, the technical bids of only pre-qualified bidders (as decided in the first stage) shall be opened at a later date and time for further scrutiny and further evaluation. These bids shall be scrutinized and evaluated by the competent committee/ authority with reference to the parameters prescribed in the tender document. Subsequently, in the third stage the financial bids of only the technically acceptable offers (as decided in the second stage) shall be opened for further scrutiny and evaluation. Intimation regarding opening of Technical and</p> <p>Financial bids shall be given to acceptable tenderers to enable them to attend the technical and financial bid opening, if they so desire.</p>
7	34	Comparison on CIF Destination basis.	<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, CNP Nashik), including all taxes, duties, packing and forwarding charges, freight, insurance,</p>



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

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



SECTION IV: GENERAL CONDITIONS OF CONTRACT (GCC)

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

Please refer to our website for:

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

GIT (Total pages: 36)




SECTION V: SPECIAL CONDITIONS OF CONTRACT (SCC)

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

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

S No	GCC Clause No	Topics	SCC provision
1	16	Warranty	<p>The supplier warrants that the goods supplied under the contract is new, unused, and incorporate all recent improvements in design and materials unless prescribed otherwise by SPMCIL in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and / or the material used are as per SPMCIL's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.</p> <ol style="list-style-type: none"> 1. This warranty shall remain valid for twelve months after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by SPMCIL in terms of the contract. The warranty period shall start from the date of issue of FAC (Final Acceptance Certificate) by the concerned unit of SPMCIL. 2. In case of any claim arising out of this warranty, SPMCIL shall promptly notify the same in writing to the supplier. 3. Upon receipt of such notice, the supplier shall, with all reasonable time (Downtime of Machine should not be more than 10 Working days), repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/ goods after providing their replacements and no claim, whatsoever shall



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

			<p>(a) 80% of cost of material shall be arranged on receipt of the following documents :</p> <ol style="list-style-type: none"> 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 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. The negotiating bank of the SELLER should give
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			5 clear working days (in India) notice to the Letter of Credit opening bank and the PURCHASER regarding the value and date of payment.
5	24.1	Quantum of LD	If the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, SPMCIL shall, without prejudice to other rights and remedies available to SPMCIL under the contract, deduct from the contract price of individual machine, as liquidated damages, a sum equivalent to the 0.5% percent of the delayed goods and services (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 Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) machine for banknote printing at speed of 10000 Sheets per hour.	02 Nos.*	₹ 63,00,000 / € 76,000 / ¥ 88,68,300 / \$ 82,400 or equivalent currency of country of origin of goods

1. Requirement of 02 nos. of Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) for banknote printing at speed of 10000 Sheets per hour is tentative. BNP Dewas would place order either for 01 no. of machine or for 02 no. of machines, as per requirement at the time of finalization of tender.
2. 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.
3. 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 Letter of Credit.
1 st machine within 32 weeks	1st machine within 32 weeks
2 nd machine within 38 weeks	2 nd machine within 38 weeks

- 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 machines at stores of CNP Nashik. The entire machine should be installed, commissioned and tested within 16 weeks at 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 CNP basis.
4. 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.

5. Foreign nationals desirous of attending tender opening should forward their bio-data/passport, visa details along with the bids.
6. The firm should submit complete technical documents, leaflets, machine drawings, erection drawings, etc. with the technical offer.
7. All the copies of tenders shall be complete in all respects with all their attachments/enclosures duly numbered.
8. The tenderer shall quote for the installation, commissioning and training charges for all the schedules separately.
9. The total cost inclusive of all elements as cited above on FOB and on FOR Currency Note Press, Nashik Road (Maharashtra), India, basis should be indicated clearly both in words and figures in the price bid.
10. Income Tax (TDS) on installation, commissioning and training in India, if leviable, shall be borne by the tenderer.
11. 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.
12. **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.
13. The successful bidder shall provide documents/drawings for site preparation after placement of the LOI/Contract.

14. 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.



15. 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.

16. 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.

17. LICENSES AND PERMITS:

Wherever applicable, the successful bidder shall ensure himself and also satisfy the Chief General Manager, Security Printing Minting Corporation of India Limited, Unit Currency Note Press, Nashik Road that the successful bidder possesses the legal 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.

18. PRE-DISPATCH INSPECTION:

At the discretion of CNP, Nashik three authorized officials from 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 CNP Nashik.

19. TRAINING:

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

20. FALL CLAUSE:

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

21. 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 contract 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

INTAGLIO PRINTING MACHINE

- 1. Brief Description**
- 2. Essential General Specifications**
- 3. Modules**
 - 3.1. Feeder & Register Unit
 - 3.2. Inking Unit
 - 3.3. Printing Unit
 - 3.4. Centralized Lubrication system
 - 3.5. Wiping Unit
 - 3.6. Delivery Unit
 - 3.7. Thermoregulation Unit
 - 3.8. Online vision inspection system
 - 3.9. System for monitoring Production data
 - 3.10. Online Micro Perforation (Optional)
 - 3.11. Ultra Violet Drying (Optional)
- 4. Maintenance**
- 5. Electrical and Electronic Control**
- 6. Safety**
- 7. Accessories required per Machine**
- 8. Auxiliary units**
- 9. Documents requirement**



1. BRIEF DESCRIPTION:

Currency Note Press, Nashik, A unit of Security Printing and Minting Corporation of India Ltd. (SPMCIL), wholly owned by Government of India intends to procure 2 Nos. of Intaglio Printing Machine as per the details given below:

- 1.1 Automatic sheet fed intaglio printing press designed with 5 indirect printing units suitable for printing of Banknotes and other security documents by the intaglio process on one side of the sheet. All five colours shall be applied to the printing plate by indirect inking method.
- 1.2 Super-Size Intaglio machines capable of printing a Maximum sheet size of 700mm X 820 mm and minimum sheet size of 475 mm X 600 mm.
- 1.3 Intaglio machines should be compatible with the existing infrastructure/utilities presently available with SPMCIL presses.
- 1.4 Intaglio printing press shall employ a wide range of automatic mechanisms and electronic controls for providing high productivity.
- 1.5 Intaglio machine shall be suitable for reproducing the latest intaglio related Banknote features.
- 1.6 Machine should be made with a robust bed, frame and supports in order to provide the necessary structure to withstand very high pressure while printing and also when the impression goes ON and OFF.
- 1.7 Machine counter: Shall have counters for continuous recording of number of impressions / machine hours, one counter also install in feeder side for sheet counting.
- 1.8 Intaglio press shall be suitable for printing at least good quality 54000 sheets in an 8 hour shift operation.
- 1.9 Spoilage resulting under the standard operating conditions shall be less than 1.2%.
- 1.10 Intaglio Printing ink consumption per million notes shall not exceed the existing consumption pattern given below for the existing Indian banknotes.

Denomination	Consumption per million banknotes in Kgs
100	85
500	70
500 Colour Shift Intaglio Ink	2.5

- 1.11 Machine shall preferably have the facility for retrofitment of online micro perforation module & UV curing unit.
- 1.12 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 Suitable to handle all types of bank note substrates - 100% cotton furnish, Polymer, Hybrid, Durable Paper etc.



- 2.2 Maximum printing speed shall be at least 10000 SPH. Maximum Mechanical Speed shall be at least 10000 SPH.
- 2.3 Suitable pile breaking/jogger for making CWBN Paper free from stickiness (optional item)
- 2.4 Machine should have the crawl speed facility for safe cleaning of the press.
- 2.5 Shall be suitable for maximum sheet size of 700 mm X 820 mm and minimum sheet size of 475 mm x 600 mm.
- 2.6 Shall be suitable for a carrying out intaglio printing on a substrate with a range of GSM 70 to 100.
- 2.7 Maximum print area should be at least 665 mm (Circumferential) X 800 mm (Lateral).
- 2.8 Gripper margin shall not exceed 25 mm.
- 2.9 It shall be suitable for the printing plates with a dimension of 860 mm (Circumferential) X 850mm (Lateral) X 0.75 mm (Thickness). Shall be compatible with the printing plates produced from Computer to Intaglio Plate (CTiP).
- 2.10 Machine should be able to take 750 microns to 800 microns thick plate.
- 2.11 Shall accommodate poly – schablons plates for transfer of inks to collecting cylinder. Poly – schablons plates shall be compatible with the Computer to Offset Plate (CToP) system.
- 2.12 Noise level: The following levels of noise shall not exceed at the main working areas of the press, at times of full output.
 - Feeder (Loading area)
 - Main Printing Unit (Operator side)
 - Delivery (control panel and delivery piles)

} less than 85dBA
- 2.13 Shall be suitable for carrying out intaglio printing with a plate having engraving depths ranging from 10 microns to 160 microns.
- 2.14 Suitable for uninterrupted production for at least 10 years in two shifts of 8 hours per shift operation without any overhauling.
- 2.15 Life of major spares like bearings of Plate, Impression, Colleting, Schablon cylinders etc., shall be provided along with the vibration spectrum chart and thermal images of new unused machines.
- 2.16 Plate, Impression, Collecting, Wiping and Schablon cylinders shall be protected to prevent fretting of the cylinder over the entire life of the press.
- 2.17 Remote control facility shall be provided for adjustment of important parameters such as pressure settings, register adjustments.
- 2.18 All components shall resist corrosion, erosion, etching and pitting when contacted by wiping solution, printing inks, cleaning solution(s) normally encountered during printing operations.
- 2.19 The firm should provide the technical specification of all type of consumables to be used on machine within 120 days from the date of Purchase order/contract along with 10 nos. of sample piece of each variety to enable bulk procurement.

3. Modules to be incorporated in the offered machines:

- 3.1 Feeder & Register Unit
- 3.2 Inking Unit
- 3.3 Printing Unit
- 3.4 Centralized Lubrication system
- 3.5 Wiping Unit
- 3.6 Delivery Unit
- 3.7 Thermoregulation Unit
- 3.8 Online vision inspection system
- 3.9 System for monitoring Production data
- 3.10 On line Micro-Perforation module (Optional)
- 3.11 Ultra-Violet Curing unit (Optional)

3.1 Feeder & Register Unit:

- 3.1.1 Non-stop stream feeder capable of running at production speed of 10,000 sheets per hour with a capacity to pile at least up to 10000 sheets or more.
- 3.1.2 Shall have the facility for pre piling device and auxiliary pile.
- 3.1.3 Shall have the facility for elimination of static electricity.
- 3.1.4 Shall be fitted with suitable sheet separation mechanism and blast nozzles to ensure trouble free feeding.
- 3.1.5 Shall be suitable for accommodating trouble free feeding of sticky, wavy sheets, marginally mis-aligned sheets.
- 3.1.6 Shall be equipped with suitable swing grippers / suitable sheet transfer mechanism so as to adapt to the waviness in the sheet edge.
- 3.1.7 Sheet Control systems with sensors for uninterrupted production
 - i) Sheet Position monitoring system
 - ii) CWBN Paper Notch sensor (should be adjustable as per the job)
 - iii) Double sheet detection system for effective double sheet detection and control.
 - iv) Full sheet detector.
 - v) Side lay devices on both sides of the feeder board.
 - vi) Pre-front lay or other suitable mechanism
 - vii) Front lays
 - viii) Transfer control mechanisms
 - ix) Colour sensor for differentiating trial paper and Banknote paper
 - x) Crash sheet control mechanisms to avoid overloads.
 - xi) No Print Sensor
 - xii) Sheet counting mechanism



3.2 Inking Unit:

- 3.2.1 The press shall be equipped with an inking system to permit intaglio printing with no less than five independent inking units each applying individual inks (colours).

- 3.2.2 The inking units shall employ indirect ink transfer methodology for the application of ink onto the printing plates and shall be capable of successfully printing with the inks specified, including colour-shift, metallic and other intaglio inks.
- 3.2.3 Each inking unit shall include modular type leak-proof ink fountain and unobstructed ink metering mechanism.
- 3.2.4 Retractable ink carriage: The entire ink carriage shall be retractable from the operating position.
- 3.2.5 Independent drive of inking unit: With the inking carriage retracted, the operator shall be able to do ink make-ready or cleaning work of the selected unit.
- 3.2.6 Ink duct roller throw-on/off device: The ink duct roller shall go on or off against the inking rollers automatically when signalled.
- 3.2.7 The auto ink feed shall consist of 5 pumps, control panel and ink pipes/hoses which feed ink from 200 kg. ink drums to the ink ducts by pumping with suitable drive. Ink feed pump should start/stop in synchronisation with the machine. Ink feeding shall be adjustable.
- 3.2.8 The inking unit shall be capable of performing the following functions:
- i) All parts of inking units including bearings, gears, and other related parts shall be resistant to long term corrosive/abrasive action of inks and cleaning solution(s).
 - ii) Critical components of machine shall be suitably covered/protected from the ink spillage.
 - iii) Permit the use of one to five fountains selectively and when an inking fountain is not in use, it shall not be driven.
 - iv) Permit fine and coarse metering of ink onto transfer rollers via individually adjustable keys.
 - v) Each key shall be individually controllable from full open to close. At full closure, no ink film shall be transferred.
 - vi) Fountain cheeks shall not warp and shall be made out of replaceable leak tight, longwearing, non-scoring material.
 - vii) Provisions shall be made to ensure that upon engaging an ink fountain, the schablon roller shall contact the collector with the last pre-set nip pressure.
 - viii) Lateral and circumferential control of schablon registration shall be provided.
 - ix) Heating and cooling shall be maintained automatically at operator-set temperature.
 - x) Each fountain shall be equipped with suitable ink agitators to distribute and maintain the homogeneity of the ink in the fountain and prevent it from backing up in the fountain. The ink agitator shall agitate the ink over the full width of the inker. The drive shall be robust.
 - xi) Have easy access for roller mounting, cleaning and inspection.
 - xii) Shall be equipped with suitable inker cleaning device.
 - xiii) Shall have easy access for schablon mounting, cleaning and inspection.

3.2.9 Inking unit shall consist of the following:

- i) 5 ink fountains with suitable heating/ cooling system.
- ii) 5 duct rollers with suitable coating with a connection to the thermo-regulation unit.
- iii) Inking rollers for appropriate transfer of ink to the schablon roller.
- iv) 5 schablon rollers with a provision to mount polymer plates.
- v) 5 Ink agitators
- vi) 5 Auto ink pump feed
- vii) Ink level sensors for all ink ducts
- viii) Ink key control
- ix) Retractable inking carriage with optimal space for cleaning.
- x) Ink duct cleaning device for all inking ducts.
- xi) Ink duct blades for all ink ducts
- xii) Waste Ink collecting trays for all ink ducts.
- xiii) Side seals Left & Right (5 sets);
- xiv) **If required**, conveniently positioned lifting devices for handling Schablon cylinders.

3.3 Printing Unit:

3.3.1 The Intaglio print process shall provide the latest state of the art Intaglio print possibilities with the following characteristics:

3.3.2 Intaglio printing unit shall be capable of printing intaglio print elements such as latent image, micro printing, blind marks, bleed designs etc., with engravings ranging from 10 microns to 160 microns. Machine shall be designed in such a way that the vibrations are minimal so that it does not have impact on the life and performance of critical components such as wiping unit, inking unit, cylinder bearings etc.

3.3.3 The intaglio machine shall have the facility in impression cylinder, Collecting cylinder, pattern inking rollers to throw on or off automatically when signalled by the detectors and also by manual push button operation.

3.3.4 Printing Unit of the press shall consist of the following:

- a) Collecting cylinder with at least 3 segments
- b) Plate Cylinder with at least 3 segments
- c) Impression Cylinder with at least 3 segments
- d) Printing pressure measuring device
- e) Centralized Lubrication system.
- f) Wiping System

a) Plate Cylinder:

- Shall be equipped with cylinder heating and cooling devices to maintain the temperature and dimensional characteristics of the plate cylinder at all times.
- Shall be equipped with plate-clamping device for gripping the intaglio plates firmly without deforming the gripping edge.



- Shall be capable of remotely and independently adjusting the plate cylinder printing nip pressure on either side of the press when necessary.
- Shall have easy access for plate mounting, cleaning and inspection.
- Shall be equipped with devices to maintain proper positioning of the printing plates.
- Shall have provisions to enable accurate handling of the printing plates on the segments to ensure printing in registration.
- Shall be equipped with Automatic Plate cleaning device.
- Offered machine shall be suitable for the existing Printing plate specifications, current plate layout and punching system.
- Hole punching devices and related items to accurately mount the plates on the press shall be provided.

b) Impression Cylinder:

- Shall have easy access for mounting of packing boards/sheets, cleaning and inspection.
- Changing of all the Impression blankets within shortest possible time.
- Shall have provisions to reliably set, control and monitor Impression forces.
- Shall be equipped with devices to stretch the rigging flat by aligning and clamping the rigging boards and draw sheets onto the cylinder.

c) Collection Cylinder:

- Shall be equipped with cylinder heating and cooling devices to maintain the temperature
- Shall have the provision to set and maintain a circumferential and lateral inking register of colour to engraving (blanket to Intaglio plate engraving).
- Shall be equipped with devices to stretch the blanket flat by aligning and clamping on the cylinder.
- Shall accept adequate packing boards/sheets underneath the blanket.
- Shall have easy access for blanket mounting, cleaning and inspection.
- Shall be equipped with Automatic blanket cleaning device.

3.4 Centralized Lubrication system:

Printing unit 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.

3.5 Wiping Unit:

3.5.1 The press shall be supplied with a water wiping system to clean the printing plates prior to printing. The wiping system shall be compatible with the wiping solution prepared by any technology to meet the printing requirement. The wiping system of the press shall meet the following requirements:

- a) The wiping system of the press shall remove ink from all nonprinting areas of the printing plates using the supplied water wiping solution. The force of wiping roller against the printing plates shall be set, controlled, monitored and maintained within the specified range by automatic and remote controls. Appropriate cleaning system / Devices shall be provided in the wiping tank to remove the ink from the wiping roller.
- b) These system / devices shall be adjustable independently at each end.
- c) Shall have the provision to heat and/or cool the wiping roller and maintain its outside surface temperature within acceptable range.
- d) The wiping system shall not use more than 800 ltr/hr wiping solution to clean the wiping rollers.
- e) The wiping unit shall be designed to allow for the future use of alternative wiping solutions.
- e) Shall have the provision to dry the wiping cylinder prior to contact with the printing plates.
- f) Shall be made to control and maintain adequate supply of wiping solution without removal of components.
- g) Shall have the facility for the removal of all ink by flushing the entire wiper system.
- h) All components shall be suitable for effective operation under contact with highly corrosive wiping solutions. The consumables shall be cost effective. The wiper system shall be designed to ensure that the optimal service life of the Wiping.
- i) The wiping system shall be designed to ensure that there is a continuous flow of waste solution out of the tank, preventing obstructions in the waste solution collection lines.
- j) Shall have easy access for wiping cylinder mounting, cleaning and inspection.
- k) A lifting device shall be provided to lift the wiper cylinders out for cleaning or access.
- l) Provisions shall be made for semi-automatic system for removal and replacement of the wiping cylinders from and into the wiper tank.
- m) The wiping system offered should be compatible with the existing polymer coating and machining facility for wiping cylinders at the user's premises.
- n) Changing of wiping cylinder should be within shortest possible time.

3.6 Delivery Unit

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

- 3.6.1 Shall have the three full size pile delivery systems with two piles for regular delivery pile and one pile for test sheet/reject delivery (automatic pile board insertion system for test sheet pile to accommodate 500×10 boards to hold the capacity of 5000 sheets), preferably with flexibility of selecting any one full pile as test sheet pile.
- 3.6.2 All units shall have the facility for automatic Board insertion.
- 3.6.3 All units magazine shall have the capacity to hold at least 40 delivery Boards
- 3.6.4 Regular delivery pile shall have sufficient space to contain minimum 5000 sheets in each pile and each delivery board shall have the capacity to hold minimum 500 sheets and 1000 sheets.
- 3.6.5 The pile board shall descend automatically upon the output of a sheet detector signal of stack height. Also, it shall be raised or lowered by push-button operation. The pile delivery system shall permit continuous piling by changing the pile from one to the other automatically according to the number of sheets required on each pile, which has been pre-set on the counter. Defective sheets shall be delivered onto the sampling/reject pile when a signal of rejection is received from inspection system or the sampling pushbutton is pressed by the operator. Sampling can be selected from any one specific plate or all the three plates. Shall have air ducts, suction wheels, static eliminators and sheet joggers with sophisticated air control system to ensure proper delivery and alignment of sheets.
- 3.6.6 All units shall have Multi-pile trolley with forks for delivery system: The multi-pile trolley with forks enables the operator to pull out piles in one time which have been delivered to the pile delivery system.
- This trolley has forks to receive piles with pile boards.
 - The forks are raised / lowered hydraulically.
 - The trolley itself is moved manually or battery powered.

3.7 Thermoregulation unit:

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

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

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



3.8 Online Vision inspection system:

- 3.8.1 With regard to inspection system, the following parts shall be included along with the inspection system:

- a) the hood (where the inspection has to take place),
- b) vacuum bed/any other superior technique for holding the sheet for image capture
- c) Mechanical fitments for fixing camera, flash light
- d) All the signals shall be compatible for interfacing with machine PLC's.
- e) All other components such as Line scan camera, Flash light LED type, Frame grabber for acquisition, Integration with intaglio machine electronics along with installation, commissioning, testing, training to be quoted.

3.8.2 Following are the basic inspection system requirements:

- a) The imaging system shall consist of a high resolution digital scanning colour camera with a pixel size less than 0.2 mm and capable of detecting small defects in print to the extent of 0.5 mm in an isolated area.
- b) The system shall have the capability to on line inspect the entire printed sheet using reflected and transmitted lights at a continuous running speed rate of 10,000 sheets per hour.
- c) The system shall be capable of improved inspection in areas of contrast edges and shall reduce the pseudo rejections (False rejections). Inspection system shall contain necessary calibration technique for compensating the position of the sheet during image acquisition to avoid unwanted transport pseudo rejections.
- d) The system shall be sensitive to all colours.
- e) The system shall have provision for selecting sensitivity levels for different areas.
- f) The system shall have capability to change the complete tolerance parameters for any specified region, to avoid unwanted rejections due to offset colour variation.
- g) The system shall have capability to real time learning - Learning of sheets to be carried out in real time at machine rated speed as available in digital inspection system.
- h) The system shall have the capability of auto mask function of a particular pattern or position of an image.
- i) The system shall have the capability to inspect and detect highly reflective and high contrast images without any limitation like windowed security thread.
- j) The system shall have the capability to inspect and detect intensity variation in Optical Variable Inks / colour shift ink.
- k) The system shall have facility to carry out online editing (the system should be capable of carrying out editing without terminating the inspection).
- l) The system shall have the facility to view the reference image during inspection.
- m) The system shall have editing functions of copy and paste.
- n) The system shall have Zoom function.
- o) The system shall have facility to replay a minimum of 8 images.
- p) The system shall have colour coding of errors.
- q) The system shall have multiple window based interface with system backup facility, allowing the viewing and editing of the reference images during inspection.

- r) It should detect the presence/absence and continuity of all type of security thread (i.e. windowed color shift security thread, motion security thread etc).
- s) The system shall have the provision of creating minimum of eight pre-programed jobs which the operator shall select the specific job which is best suited for machine operations.
- t) Provision of error code shall be available in the system for fault finding.
- u) The inspection system shall have the capability to detect the following defects:
 - i) Paper / substrate defect: holes, tears, folded corners and crease.
 - ii) Smudgy prints.
 - iii) Under and over inking.
 - iv) Ink contamination and colour variations.
 - v) Peak errors.
 - vi) Wiping marks (minimum 0.5 mm).
 - vii) Mis-registration and other printing related defects.
 - viii) Design break and weak printing.
- ix) Bidder shall also provide compensation required for taking into account the hood curvature if any, to ensure that pseudo transport rejections are kept at minimum.
- x) Bidder shall also provide required calibration standards for image acquisition and comparison if any, and also train the users on calibration activities.
- xi) It should have provision to integrate third party sensors / inspection system to detect security feature like ink taggents.
- xii) Sheets containing unacceptable / rejected banknotes should be delivered to a dedicated rejection delivery pile.



The functional requirements mentioned above are barest minimum. The offered system should be able to inspect all the real time defects which are presently being detected. In case any superior system is offered, same shall be acceptable. Technical write up on the proposed system being offered to be provided.

3.8.3 HARDWARE AND SOFTWARE REQUIREMENTS:

The system should consist of suitable hardware and software capable of meeting specification and requirements. The bidder shall provide machine PLC source codes and any other source codes required for MIS development. The bidder shall provide all source codes for all user interface applications in hard copy as well as in soft copy. The successful bidders shall provide software license for image processing, operating system etc.

- i. Service Support: Service support should be provided for next 10 years by OEM
- ii. Shall be capable to inspect print quality of bank note sheets and presence of visible security features in all denominations at the speed of 10,000 sheets/hour.
- iii. Latest version of colour camera shall be used.
- iv. System shall be latest version of PC based. Commonly available PC and peripherals are to be used.

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

3.9 System for monitoring Production data:

- 3.9.1 Production, machine maintenance and quality related data should be collected by a central data collection service.
- 3.9.2 All relevant data should be easily accessible locally at the press.
- 3.9.3 For further analysis the system shall provide an interface to external Management Information Systems.
- 3.9.4 Shall be compatible for interfacing with track & trace facilities.
- 3.9.5 Shall provide data logging facilities module-wise to enable the user to identify and analyse the reasons for stoppages and breakdowns.
- 3.9.6 Shall have the facility to alert the user with the various maintenance and operational schedules such as preventive maintenance schedules, blanket change, plate change.
- 3.9.7 Shall be suitable to monitor and collect the relevant printing information from the banknote printing press and display it in forms to assist the operators for more efficient production.
- 3.9.8 System shall comprise of the following hardware and software configuration:

Hardware:

- a) Main computer unit with LCD / LED monitor
- b) Printer
- c) Extended communication PCB / COMPUTER (for communication with PLC Interfacing)
- 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.

Software:

- a) Shall have suitable security protection for start-up.
- b) The system shall record the errors such as Motor overload, abnormal state of oil, Actuation of Serious Defect Detectors etc., with the date and time of occurrence.
- c) In the event of a malfunction of the press, the troubleshooting function shall provide its reason/solution on the display monitor
- d) The replacement cycle of Lubrication filter/oil, Hydraulic filter/oil Pump filter (feeder/delivery) shall be controlled / monitored and a warning signal shall be displayed when the item is due for replacement.
- e) System shall monitor the machine running state.
- f) It shall monitor and display the state/location of the items such as:
 - i) Safety covers/guards
 - ii) Guard for the manual pre-turning handle
 - iii) Stop buttons
 - iv) Abnormal state of oil (lubrication oil, hydraulic oil)
 - v) Motor overload
- g) System shall monitor the machine running state.



- h) Software should detect the position of error occur and be able to indicate probable solution within the error message description.
- i) All System PC should be installed with latest version of antivirus.
- j) 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.
- k) 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.
- l) System source should be in open platform to adapt SCADA/Track trace platform to watch machine performance independently from remote place.
- m) It shall monitor and display the state/location of the items such as:
 - i. Safety covers/guards
 - ii. Guard for the manual pre-turning handle
 - iii. Stop buttons
 - iv. Abnormal state of oil (lubrication oil, hydraulic oil)
 - v. Motor overload

3.9.9 Production management system:

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

- Printing time on production sheets
- Printing time on test sheets
- Idle running time
- Stoppage time (can be categorized manually into the following items)
 - Printing preparation
 - Waiting time for materials
 - Malfunctions of the machine
 - Waiting time for other reasons
 - Emergency stop
 - Stoppage by any accident
 - Temperature indicators for various places of printing unit.
- System shall be suitable for recording of the following items:
 - Operation management number (job numbers, etc.)
 - Number of sheets fed into the printing unit by the swing gripper mechanism.
 - Number of impressions of the impression cylinder
 - Number of sheets delivered to the first delivery pile
 - Number of sheets delivered to the second delivery pile
 - Number of sheets delivered to the sampling pile
 - Number of sheets printed
 - Number of test sheets used for printing adjustment
- Overall software of the production management system should be simple, durable and light



platform to view and check old log files without system hang/crash.

3.10 Online Micro-Perforation Module (Optional):

- 3.10.1 Press shall have option to integrate laser perforating device for carrying out micro perforation of banknotes and security documents during intaglio printing.
- 3.10.2 It shall not have impact on the production speed (10000 Sheets per hour) of Intaglio machine.
- 3.10.3 It shall not increase the height or foot print of the machine.
- 3.10.4 Should be suitable for creating micro-perforation up to 60 ups.

3.11 Ultra Violet Curing unit (Optional):

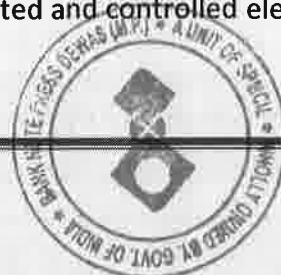
- 3.11.1 Intaglio machine shall have a compact UV curing system enabling instant drying of Intaglio inks.
- 3.11.2 Machine shall have provision for installing compact UV Curing System (optional).

4. MAINTENANCE:

- a) Detailed engineering drawings for all components in both soft and hard copies. 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.
- b) 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.
- c) Indian equivalents for all mechanical, electrical and electronic items such as spare components, Lubrications, Sensors, PLC, Pneumatics and Hydraulics shall be provided by successful bidder. Declaration to this effect to be given by the bidder along with the Technical bid.
- d) 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.
- e) Spare parts list shall be classified as First wiring spares, General Spares and rarely use spare parts for Electrical and mechanical spares.
- f) 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.).
- g) 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. ELECTRIC AND ELECTRONIC CONTROL:

- a. **Electric control cabinets:** Machine operation shall be controlled electrically by the electric control cabinets which has lighting facility inside.
- b. **Timing control:** The following timings shall be detected and controlled electrically by an encoder.
 - i. Impression cylinder throw on/off





- ii. Inking-in pattern roller throw on/off
- iii. Actuation of the serious defect detector
- iv. Feeder on/off
- v. Front lay suspension
- vi. Delivery pile switching
- vii. Sample sheet timing
- viii. Sheet counting
- ix. Feeder and delivery pump on/off

c. Sequential programmed control for printing start-up:

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

d. Defect detectors:

The defect detectors shall detect the following defects and the press shall take the pre-set actions on detection of defects such as late arrival of sheet, misalignment of sheet in front and sides, Double sheet (Mechanical & Electronic), Absence of sheet, Omitted print, No print detector on the reverse side of the sheets etc. Failure safe mode shall be available for monitoring the functionality of critical sensors.

e. Printing sheet quantity counter:

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

- a) Counting of sheets fed into the press by swing-arm grippers / suitable sheet transfer mechanism.
- b) Counting of sheets fed into first delivery pile
- c) Counting of sheets fed into the second delivery pile.
- d) Counting of test/reject sheets fed into the sampling pile.
- e) Counting of —on-impression passes of the impression cylinder.

f. UPS for signal lines:

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

g. 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.

- i. **Safety Guards:** Mechanisms on both the drive and operation sides of the press shall be fully covered and suitable lubrication at the register unit shall be employed to ensure safety, reduce wear, maintain accuracy, and improve durability of the machine. Safety covers and safety switches shall be provided to protect the press operators and maintenance engineers from accidents resulting in stopping of the machine and activation of safety locks whenever necessary.
- ii. **Safety Monitors:** Motors, safety covers and guards etc. shall be protected by safety monitors against possible overload or the press being operated in an unsafe condition, to ensure the maximum safety for operator and machine parts at all times. The safety monitors shall indicate the operational status of safety devices, defect detection, and press operation inclusive of the following.
 - a. Safety interlocks of the stop buttons
 - b) Actuation of the safety covers or safety bars
 - c) Overload of the motors
 - d) Hydraulic or lubrication error
 - e) Actuation of the serious defect detectors



7. ACCESSORIES REQUIRED PER MACHINE

7.1 Accessories required with the machine.

- a) Tool Kit (containing all tools required for maintenance and operation): 01 Set
- b) Feeder pile board: 02 Nos.
- c) Delivery pile board: 250 Nos. & 500 separators for stacking 1000 sheets each.
- d) Forks for continuous feeding
- e) Rubber Rollers for Ink transfer- 02 sets of each variety including one set coming with machine.
- f) Ink agitators – 5 Nos. excluding fitted on the machine
- g) Duct blades- 10 Nos. excluding 5 Nos. fitted on the machine
- h) Ink Side seals- 50 pairs excluding 5 pairs fitted on the machine
- i) Washing blades for roller washing unit- 10 Nos excluding 5 Nos fitted on the machine.
- j) **Schablon roller: 1 Nos.,**
- k) In case where schablon cylinder is removable.
- l) Digital poly-schablon plates-50 Nos.
- m) Carrier for Schablon Roller-1 No., in case where schablon cylinder is removable.
- n) Schablon Roller hanger: 01 No., in case where schablon cylinder is removable.
- o) Schablon roller trolley: 01 No, in case where schablon cylinder is removable.
- p) Wiping Cylinder: 06 Nos. excluding one on the machine
- q) Hanger for wiping roller: 01 No.
- r) Wiping Cylinder Trolley: 06 Nos.
- s) Suitable jixture for preparing wiping cylinder for loading into the m/c, if applicable /or fully automatic wiping cylinder mounting mechanism
- t) Plate punching machine
- u) 02 sets of spare ink feed system
- v) Any other standard accessory required for operation of the machine.

7.2 The firm should supply all the oils and lubricants, chemicals and all consumables (except banknote paper and inks) required for the smooth production of 120 working days (03 shifts per day) after completion of successful FAT. These items are excluding the items mentioned in point no. 7.1

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

8. AUXILIARIES

- a) Hydraulic control unit
- b) Wiping solution circulation control unit.
- c) 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).
- d) 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).
- e) Electric control cabinets
- f) Step-down transformer for supply of 220V
- g) Any other auxiliaries required for operation of the machine.

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 Intaglio Printing Machine

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

S. No.	Description	Parameters
1.	Total no. of Working shifts	25
2.	Number of Shifts in a day	1
3.	Duration of each shift	8 hours
4.	Effective Production time (excluding Operator oriented stoppages, cleaning, make ready, etc.,)	6 Hours
5.	Average speed of 90% of printing speed	9000 sheets per hour
6.	Targeted production per shift (in sheets)	Good Quality 54000 sheets
7.	Print Quality Check : All good sheets at examination stage 95%	95% (For intaglio print quality only)
8.	Machine speed demonstration	During every shift production at the rated machine speed (≥ 10000 sheets per hour) for one hour shall be demonstrated.

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

- If during the test period, any interruption or reduced performances occurs due to any reason solely attributable to purchaser i.e. 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.

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

- All two/three/four/five colour of the design are registered to each other on the printed sheet;
- No variation in front lay and side lay for each colour of a design on the printed sheet;
- Position of security thread and Mahatma Gandhi Portrait Watermark on the printed sheet should not be disturbed/changed with respect to the printed design of different colour.

- d) The printed sheet should not have any printing defects like scum, picking, plucking, piling, ink filling, ink smudging, mottle, ghost image, colour variations, set-off, ink streaks, etc.
- e) The printed sheet design should match with the approved sample of Reserve Bank of India/BRBNMPL/BNP, Dewas/CNP, Nashik etc. in terms of ink density, colour variation, print registration of different colours throughout the sheet, etc.

Note:

- 1. FAT shall be carried out with any 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 are any such delays, then allowance must be made by SPMCIL.
- 2. Machine oriented stoppages consist of preproduction run time, replacement of consumables, intermittent cleaning, adjustment of machine feeder, end of shift machine check and cleaning.
- 3. All the results have to be agreed by signing in the format marked as "Inspection Result"
- 4. The functional capacities of various software and hardware performance have to be demonstrated to the SPMCIL and to be proved that the same are working at optimum level.

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 the respective units 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 CNP, Nashik. Broad parameters are as under:

Important Note for Schedule I:

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

"Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) machine for banknote printing at speed of 10000 Sheets per hour"

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 number of *"Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) machine for banknote printing at speed of 10000 Sheets per hour."* with the same or higher specifications in last five years ending on 31-03-2021.
- b. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening..

2. Capability-Equipment & manufacturing Facilities: - The bidder must have an annual capacity to manufacture and supply at least one number of *"Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) machine for banknote printing at speed of 10000 Sheets per hour"* with the same or higher specifications.

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 50,40,00,000 or Euro 6,068,640 or JPY 709,459,460 or USD 6,584,790 [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 Relevant Date'.
- c. The net worth of the firm should
 - i. Not be negative on 'The Relevant Date' and
 - ii. Not have eroded by more than 30% in the last three years, ending on 'The Relevant Date'.

Note for relevant Date:-

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

A. Applicability in Special Cases

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

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



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

To

Date.....

The Chief General Manager,
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 ---xxxxx-- **(To be mentioned in the Price Bid only & not to be mentioned in PQB & Techno Commercial Bid)** (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and made part of this tender.

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

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

We agree to keep our tender valid for acceptance for a period upto -----, as required in the GIT clause 19, read with modification, if any in Section-III – “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender upto the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

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

1. MSMEs Status:

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

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



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

2. Make in India Status:

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

(a) Self-Certification for category of supplier:

- ☐ Class-I Local Supplier/
- ☐ Class-II Local Supplier/
- ☐ Non-Local Supplier.

(b) We also declare that

- ☐ There is no country whose bidders have been notified as ineligible on reciprocal basis under this order for offered product, or
- ☐ We do not belong to any Country whose bidders are notified as ineligible on reciprocal basis under this order

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

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

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

4. Debarment Status: Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ Deptts. 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 INTAGLIO PRINTING 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 Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) machine for banknote printing at speed of 10000 Sheets per hour.		02 nos.		Nhava Shava			
2.	Installation and Commissioning Charges		02 nos.		CNP Nashik			
3.	Training Charges at manufacturer's site		02 nos.					
4.	Training charges at Purchaser's site		02 nos.		CNP Nashik			
5.	Total (1+2+3+4)		02 nos.					



Optional Items

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 Online Micro Perforation (Optional)		03 nos.		JNPT Nhava			
2.	Supply of UV Curing unit (Optional)				Shava			
3.	Supply of Pile Breaker/Jogger (Optional)							
4.	Installation, commissioning, Performance Testing & Training Charges for each of the Optional Items				CNP Nashik			
4A	Online Micro Perforation unit							
4B	UV Curing unit							
4C	Pile Breaker/Jogger							

FOB price in words.....

CIF in words (for Nhava Sheva/ Mumbai port)

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

Note:

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

(Name and Signature with date)

Office Seal/Stamp



TABLE 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 and accessories which constitutes the INTAGLIO PRINTING MACHINE

Sr No	Description, Accounting unit and quantity offered	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 Sheet Fed 5 colour (minimum) Intaglio (Indirect Inking) machine for banknote printing at speed of 10000 Sheets per hour.		02 nos.					
2.	Installation and Commissioning & Training Charges							
3	Total (1+2)							



Optional Items

Sr No	Description, Accounting unit and quantity offered	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 Micro Perforation (Optional)		03 nos. (01 each)					
2.	Supply of UV Curing unit (Optional)							
3.	Supply of Pile Breaker/Jogger (Optional)							
4.	Installation, commissioning, Performance Testing & Training Charges for each of the Optional Items							
4A	Online Micro Perforation							
4B	UV Curing unit							
4C	Pile Breaker/Jogger							

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' Authorisation Form (if applicable for this tender);
 - (ix) SPMCIL's Notification of Award

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

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

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

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

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

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

(ii) Delivery schedule

(iii) Details of Performance Security

(iv) Quality Control

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

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

(v) Destination and despatch instructions

(vi) Consignee, including port consignee, if any

(vii) Warranty clause

(viii) Payment terms

(ix) Paying authority

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

For and on behalf of.....

Received and accepted this contract

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

For and on behalf of

(Name and address of the supplier)

.....
(Seal of the supplier)

Date:

Place:



**Section XVII: Letter of Authority for attending a
Pre-bid Conference/ Bid Opening
(Refer to clause 24.2 of GIT)**

The Chief General Manager

Unit Address

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

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

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

Note:

- 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.
- 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.
- Permission for entry to the hall where even is held may be refused in case authorization as prescribed above is not produced.



Section XVIII: Proforma of Bills for Payments

(Refer Clause 22.6 of GCC)

Name and Address of the Firm.....

Bill No..... Dated.....

Purchase order.....No.....Dated.....

Name and address of the consignee.....

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

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



Dispatch detail RR No. other proof of despatch.....

Dated.....(enclosed)

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

Place and Date

Received Rs.....

Rupees).....

We solemnly certify that:

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

Revenue stamp

Signature and of Stamp Supplier

Section XIX: NEFT Mandate

(Refer clause 22.2 of GCC)

From: M/s. Date:

To:

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

Sub: NEFT payments

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

NATIONAL ELECTRONIC FUNDS TRANSFER MANDATE FORM

1.	Name of City	
2.	Bank Code No.	
3.	Branch Code No.	
4.	Bank's Name	
5.	Branch Address	
6.	Branch Telephone / Fax No.	
7.	Supplier's Account No.	
8.	Type of Account	
9.	IFSC code for NEFT	
10.	IFSC code for RTGS	
11.	Supplier's name as per Account	
12.	MICR Code No.	
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 <i>(Name of the Officer and Designation)</i> <i>(Office Seal)</i>	For and On behalf of Bidder/Contractor <i>(Name of the Officer and Designation)</i> <i>(Office Seal)</i>
---	---

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 OF INTAGLIO PRINTING MACHINE

Inspection period:

Machine model & Serial no.:

Contract no. & Date:

Sr. No.	Technical specifications as per contract	Conformity YES/NO	Remarks if any.
1	Maximum printing speed		
2	Crawl speed facility		
3	Maximum sheet size - 700 mm X 820 mm		
4	Minimum sheet size - 475 mm X 600 mm		
5	Maximum print area – 665 mm (Circumferential) X 800 mm (Lateral)		
6	Gripper margin not exceeding 25 mm		
7	Dimensions of Printing plates – 860 mm (Circumferential) X 850 mm (Lateral) X 0.75 mm (Thickness)		
8	Poly – schablon plates for transfer of inks to collecting cylinder.		
9	Noise level: Noise level at the main working areas of the machine during machine operation at rated speed - less than 85 dBA		
10	Vibration spectrum chart of bearings of Plate, Impression, Collecting etc.		
11	Remote control facility for adjustment of important parameters such as pressure settings, register adjustments.		
12	The machine shall perform efficiently under available Electric Power Supply of 3 phase AC, 50 Hz \pm 3%, 415 Volts \pm 10%		
13	Feeder & Register Unit:		
a)	Non-stop stream feeder capable of running at production speed of 10,000 sheets per hour with a capacity to pile at least up to 10,000 sheets or more.		
b)	Facility for pre piling device and auxiliary pile.		
c)	Facility for elimination of static electricity.		
d)	Sheet separation mechanism and blast nozzles		
e)	Swing grippers / suitable sheet transfer mechanism		
f)	Sheet Control systems with sensors for uninterrupted		

	<p>production</p> <ul style="list-style-type: none"> i) Sheet Position monitoring system ii) Double sheet detection system for effective double sheet detection and control. iii) Full sheet detector. iv) Side lay devices on both sides of the feeder board. v) Front lays vi) Transfer control mechanisms vii) Colour sensor for differentiating trial paper and Banknote paper viii) Crash sheet control mechanisms to avoid overloads. 		
14	Inking Unit:		
a)	Five independent inking units each applying individual inks (colours).		
b)	Indirect ink transfer methodology for the application of ink onto the printing plates.		
c)	Retractable ink carriage		
d)	Independent drive of inking unit		
e)	Ink form roller throw-on/off device		
f)	Five independent auto ink feed unit		
g)	Use of one to five fountains selectively and when an inking fountain is not in use, it shall not be driven.		
h)	Fine and coarse metering of ink onto transfer rollers via individually adjustable keys.		
i)	Lateral and circumferential control of Schablon registration		
j)	Heating and cooling maintained automatically at operator-set temperature (10°C to 30°C) for all five ducts individually.		
k)	5 ink fountains with electrical heater provision.		
l)	5 duct rollers with connection to the thermo-regulation unit.		
m)	Inking rollers for transfer of ink to the schablon plate.		
n)	5 schablon rollers with a provision to mount polymer plates.		
o)	5 Ink agitators		
p)	5 Auto ink feed pumps		
q)	Ink level sensors for all ink ducts		
r)	Ink key control		
s)	Retractable inking carriage with optimal space for cleaning.		
t)	Ink duct cleaning device for all inking ducts.		

u)	Ink duct blades for all ink ducts		
v)	Waste Ink collecting trays for all ink ducts.		
w)	Side seals Left & Right (5 sets)		
15	Printing Unit:		
a)	Plate Cylinder with at least 3 segments		
b)	Cylinder heating and cooling devices for Plate & Collecting cylinders		
c)	Plate-clamping device for gripping the intaglio plates firmly without deforming the gripping edge.		
d)	Remote and independent adjustment of printing nip pressure on either side of the machine		
e)	Automatic Plate cleaning device.		
f)	Impression Cylinder with at least 3 segments		
g)	Provisions to set, control and monitor Impression pressure.		
h)	Collecting cylinder with at least 3 segments		
i)	Provision to set and maintain a circumferential and lateral inking register of colour to engraving (blanket to Intaglio plate engraving).		
j)	Automatic blanket cleaning device.		
k)	Impression cylinder, Collecting cylinder, Schablon inking rollers throws on or off automatically when signalled by the detectors and also by manual push button operation.		
16	Centralized Lubrication system: automatic centralized lubrication system for lubricating the critical and major components		
17	Wiping Unit:		
a)	Aqua based wiping system to clean the printing plates prior to printing.		
b)	Wiping of ink from all nonprinting areas of the printing plates.		
c)	Pressure adjustment of wiping cylinder towards plate cylinder on both side (drive side & operator side)		
d)	Provision of maintaining wiping cylinder temperature		
e)	Provision to dry the wiping cylinder prior to contact with the printing plates.		
f)	Removal of entire ink sludge accumulated in tank by flushing the entire wiper system.		
g)	Provisions for lifting wiper cylinder from and into the wiper tank.		

18	Delivery Unit		
a)	Proper aligned delivery of printed sheets in pile.		
b)	Three full size delivery pile - two for good sheets and one for test sheet/reject sheets.		
c)	Facility for automatic delivery pile board insertion.		
d)	Magazine shall have the capacity to hold at least 40 delivery pile boards.		
e)	Regular delivery pile shall have sufficient space to contain minimum 5000 sheets in each pile and each delivery board shall have the capacity to hold up to 1000 sheets (which has been pre-set on the counter).		
f)	The pile board shall descend automatically upon the output of a sheet detector signal of stack height. Also, it shall be raised or lowered by push-button operation. The pile delivery system shall permit continuous piling by changing the pile from one to the other automatically according to the number of sheets required on each pile, which has been pre-set on the counter. Defective sheets shall be delivered onto the sampling/reject pile when a signal of rejection is received from inspection system or the sampling push button is pressed by the operator. Sampling can be selected from any one specific plate or all the plates. Shall have air ducts, suction wheels, static eliminators and sheet joggers/sophisticated air control system to ensure proper delivery and alignment of sheets.		
g)	Trolley to pull out delivered sheets pile.		
h)	The trolley shall be raised / lowered hydraulically.		
i)	The trolley shall move by battery power.		
19	Thermoregulation unit for controlling the heating / cooling of the various cylinders of Intaglio machine		
20	Online Vision inspection system		
a)	A high resolution digital scanning colour camera with a pixel size less than 0.5 mm.		
b)	Capability to on line inspect the entire printed sheet using suitable lights at a continuous running speed rate of 10,000 sheets per hour.		
c)	Provision for selecting sensitivity levels for different areas.		
d)	Capability to real time learning - Learning of sheets to be carried out in real time at machine rated speed as available in digital inspection system.		

e)	Facility to carry out online editing (the system should be capable of carrying out editing without terminating the inspection).		
f)	Facility to view the reference image during inspection.		
g)	Editing functions of copy and paste.		
h)	Zoom function.		
i)	Facility to replay a minimum of 8 images.		
j)	Colour coding of errors.		
k)	Multiple Window based interface with system backup facility, allowing the viewing and editing of the reference images during inspection.		
l)	Provision of creating minimum of eight pre-programed jobs		
m)	Provision of error code for fault finding.		
n)	The inspection system shall have the capability to detect the following defects:		
i)	Paper / substrate defect like holes, tears, folded corners and crease.		
ii)	Smudgy prints.		
iii)	Under and over inking.		
iv)	Ink contamination and colour variations.		
vi)	Wiping marks (minimum 0.5 mm).		
vii)	Printing related defects.		
viii)	Design break and weak printing.		
xii)	Sheets containing unacceptable / rejected banknotes should be delivered to a dedicated rejection delivery pile.		
m)	Provision to operate the machine with or without inspection with password protection.		
21	System for monitoring Production data:		
a)	Central data collection service.		
b)	Easy accessibility to data.		
c)	Hardware:		
i)	Main computer unit with LCD / LED monitor		
ii)	Printer (LaserJet printer without scanning facility)		
iii)	Extended communication PCB / COMPUTER (for communication with PLC Interfacing)		
d)	Software:		
i)	Security protection for start-up.		

ii)	Monitoring the machine running state.		
22	Production management system:		
	Following details are controlled and displayed on the monitor screen.		
a)	Printing time of production sheets		
b)	Printing time of test sheets		
c)	Idle running time		
d)	Stoppage time		
e)	Sheet counting records		
23	MAINTENANCE:		
a)	Provision of a transparent viewing area at effective & appropriate places		
24	ELECTRIC AND ELECTRONIC CONTROL:		
a)	Electric control cabinets		
b)	Timing control		
c)	Defect detectors		
d)	UPS for signal lines		
e)	Fluorescent/LED lamps		
25	SAFETY		
a)	Safety Guards		
b)	Safety Monitors		
26	Accessories as per Technical specifications of contract		
27	Auxiliaries as per Technical specifications of contract		

Signature of representative of firm

Signatures of CNP Inspectors

