



Bharatiya Reserve Bank Note Mudran Private Limited,
Corporate Office, Bengaluru
No. 3 & 4, 1st Stage, 1st Phase, BTM Layout
Bannerghatta Road, Bengaluru – 560029

Date: April 16, 2025

CORRIGENDUM /AMENDMENT - 4

Tender No.: 07/CO/GT/NBG/2024-25 dated 16th January 2025

Tender Name: Design, Manufacturing, Testing, Supply, Installation, Commissioning, Training and Performance Testing of 06 nos. of Numbering machines for Banknote printing (03 nos. for Mysuru and 03 nos. for Salboni).

Extension of date for submission of Tender

The following contents of the Tender No. mentioned above are amended as per the details given below:

Description	Existing as per Section I: Notice Inviting Tender	Revised details as per Corrigendum/ Amendment - 4	Ref Page number of Tender
Date of Sale of tender documents	From 16 th January 2025 to 04 th March 2025 during office hours, i.e 09.45 Hrs to 18.00 Hrs	From 16 th January 2025 to 09 th May 2025 during office hours, i.e. 09:45 Hrs to 18:00 Hrs	5
Closing date and time for receipt of tenders	10.30 Hrs on 05 th March 2025	10:30 Hrs on 12 th May 2025	6
Time and date of opening of Technical tender (Part I)	11.00 Hrs on 05 th March 2025	11:00 Hrs on 12 th May 2025	6

Note: The changes / modifications carried out in this corrigendum are applicable to all other places mentioned anywhere in the tender document including Page No(s) as given.

Pre-Bid Meeting held on February 11 & 12, 2025

Reply of BRBNMPL to the pre-bid queries raised by the intending bidders viz. M/s Koenig & Bauer Banknote Solutions SA and M/s Komori Corporation, Japan with reference to the above original tender have been addressed in the respective clauses of the tender and hereby enclosed (section wise) in the subsequent pages.

All other terms and conditions remain unchanged.

This Corrigendum/ Amendment forms part of the referred Tender. This page of Corrigendum/Amendment is to be submitted along with Techno-Commercial Bid (Part – I) duly signed and sealed by authorised signatory.

-Sd-
(M V Rajanikanth)
General Manager

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11)	In addition to the above, Minutes of the pre-bid meeting held on February 11 & 12, 2025 at BRBNMPL, Corporate Office, Bengaluru is enclosed (36 pages) at the end of this corrigendum.			

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
1)	39 to 41	III	Special Instructions to Tenderers (SIT)

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

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

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

Sl. No.	GIT Clause No.	Topic	SIT Provision
1.	2	Submission of tenders in Hindi or English	To be submitted in English only.
2.	3	Eligible Tenderers	Only Manufacturers of Numbering machines for Banknote printing (of Security Printing)
3.	4	Eligible Goods and Services (Origin of Goods)	Any country is acceptable. Subject to GOI guidelines issued from time to time (Land Border Sharing Declaration- Annexure-3)
4.	8	Pre bid Conference	Pre-bid meeting held on February 11 & 12, 2025.
5.	11.1 & 11.2	Tender Currency	Bidders to quote the price preferably in Indian Rupees (INR). In case if the bidder quotes in other currency, such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the B.C. selling exchange rates established by the State Bank of India for similar transactions, as on the date of tender opening for L1 determination. In case of any bank holiday, the previous day's closing price will be considered.
6.	12.10	GST	As applicable.
7.	12.11	Applicability of Octroi and Local taxes	No change.
8.	13	Indian Agents	The bidder firm shall not employ any agents.
9.	14	Price Variation Clause & Formula	No change.

Sl. No.	GIT Clause No.	Topic	SIT Provision
10.	18.5	EMD Validity	180 days plus 45 days (Totaling to 225 days) from the date of opening of Tender (exclusive of claim period).
11.	19	Tender Validity	180 days. In exceptional cases, the validity of the tender may be extended as per the requirement.
12.	19.2	Tender Validity	In case if any of the bidder is not agreeable for extension of tender validity as mentioned in the clause, then purchaser at its discretion may ask all the bidders to submit revised price bid.
13.	20.4	Number of Copies of Tenders to be submitted	Single Copy only
14.	20.8	Signing and sealing of tender	No Change
15.	20.9	E-Procurement	Not applicable
16.	34	Comparison on CIF destination basis	Initial L1 determination of Bids will be done based on the Table D of Section XI: Price Schedule . The awarding of contract will be based on the Additional factors for Evaluation of Offers as explained in the Note A under Section III: Special Instructions to Tenderers (SIT)
17.	35.2	Additional Factors and Parameters for Evaluation and Ranking of Responsive tenders	Prospective bidders should meet our tender conditions as well as the proposed works should meet required specifications Please see Note-A below
18.	35.3	Price Preference to SSI	Not applicable
19.	43	Parallel Contracts	Not applicable
20.	50.1	Tender For rate Contracts	Not applicable
21.	50.3	Performance Security	“As clarified in Note-A (Special Instructions to Tenderers)”
22.	51.1, 51.2	PQB Tenders	Not applicable
23.	52.1, 52.3, 52.5	Tenders involving Purchaser's and Pre Production Samples	Not applicable

Sl. No.	GIT Clause No.	Topic	SIT Provision
24.	53.4, 53.5, 53.7	EOI Tenders	Not applicable
25.	54, 54.3.1, 54.5.2	Tenders for Disposal of Scrap	Not applicable
26.	55.2, 55.3, 55.7, 55.8	Development / Indigenization Tenders	Not applicable
27.	54.5	Non-Misuse Declaration	Applicable for Dismantling, Disassembly and Defacing of Existing Machines
28.	12.5	Tender Prices [12.5 a)] [12.5 b)]	<p>Could be either CIF or FOR basis as per Price Schedule. Applicable GST on Dismantling, Disassembly and Defacing offer shall be borne by successful bidder.</p> <p>The present rate of GST is 18%. The bidder needs to mention the GST rate considered in their quotation. In case the rate of GST prevailing at the time of payment is less than the GST rate considered by the bidder, BRBNMPL will deduct the GST amount considered by the bidder even though BRBNMPL is required to pay less GST. However, in case at the time of payment, the actual GST rate is more than the rate considered by the bidder, the additional amount towards GST shall be borne by BRBNMPL.</p> <p><u>The Sales Tax, VAT and Excise Duty may be read as GST wherever applicable in this Tender.</u></p>
29.	6.1	Section XX : Pre Contract Integrity pact	<p>Applicable</p> <p>Integrity Pact(IP)</p> <p>a) IP is a tool to ensure that activities and transactions between the Company (BRBNMPL) and its Bidders / Contractors are handled in a fair, transparent and corruption free manner. An Independent External Monitor (IEM) has been appointed to oversee implementation of IP in the company. The IP as enclosed with the tender at Section XX is to be submitted (duly signed by authorized signatory who signs in the offer) along with Techno-Commercial bid. Only those bidders who have entered into such an IP with the company would be competent to participate in the bidding. In other words, entering into this Pact would be a</p>

Sl. No.	GIT Clause No.	Topic	SIT Provision
			<p>preliminary qualification. Detail of IEM's for this tender is furnished below:</p> <p>Name of the IEM: Shri Ravi Dutt Kamboj</p> <p>Email: rdkamboj@yahoo.com</p> <p>Name of the IEM: Shri Ravendra Singh</p> <p>Email: ravendra026@gmail.com</p> <p>b) Please refer the concerned Section of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the IEM mentioned in the tender.</p> <p><u>Note:</u></p> <p>No routine correspondence shall be addressed to the IEM (phone / post / email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification / issues shall be addressed directly to the tender issuing (Procurement) department.</p>

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
2)	42 to 55	III	Special Instructions to Tenderers (SIT) - Note –A (Special Instruction to Tenderers)

Note –A (Special Instruction to Tenderers)

Sl. No. 16 & 17: Additional factors for Evaluation of Offers

Final L1 Evaluation of Bids will be arrived based on the methodology adopted below

METHODOLOGY FOR CALCULATION OF LIFE CYCLE COST

The bidders are required to furnish data in the below given Table 1 (Power consumption) and of Section XI: Price schedule. BRBNMPL will calculate Total Operating cost for all the bidders based on the data provided with respect to Power, Spares consumption and Health checkup in monetary terms starting from the date of FAC till life cycle of the machine (10 years).

1. Power consumption cost (Table 1)
2. Maintenance spares cost (Preventive maintenance spares & Breakdown maintenance spares (Table E, F, G & H of Section XI: Price schedule)
3. Condition Monitoring - Health check-up (Table 'I' of Section XI: Price schedule)

Discount Factor (by applying discount of 8% per year)

The future Operating costs of Power & Spares are discounted to Present value. Year wise discount factor which will be used for 10 years are given below.

Year	1	2	3	4	5	6	7	8	9	10
Discount factor	1	0.92593	0.85734	0.79383	0.73503	0.68058	0.63017	0.58349	0.54027	0.50025

Initially, **Saving to Investment Ratio (SIR)** will be calculated by BRBNMPL for each bidder and based on the Saving to Investment Ratio value arrived, it will be decided whether the bidder is further considered for calculation of **Life Cycle Cost (LCC)**. (Calculation of Saving to Investment Ratio and Life Cycle Cost are explained below).

CONDITIONS FOR AWARDING OF CONTRACT BASED ON ORIGINAL QUOTED PRICE (OQP) AND ON LIFE CYCLE COST

- If the Saving to Investment Ratio for those bidders are greater than one, then these bidders are further evaluated to arrive at their new ranking based on the Life Cycle Cost. Life cycle cost of respective bidder is sum of his OQP Price and his Total Operating Cost. Based on the new ranking derived, the contract shall be awarded to the bidder whose Life Cycle Cost is lowest (as per Table 5).*
- If the Saving to Investment Ratio for those bidders are equal or less than one, then these bidders are not considered for further evaluation of Life Cycle Cost.*
- If none of the bidders' Saving to Investment Ratio is greater than one, then the contract shall be*

awarded to the Original Quoted Price L1 bidder (as per Table D of Section IX: Price Schedule).

- d. *It may be noted that higher SIR ratio is not the criteria to become L1. The bidder with SIR greater than one and least discounted Life Cycle Cost will be considered as L1 except in case of “c”.*

Example:

If four bidders were participated in the Tender and if their Saving to Investment Ratio are found to be as given below

Bidder	Status as per OQP	SIR Ratio	Remark
Bidder P –	L1	NA	Nil
Bidder Q -	L2	1.70	Qualifies for life cycle cost calculation
Bidder R -	L3	0.73	Not considered for further evaluation of life cycle cost calculation
Bidder S -	L4	1.61	Qualifies for life cycle cost calculation

SAVING TO INVESTMENT RATIO

Saving to Investment Ratio = Incremental Saving Cost (B) / Incremental Investment cost (A)

Incremental Investment cost (A)

Incremental Investment cost will be calculated for all the bidders with reference to Original Quoted Price L1 (OQP L1) bidder i.e. the Incremental Investment cost for all the other bidders is the difference of Investment cost of other bidder to the Investment cost of OQP L1 bidder. (as per the price submitted under Table D of Section XI: Price Schedule).

Incremental Investment cost for a bidder (A) = Investment cost of other bidders – Investment cost of OQP L1

Example:- Incremental Investment cost of bidder Q = Investment cost of bidder Q –
Investment cost of bidder P

Incremental Saving Cost (B)

Total Operating Cost (for life cycle of the machine) = Power consumption cost+ Maintenance spares cost

Incremental Saving Cost will be calculated for all the bidders with reference to OQP L1 bidder i.e. the Incremental Saving cost for all the other bidders is the difference of Total Operating cost of OQP L1 bidder to the Total Operating cost of other bidder.

Incremental Saving Cost (B) = Total Operating cost of OQP L1- Total Operating cost of other bidders

Example:- Incremental Saving Cost of bidder Q = Total Operating cost of bidder P- Total Operating cost of bidder Q

LIFE CYCLE COST

Life Cycle Cost = Investment Cost (OQP Price) + Total Operating Cost (for entire life cycle of the machine)

(The contract shall be awarded on the Original Quoted Price to the bidder whose Life Cycle Cost is lowest as per Table 5).

Bank Guarantees to be submitted by the bidders

A. Performance Bank Guarantee

1. Within 21 days of issue of the Letter of Intent, the successful bidder must submit **two sets of Security Deposits** by way of Bank Guarantees **for each machine**. The first Bank Guarantee (BG) is for the machine performance while the second BG is for the Maintenance Spares. These two Bank Guarantees have to be submitted separately for each machine. Thus, total 12 Bank Guarantees have to be submitted for 6 machines as per the amount mentioned below:
 - Bank Guarantee for machine performance - 5% of the total contract value for each machine (on CIF basis) over the period of 10 years
 - Bank Guarantee for maintenance spares - 5% of Spare cost quoted for each machine over the period of 10 years (as quoted in the 'Table E & G' of Section XI: Price Schedule).
 - If optional unit(s) are procured, Bank Guarantee for maintenance spares - 5% of Spare cost quoted for each optional unit over the period of 10 years (as quoted in the 'Table F & H' of Section XI: Price Schedule).
2. The performance BG is surety to prove the performance of all the machine's parameters & operational efficiency as claimed by the bidders during its entire life cycle of the machines (10 years) by using the required inputs like Ink, paper and other consumables.
3. If any machine parameters (as per Section VII-Technical specification under Sl.No.2 Essential Machine parameters) are not proved by the bidder during FAT, performance BG will be invoked and purchaser may reject the machine consequently requiring the supplier to repay the total money paid for the machine within 3 months of such rejection.

B. Power Consumption & Calculation of compensation amount for excess Power consumption

1. The standard power consumption of Numbering machine and the optional units as declared by the bidder, will be used to derive the total power consumption cost for 10 years period for each machine, which will be taken into consideration in Life Cycle Cost calculation.
2. During FAT of the numbering machine, the successful bidder is required to prove that actual power consumption is less than or equal to the standard power consumption as claimed in their bid (both numbering machine and optional units). In case, optional unit(s) are procured by BRBNMPL at a later date, then during FAT of the optional unit(s), the successful bidder shall prove that actual power consumption of the optional unit(s) along with Numbering machine is less than or equal to the standard power consumption as claimed in their bid.
3. If the average power consumption of the individual machine / optional unit (s) exceeds the standard power consumption as claimed in their bid, then the recovery for the excess power consumption of the entire Life Cycle will be calculated as follows:

Recovery amount = (Average Power consumption during FAT – Standard Power consumption declared in the bid) x 2 Shift x 300 days x 10 Years x Rs.8 per unit.

4. The above recovery amount, if any, will be deducted from the due amount payable to the successful bidder. In case, the recovery amount is more than the amount due for payment, then the same has to be paid by the supplier to BRBNMPL within 30 days from the date of notifying. In case of non-payment of dues within 30 days, then the amount shall be recovered by BRBNMPL by invoking performance BG submitted by the supplier.

C. Spares - Calculation of compensation amount for Spares

1. All the spare part prices quoted in the tender towards both Preventive and Breakdown spares shall remain firm for a period of 10 (Ten) years from the date of FAC.
2. The bidders have to submit the list of preventive spares required for 10 years (year wise) on CIF basis against the amount quoted in the price bid.
3. Maximum only 25% variation in total spare items from the furnished list for a particular year shall be allowed. The actual preventive spares list shall be furnished by the successful bidder at least 6 months before start of the succeeding year with variation, if any, for procurement by BRBNMPL. Else, the furnished list in the tender shall be procured by BRBNMPL.
4. Any increase in the preventive spares total value during any year of the contract period, shall be borne by the successful bidder.
5. The list of breakdown spares required on F.O.R. basis to General Stores, BRBNMPL, Mysuru / Salboni shall be annexed with Section XI-Price Schedule.
6. The total amount of breakdown spares consumption during each block of 3 years should be within the quoted amount. Any increase in the breakdown spares total value in any block of 3 years, shall be borne by the successful bidder.
7. If breakdown spares are not supplied within the stipulated timeline (time mentioned under the clause of “Availability of Spares”), compensation amount per day for the delayed period shall be 1% of the total ordered values of spares.

1. POWER CONSUMPTION

The bidders are required to submit the power consumption of their machine (including the power requirement for all auxiliaries, compressors and pumps etc) and also optional units in terms of KWH (Kilowatt Hour) per shift basis in the table given below.

Following factors will be considered for the Power consumption cost for life cycle.

- Two Shifts per day (09 hours working per shift)
- 300 Working days per Year
- Rate: Rs.8.00/- per KWH shall be used for calculation of cost of power consumption
- Life cycle period considered – 10 years

Projected / anticipated power consumption of per machine over a period of 10 years.

Bidders should furnish Power consumption in KWH per shift per machine basis in the below table

TABLE 1:

Projected / anticipated power consumption of per machine over a period of 10 years (To be filled by bidders)

Sl. No.	Power consumption in KWH per machine per shift	1 st Year	2 nd year	3 rd year	4 th year	5 th year	6 th year	7 th year	8 th year	9 th year	10 th year
1.	Power consumption of Numbering Machine including Auxiliaries excluding Varnish unit & Over print in KWH per machine per shift (09 hours)										
2.	Power consumption of Varnish unit in KWH per machine per shift (09 hours)										
3.	Power consumption of Overprint unit in KWH per machine per shift (09 hours)										
4.	Total Power consumption of Numbering Machine including Auxiliaries along with Varnish unit & Over print in KWH per machine per shift (09 hours) (Sum Sl. No. 1 to 3)										

TABLE 1A

ILLUSTRATION (Calculation for Power consumption cost)

Power consumption of Bidder P												
Sl. No.	Power consumption in KWH per machine per shift	1 st Year	2 nd year	3 rd year	4 th year	5 th year	6 th year	7 th year	8 th year	9 th year	10 th year	Cumulative total
1.	Total Power consumption of Machine including Auxiliaries (except Varnish unit and Overprint unit) in KWH per machine per shift (09 hours)	300	300	300	300	300	300	300	300	300	300	
2.	Total Power consumption of Machine including Auxiliaries along with Varnish unit and Overprint unit in KWH per machine per shift (09 hours)	400	400	400	400	400	400	400	400	400	400	
3.	Rate Per Kwh in Rs.	8	8	8	8	8	8	8	8	8	8	
4.	Amount in Rs. Per machine per shift [Sl. No. 2x3]	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	

5.	Discount factor	1.00000	0.92593	0.85734	0.79383	0.73503	0.68058	0.63017	0.58349	0.54027	0.50025	
6.	Amount in Rs. Per shift per machine after applying discount factor (Sl. No. 4*5)	3200	2962.96	2743.48	2540.26	2352.1	2177.87	2016.54	1867.17	1728.86	1600.8	23,190.04
7.	Total cost of Power consumption for a period 10 years for 06 machine in 2 shifts in Rs. (rounded off)	Cumulative total at Sl. No.6 x 300 days X 2 shift X 6 machines										8,34,84,144

Similarly, calculation will be done in the above pattern for Power consumption for all the bidders based on the data provided by the bidders in the Table 1 above.

2. PREVENTIVE MAINTENANCE SPARES

The bidders should submit prices towards preventive maintenance spares as per the Table E & F of Price Schedule – Section XI and breakdown spares as per the Table G & H of Price Schedule – Section XI, for both machine and Optional unit (s) **(Price should not be quoted here)**

TABLE 2

ILLUSTRATION (Calculation for Preventive Maintenance Spare consumption cost of both numbering machine and Optional units)

Preventive Maintenance spares cost of Bidder P												
Sl. No	Year	Preventive Maintenance spares list for 1 st year	Preventive Maintenance spares list for 02 nd year	Preventive Maintenance spares list for 03 rd year	Preventive Maintenance spares list for 04 th year	Preventive Maintenance spares list for 05 th year	Preventive Maintenance spares list for 06 th year	Preventive Maintenance spares list for 07 th year	Preventive Maintenance spares list for 08 th year	Preventive Maintenance spares list for 09 th year	Preventive Maintenance spares list for 10 th year	Cumulative Total
1.	Recommended quantity of Maintenance Spares per machine	00	100	120	120	120	130	140	150	160	170	
2.	Amount in Rs.	00	3,00,000	5,00,000	6,00,000	9,00,000	13,00,000	16,00,000	18,00,000	25,00,000	25,00,000	
3.	Discount factor	1.00000	0.92593	0.85734	0.79383	0.73503	0.68058	0.63017	0.58349	0.54027	0.50025	73,88,882
4.	Maintenance spare cost in Rs. Per machine after applying discount factor	00	2,77,779	4,28,670	4,76,298	6,61,527	8,84,754	10,08,272	10,50,282	13,50,675	12,50,625	
5.	Maintenance spare cost in Rs. for 6 machines over a period of 10 years	Cumulative total at Sl. No.4 * 6 machines										4,43,33,292

Similarly, calculation will be done in the above pattern for all the bidders based on the data provided by the bidders in Section XI: Price Schedule.

TABLE 3

ILLUSTRATION (Calculation for Breakdown Maintenance Spare consumption cost of both numbering machine and Optional units)

Break down Maintenance spares cost of Bidder P					
Sl. No	Year	Breakdown Maintenance spares for 2 nd to 04 th year	Breakdown Maintenance spares list for 5 th to 07 th year	Breakdown Maintenance spares list for 8 th to 10 th year	
1.	Recommended quantity of Spares (main machine, numbering box, Number Verification system, Varnish unit and Overprint unit per machine	As per the list (List to be provided by the bidder along with delivery timeline of 10 working days / 2 months time)	As per the list (List to be provided by the bidder along with delivery timeline of 10 working days / 2 months time)	As per the list (List to be provided by the bidder along with delivery timeline of 10 working days / 2 months time)	Total
2.	Maintenance spare cost in Rs. Per machine	10,00,000	20,00,000	30,00,000	60,00,000
3.	Maintenance spare cost in Rs. for 6 machines over a period of 10 years	Cumulative total at Sl. No.3 * 6 machines			3,60,00,000

Similarly, calculation will be done in the above pattern for Spare consumption cost for all the bidders based on the data provided by the bidders in the Section XI: Price Schedule.

3. CONDITION MONITORING (HEALTH CHECK-UP)

TABLE 4

ILLUSTRATION - Calculation for Health Check-up cost

Health checkup cost of Bidder P					
Sl. No	Year	First Heath Checkup – Tentatively at the end of Fourth year (Inclusive of GST)	Second Heath Checkup – Tentatively at the end of Seventh year (Inclusive of GST)	Third Heath Checkup – Tentatively at the end of Tenth year (Inclusive of GST)	Total
1	Amount per machine in Rs.	9,00,000	12,00,000	15,00,000	36,00,000
2	Health check-up cost in Rs. for 6 machines over a period of 10 years	Cumulative total at Sl. No.1 * 6 machines			2,16,00,000

Similarly, calculation will be done in the above pattern for all the bidders based on the data provided by the bidders in the Section XI: Price Schedule.

Total Operating cost of Maintenance Spares and Health check-up in Rs.

= Preventive maintenance spares cost + Breakdown maintenance spares cost + Health Check-up cost

= Grand total of Table 2, 3 & 4

= 4,43,33,292 + 3,60,00,000 + 2,16,00,000

= ₹ 10,19,33,292/-

TABLE 5 – SAVING TO INVESTMENT RATIO AND LIFE CYCLE COST CALCULATION

Sl. No	Parameter	Bidder P	Bidder Q	Bidder R
1.	Original Quoted Price (OQP) <u>as per Table D of Price schedule</u> (Investment cost) in Rs.			
2.	Initial status as per OQP	L1	L2	L3
3.	Incremental Investment cost (A) in Rs.	NA	Investment of cost L2 – Investment cost of L1	Investment of cost L3 – Investment cost of L1
4.	Operating cost of Power consumption for 6 machines including Auxiliaries along with Varnish unit and Overprint unit over a period of 10 years in Rs.			
5.	Operating cost of Maintenance of machine, for 6 machines over a period of 10 years in Rs. (preventive maintenance spares, breakdown maintenance spares and health checkup cost of numbering machine along with Optional units)			
6.	Total Operating Cost for 6 machines over a period of 10 years (Sl. No. 4+5) (Total Savings) in Rs.			
7.	Incremental Saving Cost (B) in Rs.	NA	Operating cost of L1- Operating cost of L2	Operating cost of L1- Operating cost of L3
8.	Saving to Investment Ratio (B/A) (Sl. No.7 / 3)	NA	Incremental Saving Cost (B) / Incremental Investment cost (A)	Incremental Saving Cost (B) / Incremental Investment cost (A)
9.	Life Cycle Cost (Sl. No. 1+6) in Rs.			
10.	Revised Status of bidders as per Life Cycle Cost at Sl. No. 9			

TABLE 6 - Example for calculation of SAVING TO INVESTMENT RATIO AND LIFE CYCLE COST

Sl. No	Parameter	Bidder P (A)	Bidder Q (B)	Bidder R (C)	Bidder S (D)
1.	Original Quoted Price (OQP) as per Table D of Price schedule (Investment cost) in Rs.	53,90,00,000	57,00,00,000	57,50,00,000	60,00,00,000
2.	Initial status as per OQP	L1	L2	L3	L4
3.	Incremental Investment cost (A) in Rs.	NA	3,10,00,000	3,60,00,000	6,10,00,000
		Not applicable being L1	Investment of cost Q - Investment cost of P (B1-A1)	Investment of cost R – Investment cost of P (C1-A1)	Investment of cost S – Investment cost of P (D1-A1)
4.	Operating cost of Power consumption for 6 machines including Auxiliaries along with Varnish unit and Overprint unit over a period of 10 years in Rs.	8,34,84,144	7,00,00,000	7,00,00,000	6,00,00,000
5.	Operating cost of Maintenance of machine, for 6 machines over a period of 10 years in Rs. (preventive maintenance spares, breakdown maintenance spares and health checkup cost of numbering machine along with Optional units)	10,19,33,292	6,00,00,000	7,50,00,000	9,00,00,000
6.	Total Operating Cost for 6 machines over a period of 10 years (Sl. No. 4+5) (Total Savings) in Rs.	18,54,17,436	13,00,00,000	14,50,00,000	15,00,00,000
7.	Incremental Saving Cost (B) in Rs.	NA	5,54,17,436	4,04,17,436	3,54,17,436
		Not applicable being L1	Operating cost of P-Operating cost of Q (A6-B6)	Operating cost of P- Operating cost of R (A6-C6)	Operating cost of P- Operating cost of S (A6-D6)
8.	Saving to Investment Ratio (B/A) (Sl. No. 7/ 3)	NA	1.79	1.12	0.58
9.	Life Cycle Cost (Sl. No. 1+6) in Rs.	72,44,17,436	70,00,00,000	72,00,00,000	75,00,00,000
10.	Revised Status of bidders as per Life Cycle Cost at Sl. No. 9	L3	L1	L2	Not considered for further evaluation

Note:

- In the above example, Bidder P, Q and R are considered for further evaluation to arrive at Life Cycle Cost and the contract will be awarded to Bidder Q.
- Since SIR ratio of Bidder S is less than one, the Bidder S has not been considered for further evaluation for arriving Life Cycle Cost.
- While the above illustration cites only four bidders for better understanding, similar principle will be followed in case of more bidders.

Availability of Spares

- It is compulsory that L1 Bidder should hold / store locally and support the presses the requirement of the spares as and when required for the smooth and continuous operation of the machines during the life cycle period. The bidder shall classify total quantity of breakdown spares under 80:20 ratio where 80% of the spares shall be supplied within 10 working days and remaining 20% of the breakdown spares shall be supplied within 2 months from the date of issue of Purchase Order. The breakdown spares shall be supplied within the above stipulated timeline. In case of non-supply / delayed supply of spares from the stipulated timeline, then compensation has to be paid by the successful bidder, as mentioned under clause 'C' of Life Cycle Cost - **"Spares - Calculation of compensation amount for Spares"**.
- The above setup will not be in any part of tendering cost calculation/consideration and bidders should mandatorily abide to the above said conditions.

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
3)	86 to 88	V	Special Conditions of Contract (SCC)

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

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

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

S. No	GCC Clause No.	Topic	SCC Provision
1.	8.2	Packing and Marking	No change
2.	9.1	Inspection and Quality Control	Cost involved in the Inspection of Goods will be borne by the supplier. BRBNMPL shall bear cost of travel, boarding and lodging costs incurred in connection with the pre-shipment inspection. Bidder shall make necessary arrangements for the local transport during the visit of the team to bidder premises.
3.	9.3	Inspection and quality control	In case of rejection during pre-shipment inspection, an additional 90 days shall be provided for re-inspection without prejudice to the contract obligations and LD.
4.	11.2	Transportation of Domestic Goods	No change
5.	12.2	Insurance	Insurance from supplier's end till each site shall be done by the supplier (please refer Section :XI – Price Schedule for more details).
6.	14.1	Incidental Services	No change
7.	15	Distribution of Dispatch Documents for clearance / Receipt of Goods	No change. However, the documents as mentioned under clause 15.3 should immediately be supplied to BRBNMPL by e-mail for processing. Further, if the delayed

S. No	GCC Clause No.	Topic	SCC Provision
			dispatch of documents should result in demurrages, the penalty, etc. shall have to borne by successful bidder.
8.	16.2	Warranty Clause	Twelve months (1 Year) from the date of FAC, at respective site, for each Numbering Machine.
9.	16.4	Warranty Clause	No change
10.	19.3	Option Clause	Not Applicable
11.	20.1	Price Adjustment Clause	No Change
12.	21.2	Taxes and Duties	<p>In case of Foreign Bidders Customs duties shall be paid by purchaser. All statutory taxes (TDS) shall be deducted from the payments of the supplier/contractor on installation, erection, commissioning, testing, training, etc., as applicable under Indian Tax Laws.</p> <p>The present rate of GST is 18%. The bidder needs to mention the GST rate considered in their quotation (Any change in Statutory charges and taxes, as applicable & if clearly indicated in the quote will be paid on claim and submission of documentary proof). In case the rate of GST prevailing at the time of payment is less than the GST rate considered by the bidder, BRBNMPL will deduct the GST amount considered by the bidder even though BRBNMPL is required to pay less GST. However, in case at the time of payment, the actual GST rate is more than the rate considered by the bidder, the additional amount towards GST shall be borne by BRBNMPL.</p>

S. No	GCC Clause No.	Topic	SCC Provision
13.	22, 22.1, 22.2, 22.3, 22.4, 22.6, 22.8	Terms and Mode of Payments	<p>Clause 22.1 – Not applicable</p> <p>Clause 22.2 – Not applicable</p> <p>Clause 22.2.1 – Not applicable</p> <p>Clause 22.2.2 – Not applicable</p> <p>Clause 22.2.3 (a) – Not applicable</p> <p>Clause 22.2.3 (b) – No change</p> <p>Clause 22.3 (a) Not applicable</p> <p>Clause 22.3 (b)</p> <p><u>Applicable for Foreign Suppliers:</u></p> <p>80% of the price (on CIF basis) shall be paid through irrevocable Letter of Credit against shipment of material and submission of shipping documents. 20% of the balance amount shall be paid through Telegraphic Transfer after successful installation, commissioning, training and performance testing, completion of FAT and issue of FAC. Full payment pertaining to installation, commissioning, testing, training and performance testing shall be paid through Telegraphic Transfer after completion of FAT and issue of FAC subject to statutory deductions (TDS). Present TDS is at the rate 10%. However, prevailing TDS rate will be applicable at the time of payment.</p> <p>There is no change in remaining clause.</p> <p><u>Applicable for Indian Suppliers:</u></p> <p>80% of Material Cost on receipt and acceptance of goods by the consignee at destination and on production of all required documents by the supplier 20% of the balance amount (Material Cost) shall be paid after successful installation, commissioning, training & performance testing, completion of FAT and issue of FAC. Full payment pertaining to installation, commissioning, testing, training and performance testing</p>

S. No	GCC Clause No.	Topic	SCC Provision
			shall be paid only after completion of FAT and issue of FAC subject to statutory deductions. Clause 22.4 – No change Clause 22.6 – No change Clause 22.8 – Pre-shipment inspection certificate or Waiver Certificate
14.	24.1	Quantum of LD	No change. However, on account of any delay not attributable to supplier, the LD may not be applicable.
15.	25.1	Bank Guarantee and Insurance for Material loaned to Contractor	No change
16.	30.1	Governing Language	English only
17.	33.1	Resolution of Disputes	No change
18.	36, 36.3.2, 36.3.9	Disposal / Sale of Scrap by Tender	Not applicable
19.	31.1	Notices	Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by e-mail or by cable or telex or facsimile and confirmed in writing.
20.	30	Fall Clause	Fall clause is applicable to this tender.

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
4)	89 to 90	VI	List of Requirements

Schedule No.	Brief Description of Goods / Services	Quantity (with unit)	Earnest Money (₹)	Remarks
1.	Numbering Machines for Banknote printing	Total = 06 Nos. (03 Nos. for Salboni Press, 03 Nos. for Mysuru Press)	7.6 Crores*	

* The foreign bidders may submit the required EMD in international currency equivalent to INR 7.6 Crores. However, any shortfall due to exchange rate variation discovered on the day of opening of technical bid will have to be replenished mandatorily.

2. **Required Delivery Schedule:** The first machine should be dispatched (Ex-works) within 13 months from the date of issue of Letter of Intent (LOI). Dispatch of all the six machines (on Ex-works basis) should be completed within 33 months (after first machine, remaining machines with an interval of 4 months each). However, the actual timeline for the delivery of the machines will be finalized during award of LOI/Agreement. The supplier shall submit Transporter certificate for substantiating the claim of date of machine dispatch (Ex-works).

Sl. No.	Location	Quantity	*Tentative Month & Year
01	Salboni	01	August 2026
02	Mysore	01	December 2026
03	Salboni	01	April 2027
04	Mysore	01	August 2027
05	Salboni	01	December 2027
06	Mysore	01	April 2028

*The actual timeline for the delivery of the machines will be finalized during award of LOI /Agreement

Destination Port:

1. Chennai Seaport for BRBNMPL, Mysuru
2. Kolkata Seaport for BRBNMPL, Salboni

Installation, testing and commissioning for each machine shall start immediately on receipt of the machine/s at Stores of respective location. Each machine shall be installed, tested and commissioned and Final Acceptance Test (FAT) to be carried out by the vendor / supplier, and ensure issue of Final

Acceptance Certificate (FAC) by respective presses, within 90 working days[#] from date of receipt of item at respective site after which LD clause shall be applicable.

90 working days[#]

The 90 working days shall be counted as per the working days of respective BRBNMPL Presses, which shall start from the next date of receipt of machine at respective location or site readiness date, whichever is later.

If BRBNMPL procures optional equipment along with the numbering machine, the period for successful completion of FAT & issuance of FAC would include optional equipment as well.

For long holidays like Christmas, New Year, Golden week and Obon holidays, an extension for a period of maximum 3 weeks /21 days (all put together) may be given by BRBNMPL in one calendar year.

(Note: The dismantling of the old machine and clearing of site should be completed by the successful bidder before dispatch of new machine.)

3. Dismantling, Disassembly and Defacing offer of Existing Numbering Machines at Mysore and Salboni Presses:

- a) 03 nos. of Komori make (at Salboni Press) and 03 nos. of KBA make (at Mysore Press) Numbering machines (with attachments and auxiliaries) are to be Dismantled, Disassembled and Defaced.
- b) The dismantling, disassembly and defacing of the machines shall be sole responsibility of the successful bidder.
- c) The minimum time required for the complete dismantling of the existing machines has to be thoroughly assessed and intimated to BRBNMPL well in advance (min 15 days) so that the machine can be made available. It shall be responsibility of the Successful bidder to clear the site in all respects after dismantling, disassembly and defacing for the installation of the new machine.
- d) Numbering boxes, numbering wheels, numbering system, etc will be retained by BRBNMPL.
- e) The dismantling of the old machine and clearing of site should be completed by the successful bidder before dispatch of new machine. After dismantling and clearing the site, 45 days shall be required for the site preparation by BRB as per the layout diagram provided by the successful bidder.
- f) If there is any requirement to report to INTERPOL (International Crime police organization), it will be under the scope of the successful bidder.
- g) Dismantling and clearing the site should be completed within one month which is in the scope of successful bidder. The tools and equipment available at the Press may be spared to the successful bidder. However, additional equipment/tools to meet specific requirement shall be arranged by the successful bidder.
- h) The successful bidder may take assistance of the OEM for dismantling, disassembly and defacing the respective machine. However, BRBNMPL shall not bear any additional expenditure incurred on this account.

- i) Also, defacing, lifting (removing from BRB premises) and melting should be completed within the next 45 days.
- j) BRB will make necessary arrangements for the Civil work as per the layout diagram provided by the successful bidder.
- k) After dismantling and clearing the site, 45 days shall be required for the site preparation (Civil work) by BRB as per the Layout diagram provided by the successful bidder.

Broader SOP for dismantling, disassembly and defacing of the existing machines:

- (i) The procedure that will be adopted for dismantling and shifting shall be discussed with the successful bidder and the location where it will be stored before it is cut / defaced shall be finalized.
- (ii) One officer from BRBNMPL shall be assigned to monitor and co-ordinate the activities of dismantling / cutting / melting.
- (iii) Before start of work, it shall be ensured that the successful bidder has taken Accident Insurance Policy of adequate value for his employees to cover the full and all risks of accident including death and permanent disability.
- (iv) It shall be ensured that the successful bidder's employees are wearing appropriate clothing, use appropriate safety equipment, safety gears, follow safety norms and take safety precautions while dismantling the machine as well as cutting / grinding / defacing / loading on to the truck.
- (v) The number of personnel engaged, their qualification and the number of days taken for dismantling and cutting / defacing / shifting to foundry / melting shall be documented.
- (vi) The machines under replacement and sequence shall be identified by BRBNMPL and intimated to the successful bidder.
- (vii) Replacement of old machine shall be carried out as per the delivery schedule of new machine mentioned in the Contract.
- (viii) The successful bidder shall intimate BRBNMPL in advance about the dismantling schedule of earmarked machine.
- (ix) Removal of Salvageable parts, security material, Numbering System, Boxes, spares, consumables, etc. from the Machine shall be ensured by BRBNMPL before handing over. The detailed list of all non-reusable machine parts (Mechanical / Electrical) to be taken out from the section for scrapping (cutting / defacing) shall be prepared by BRBNMPL. Similarly, all non-reusable non-metallic parts like gaskets, PVC channels, electric panels, electric cables and other items shall also be taken out from the section for scrapping.
- (x) The Machine dismantling activity in the Press shall be recorded through CCTV.
- (xi) Once the machines are dismantled and removed from the sections, the virtual control of the dismantled machine shall transfer to Stores. Thereafter, scrapping / defacing activities will take place in a pre-designated area in the presence of a nominated Officer of BRBNMPL and Security Personnel. The activity area shall be under 24-hour surveillance by CCTV or by Security Personnel.

- (xii) All the non-reusable machine parts (Mechanical / Electrical / non-metallic) shall be cut into pieces / fragmented / grinded / defaced beyond reuse in the presence of nominated officer of BRBNMPL and Security Personnel before loading on to truck. The entire activity shall be recorded.
- (xiii) Loading on to the truck shall take place in the presence of the nominated Officer of BRBNMPL and representative of Security Personnel. The truck shall be weighed and the weight shall be recorded truck wise before it moves out of the press premises. The nominated BRBNMPL officer along with Security Personnel and Authorized representative of the successful bidder shall accompany the vehicle to the Foundry for melting.
- (xiv) All the scrapped **metallic** Machine parts shall be **melted** in the foundry in the presence of BRBNMPL officer, representatives of Security Personnel and the successful bidder.
- (xv) A '**Final Disposal Certificate**' signed jointly by BRBNMPL Officer and representatives of Security Personnel and the successful bidder shall be submitted to Unit Head after the completion of melting in the foundry.

4. **Scope of Supply:** Scope of Supply shall include besides the equipment offered, all the incidental services / accessories, considered necessary for supply installation and commissioning **and the Price quoted in price Bid for the equipment should be inclusive of such services /accessories. Cost break-up showing costs of all these incidental services / accessories included in the scope of supply must be indicated in the Financial Bid in Section XI: Price Schedule. No price details should be given or hinted here.** Accordingly mention here such services / accessories included in the scope of supply:

- a. Training - mention scope and extent (Both at Manufacturer site and Purchaser site). Training curriculum for operation and maintenance training shall be finalized in consultation with the successful bidder.
- b. Any other incidental service (and their scope and extent)
- c. Additional software and/or accessories etc
- The machine, equipment, incidental services/accessories and other auxiliaries under scope of supply shall be of the best quality and workmanship according to the latest engineering practice at the time of placement of order and shall be manufactured from materials of best quality or highest class considering strength and durability for their best performance. All materials shall be of the latest technology and its end of life should be at least 10 yrs.

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
5)	91 to 105	VII	Technical Specifications

Numbering Machine for Banknote Printing

1. Brief Description
2. Essential Machine Parameters and General Specifications
3. Modules
 - 3.1 Feeder and Register Unit
 - 3.2 Numbering/Printing and Inking Unit/s
 - 3.3 Numbering system with Number verification
 - 3.4 Online Number Quality Inspection System
 - 3.5 Delivery Unit
 - 3.6 System for monitoring Production and Maintenance data
 - 3.7 Remote Ink Controlling system
 - 3.8 Thermoregulation unit: The Thermoregulation unit should be complete in all respects including closed loop refrigeration circuit
 - 3.9 Online Varnish Coating with UV Curing Unit (Optional)
 - 3.10 Over-Print/Third Printing Unit (Optional)
4. Maintenance
5. Electrical and Electronic Control
6. Safety
7. Accessories per Machine
8. Auxiliary units
9. Documents Requirement
10. Dismantling, Disassembly and Defacing Offer of Existing Numbering Machines at Mysore and Salboni Presses
11. Size of the new numbering machine
12. Auto Cleaning Unit for Numbering Box Faces
13. Colour of the new numbering machine

A. Bidder shall specify the Numbering machine model (for Banknote printing) offered against the Tender Specification

1. BRIEF DESCRIPTION

Bharatiya Reserve Bank Note Mudran Pvt Ltd., (BRBNMPL) A wholly owned subsidiary of Reserve Bank of India (RBI) intends to procure 06 nos. of Numbering Machine, with optional Varnish unit and over-print/third print unit as per the details given below:

- 1.1. The high-speed automatic sheet fed rotary Letterpress Numbering machine, Number system having Number Verification along with online Quality checking System, Varnishing Unit (Optional), Over Print Unit (Optional) to be designed for the printing of variable data such as alpha numerals for printing Banknotes and other high security documents on one side of the sheet. (Machine design should be in such a way that optional units shall be retrofitted with ease, if procured by BRBNMPL, in future)
- 1.2. Automatic sheet fed numbering machine shall be suitable for numbering of Banknotes up to 60 Ups. The number sequences for any other security documents, if introduced in future, will be taken up with the successful bidder as and when required.
- 1.3. Numbering machine should be capable of printing a Maximum sheet size of 700mm X 820 mm.
- 1.4. The Numbering machine should be supplied with numbering system, Number Verification system and numbering boxes meeting the Indian banknote numbering specifications (Exploding font). All numbering boxes should have at least ten motorised numbering wheels. Numbering system and its verification system shall be suitable for computerized random numbering with the automatic wheel positioning numbering boxes.
- 1.5. Machine should be made with a robust bed, frame and supports in order to provide the necessary structure to withstand pressure while printing.
- 1.6. Machine counter: Shall have counters at feeder, all delivery piles, at machine control console and number of impressions at Numbering unit-1 and Numbering unit-2.
- 1.7. The numbering machine shall have retrofitment facility of varnish coating with UV drying system for both sides of the sheet.
- 1.8. The Numbering machine should employ a wide range of automation so as to minimize manual intervention.
- 1.9. At the end of the shift, production report should be generated for the shift production which should include rejected sheets, wrong numbered sheets, unnumbered sheets if any, at Number Verification System and Production Data Report. Reports can be printed through external printer.
- 1.10. Machine should have provision/facility to accommodate third party sensors as an additional equipment, if any, for enhancement of the machine performance.
- 1.11. Testing and commissioning of the entire system which shall include demonstration of completeness of the system as per BRBNMPL requirements.

2. ESSENTIAL MACHINE PARAMETERS AND GENERAL SPECIFICATIONS:

Essential Machine Parameters:

- 2.1. Maximum Production speed along with varnish and overprint application shall be at least 10000 SPH.
- 2.2. Numbering machine shall produce at least 63000 good quality numbered sheets in 9 hours shift operation.
- 2.3. Average Spoil percentage
 - 2.3.1. For Numbering machine - Average Spoil percentage resulting under the standard operating conditions shall be less than or equal to 0.05% of total sheets produced. The spoils generated due to malfunction of numbering machine and malfunction of numbering & verification system will be considered for the calculation of the spoil percentage.
 - 2.3.2. For Varnishing Coating with UV curing unit - Average spoil percentage shall be less than or equal to 1%.
 - 2.3.3. For Overprint Unit - Average spoil percentage shall be less than or equal to 0.2%.

Essential General Specifications:

- 2.4. Shall be suitable to handle all types of bank note substrates- 100% cotton furnish, Polymer, Hybrid, Durable Paper etc.
- 2.5. Machine should have the crawl speed facility for safe cleaning of the press.
- 2.6. Shall be suitable for maximum sheet size of 700 mm X 820 mm and minimum sheet size of 475mm X 600 mm
- 2.7. Shall be suitable for carrying out numbering on a substrate with a GSM ranging from 70 to 120
- 2.8. Shall be suitable for a maximum print area of 660 mm (Circumferential) X 800 mm (Lateral).
- 2.9. Gripper margin shall not exceed 15 to 25mm. During varnishing of lower denomination, the gripper margin should not exceed 13 to 15mm.
- 2.10. Noise Level should be less than 85 dBA at main working areas of the press during running of the machine at all speeds and with all accessories and ancillaries.
- 2.11. Suitable for production for at least 10 years in two shift operations without any overhauling. (The overhauling here is meant for the comprehensive machine overhauling other than the regular preventive, periodical and breakdown maintenances).
- 2.12. All the cylinders, Impression cylinders shall be protected to prevent fretting over the entire life of the press.
- 2.13. All components shall resist corrosion, erosion, etching and pitting when in contact with printing inks, cleaning solution(s) normally encountered during numbering operations.
- 2.14. The machine shall perform efficiently under following working conditions:
 - i. Available Electric power supply: 3 Phase AC, 50 Hz \pm 3%, 415 Volts \pm 10%.
 - ii. RH : 55% \pm 5%

iii. Temperature : $23^{\circ}\text{C} \pm 1.5^{\circ}\text{C}$

2.15. The Bidder should provide detailed technical specification along with Make and Model (MSDS as applicable) of all the consumables used at the machines and should be available in the Indian market. All the technical specifications and MSDS should be made available.

2.16. The requirement of compressed air in volume and pressure to be mentioned.

3. MAJOR MODULES:

3.1 Feeder & Register Unit

3.2 Numbering/Printing & Inking Unit/s

3.3 Numbering System with Number Verification

3.4 Online Number Quality Inspection System

3.5 Delivery Unit

3.6 System for Monitoring Production and Maintenance Data

3.7 Remote Ink Controlling System

3.8 Thermoregulation Unit: The Thermoregulation unit should be complete in all respects including closed loop refrigeration circuit

3.9 Online Varnish Coating with UV Curing Unit (Optional)

3.10 Over-Print/Third Printing Unit (Optional)

3.1. Feeder & Register Unit

3.1.1. Continuous non-stop sheet feeding system capable of running at maximum production speed of 10000 SPH and with a pile loading capacity of 12000 sheets

3.1.2. Shall have the facility for pre-piling device and auxiliary pile (preparatory pile/pre-piler/pre-loader).

3.1.3. Shall have the facility for elimination of static electricity.

3.1.4. Shall have pile side guide.

3.1.5. Shall be fitted with suitable sheet separation mechanism and blast nozzles to ensure continuous trouble free feeding.

3.1.6. Multiple lifting suckers adaptable for trouble free feeding of sticky, wavy sheets, marginally misaligned sheets.

3.1.7. Precision vacuum-based /conveyor belts/transfer cylinders transport system to ensure proper transfer

3.1.8. Automatic paper size adjustment

3.1.9. Sheet Control systems with sensors for uninterrupted production with following arrangement.

(i) Sheet Position monitoring system

(ii) Double sheet detection system for effective double sheet detection and control-ultrasonic/electronic and mechanical.

- (iii) Sheet Side lay device.
- (iv) Front lays
- (v) Transfer control mechanisms
- (vi) Colour sensor for differentiating trial paper and Banknote paper
- (vii) Inverted sheet detector
- (viii) Full sheet detection system before numbering.
- (ix) No print detection system
- (x) Overshoot detector
- (xi) Front edge corner fold detector.
- (xii) Fallen sheet detector.
- (xiii) Late Arrival detector.
- (xiv) Foreign particle detector.

3.2. **Numbering/Printing & Inking Unit/s**

The Printing Unit integrates full range of ergonomics and technical developments for printing with two station bank note numbering system both horizontal / vertical suitably with the latest of the technologies which allows easy access and handling and ensuring optimal registration.

Special care to be taken to optimize productivity and denomination changeovers with automatic mechanism.

- 3.2.1. The numbering machine shall have two numbering units to number at two places on a bank note. The machine should be equipped with Numbering boxes for printing 60 Ups (6 X 10 format) bank note along with counter weights.
- 3.2.2. The impression cylinder shall have suitable mechanism and easy accessibility for mounting of impression blankets and packing. Blanket tightening mechanism should be user friendly.
- 3.2.3. The press shall be equipped with an inking system for each numbering unit.
- 3.2.4. Each inking unit shall include modular type leak-proof ink fountain, unobstructed ink flow mechanism, proper ink film distribution by adapting varied diameter rubber rollers and finally uniform thin layer application on numbering boxes by forme rollers.
- 3.2.5. Each ink fountain should consist one ink agitator.
- 3.2.6. 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 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 flow of ink via individually adjustable control keys with remote controlled motorised ink keys for each ink duct units.
 - (iv) Each key shall be individually controllable from full open to close. At close, no ink film shall be transferred.

- (v) The inking unit should have the capability for intermittent ink transfer control mechanism
- (vi) Fountain cheeks / dam / separators shall not warp and shall be made out of replaceable leak tight, longwearing, non-scoring material (as per the requirement).
- (vii) Each fountain shall be equipped with pneumatic driven ink agitators to distribute and maintain the homogeneity of the ink in the fountain and prevent it from ink backing up in the fountain. The ink agitator shall agitate the ink over the full width of the fountain.
- (viii) Should have easy access for roller mounting, cleaning and inspection.
- (ix) Shall be equipped with suitable cleaning device to clean inking rollers after production.
- (x) Latest Ultrasonic bath should be provided to clean the Numbering boxes and wheels. The size of the ultrasonic bath should have capacity to freely dip at least 15 to 20 numbering boxes inside the cleaning solvent bath.

3.2.7. Inking unit shall consist of the following:

1. 2 ink fountains.
2. 2 duct rollers.
3. Inking rollers along with form rollers for appropriate transfer of ink.
4. 2 ink agitators.
5. Remote ink key control.
6. Inking roller cleaning device for both inking ducts.
7. Side seals Left & Right (2 sets) or as per the actual requirement.
8. Motorised nip pressure adjustment device should be provided along with machine.

3.3. **Numbering System with Number Verification**

- 3.3.1. Computerized numbering system with random numbering boxes along with accessories to enable random numbering on sheets up to 60 ups in each numbering station.
- 3.3.2. Shall be capable to number up to two panels in the same side of the banknote. The numbering system shall be capable to number all Indian currency/banknotes Re1/-, Rs.5/- (one numbering panel), Rs.10/-, Rs.20/-, Rs.50/-, Rs.100/-, Rs. 200/- Rs.500/- (up to two numbering panel) and any other denominations as per requirement.
- 3.3.3. The numbering system shall have the capability to randomly (motorized) change numbers for at least 10 wheels in the numbering box.
- 3.3.4. The system shall generate the initial numbering layout for the first start up sheet for each job.
- 3.3.5. The system shall detect wrong positions of prefix and suffix during setup and faulty switching at printing process and shall identify before numbering to avoid wrong numbering and shall display on the monitor and machine to be stopped for wrong printing. (The suffix here means the numerical number panel).
- 3.3.6. The system shall synchronize the operation of both the numbering shafts and shall prevent any wrong numbering.
- 3.3.7. The system shall check mismatch of serial numbers in the same bank note. The system shall

check for mismatch for both the prefix and the serial numbers and shall stop the machine when a mismatch is found and alert the operator in such a condition.

3.3.8. The system shall check numbering sequence while production either descending or ascending order according to the preset numbering pattern; Any deviation from the above, shall be alerted to the operator and the system shall stop the machine.

3.3.9. System shall communicate numbering errors with monitoring system for records.

3.3.10. Numbering sequences/patterns should be developed in consultation with BRBNMPL.

3.3.11. Provision of Pre-inking for initial and intermittent.

3.3.12. The numbering system shall have offline numbering box testing device.

3.3.13. Numbering Control System panel should be a touchscreen

The above requirements are indicative only. The bidder should ensure to provide fool proof system of numbering along with the machine.

3.4. **Online Number Quality Inspection System**

3.4.1. The numbering machine shall have 100% online number inspection system for checking and verification of numbering accuracy and print quality of both the serial numbers.

3.4.2. With regard to inspection system, the following parts shall be included along with the inspection system:

- a. the hood or equivalent (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 etc
- d. All the signals shall be compatible for interfacing with machine PLC's.
- e. All other components such as Camera, Flash light, Frame grabber for acquisition, Integration with Numbering machine electronics along with installation, commissioning, testing, training to be quoted.

3.4.3. **General Requirements of Online Number Inspection System:**

3.4.3.1. The system shall be suitable for checking number print quality at a machine speed of 10,000 printed sheets per hour. Online Inspection shall be synchronized with the running speed of the machine.

3.4.3.2. The system shall be suitable for a maximum sheet size of 700 X 820 mm and maximum print size of 665 X 800 mm with 15 / 25 mm gripper margin.

3.4.3.3. The system shall be suitable for up to 60 printing ups notes on each printed sheet.

3.4.3.4. The system shall be suitable for checking print quality of serial numbers consisting of 10 alphanumeric characters with a panel length of approximate 42 mm.

3.4.3.5. The system shall be suitable for checking number print quality of banknotes in two panel printing on each banknote.

3.4.3.6. System shall ensure that the background printing (with or without inset letter) over which serial numbering is done shall not have any impact on the quality of inspection of serial

numbers.

- 3.4.3.7. The system shall have a resolution of at least 300 DPI or 0.1 mm/pixels. The alphanumeric serial number inspection camera to be used shall be of latest version.
- 3.4.3.8. The system shall be capable to stop the printing machine with user defined conditions.
- 3.4.3.9. The system shall be protected against power failure and voltage fluctuations. In case of power failure the power backup required by the system should be for 20 minutes.
- 3.4.3.10. The system shall have an alarm to alert the operator when a sheet is classified defective without machine stoppage (provision for setting alarm/machine stoppage to be given).
- 3.4.3.11. The system shall check number print quality of serial numbers during printing.
- 3.4.3.12. The system shall check for tear or missing paper on serial number printed regions.
- 3.4.3.13. The system shall check registration of the serial numbers w.r.t reference mark.
- 3.4.3.14. The system shall check registration of the serial numbers in vertical and horizontal direction.
- 3.4.3.15. The system shall check for smudging and smearing of the serial numbers.
- 3.4.3.16. The system shall check serial number for light ink, insufficient printing.
- 3.4.3.17. The system shall check mismatch of serial numbers in the same bank note. The system shall check for mismatch for both the prefix and the serial numbers and, shall stop the machine when a mismatch is found and alert the operator in such a condition.
- 3.4.3.18. The system shall check numbering sequence while production either descending or ascending order according to the preset numbering pattern; Any deviation from the above, shall be alerted to the operator and the system shall stop the machine.
- 3.4.3.19. Unless already detected by any other device fitted to the numbering machine:
 - i. The system shall check if the sheet has been fed with the back face of the sheet in the top orientation and shall classify such sheet as defective.
 - ii. The system shall detect and reject mis-oriented sheets with serial numbers printed out of tolerable registration limits.
 - iii. The system shall detect folded sheets, corner folds and also detect and reject if the printed region falls in the folded corner.”
- 3.4.3.20. The system shall detect mis-alignment in numbering and shall stop the printing machine when the misalignment is observed continuously for 10 sheets.
- 3.4.3.21. System shall be suitable for any type of numbering pattern i.e., uniform sized digits in all number positions or Ascending or Descending numbering (exploding numbering pattern) of varying dimensions in different digit positions, horizontal & vertical numbering etc.
- 3.4.3.22. The system shall be compatible for inspecting star numbered sheets.
- 3.4.3.23. The system shall compare the numbering Run chart details with the actual numbering of watermark sheet and stop the machine if sheet is getting printed with the wrong run chart or if a wrong run chart is entered by the operator in the Inspection system. The Run chart

check should be robust and must check both the prefix part and the serial number part (Real time number verification).

- 3.4.3.24. Trouble shooting guide for hardware and software with possible remedies for both operatives and service personnel.
- 3.4.3.25. The system shall count only production sheets but not trial sheets in the production counter.
- 3.4.3.26. The system shall provide a sheet report and note report providing the serial numbers of defective notes.
- 3.4.3.27. The system shall provide Manual review facility for the numbers printed on sheets.
- 3.4.3.28. The system shall have the provision for adjusting various parameters of serial number printing.
- 3.4.3.29. The system shall provide a shift report providing the number of sheets inspected, numbers of sheets classified as defects and number of trial sheets inspected by the system. The report should highlight the position of defective note in the sheet.
- 3.4.3.30. The system shall be easy to maintain. The changeover of the system during change of denomination shall take very minimal time.
- 3.4.3.31. The system shall be easy to operate without affecting production with a facility to run the machine in normal mode with inspection system shut off.
- 3.4.3.32. The system shall stop the machine when the particular run is complete and an error popup would appear if the machine prints sheets exceeding the run limit.
- 3.4.3.33. Different run schemes should be provided and each run scheme shall be possible to be saved in a different profile. It should also be possible to create new Run schemes for different ups easily without involving much system downtime.
- 3.4.3.34. The system shall contain a failsafe mechanism which should stop the machine if there is an error with the system Software/Hardware and shall have the data logging facility for at least 15 days.
- 3.4.3.35. The system shall have common console desk containing monitors to indicate the status of inspection and should have interface with touch screen in Numbering machine.
- 3.4.3.36. The system User Interface (UI) shall display and store the details of sheets inspected, sheets accepted and sheets rejected due to quality flaws and also serial numbers of rejected notes with respect to the working shift.
- 3.4.3.37. The system UI shall print the details of sheets inspected, sheets accepted, sheets rejected and serial numbers of rejected notes when required by the user with respect to the working shift. It should be possible to print reports for each parcel or each pile.
- 3.4.3.38. The system UI shall display detailed statistics of rejected notes with their serial number and reason for rejection for each working shift.
- 3.4.3.39. The system UI shall display failure alarms.
- 3.4.3.40. The system UI shall have facility to save different Runs under different profiles which can be renamed as required. The requirements, if any, will be explained in detail by users during installation of the system.

- 3.4.3.41. Title of the current running denomination/set of prefixes and number of sheets To complete run needs to be displayed.
- 3.4.3.42. Faults encountered leading to stoppage of the machine shall be displayed with fault description and location, and for each fault code corrective action shall be displayed by the system.
- 3.4.3.43. The history of errors and activity encountered by the system shall be logged.
- 3.4.3.44. The system to have provision to transfer the inspection details along with the defective note positions in offline mode like CDs, USB ports etc. The inspection details should be exported to external media and recalled on need basis for review within inspection system environment. However, the online inspection data (numerical data) should be transferred to the centralised computer along with the machine production data.
- 3.4.3.45. Service support should be provided for next 10 years by OEM.
- 3.4.3.46. System and software used shall be of latest version of PC based. Commonly available PC and peripherals are to be used. Software License should be Perpetual
- 3.4.3.47. Inspection data storage should have minimum 1TB.
- 3.4.3.48. The data should be stored as per the machine crew settings/ or day and shift wise.

3.5. **Delivery Unit**

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

- 3.5.1. Shall have minimum two pile for regular delivery and one sampling tray for test sheet/reject delivery.
- 3.5.2. Regular delivery pile shall have sufficient space to contain 10000 sheets in each pile.
- 3.5.3. The pile delivery system shall permit continuous piling by changing the pile from one to the other automatically according to the number of sheets required on each pile, which has been preset on the counter. Unnumbered sheets shall be delivered onto the sampling/reject tray when a signal of rejection is received from inspection system.
- 3.5.4. Shall have air ducts, suction wheels, static eliminators and sheet joggers to ensure proper delivery and alignment of sheets.
- 3.5.5. Shall have corner fold and torn sheet detection and monitoring system.

3.6. **System for Monitoring Production and Maintenance Data**

- 3.6.1. Production and machine maintenance data should be collected by a central data collection system.
- 3.6.2. All relevant data should be easily accessible on the press.
- 3.6.3. A system to collect & monitor relevant operation cycle information from the press and display

it in forms to assist the operators for more efficient production.

- 3.6.4. Shall have the facility to alert the user with the various maintenance and operational schedules such as preventive maintenance schedules, blanket change, numbering box change.
- 3.6.5. The system shall record the errors such as Motor overload, Abnormal state of oil, Actuation of Serious Defect Detectors etc., with the date and time of occurrence.
- 3.6.6. In the event of a malfunction of the press, the troubleshooting function shall provide its reason/solution on the display monitor.
- 3.6.7. The replacement cycle of Lubrication filter/oil, Hydraulic filter/oil Pump filter (feeder/delivery) shall be controlled and a warning signal shall be displayed when the item is due for replacement.
- 3.6.8. All the safety interlocks, safety covers, overloads, lubrications, hydraulics should be properly displayed in the controlling monitor and popped-up on occurrence.
- 3.6.9. Shall provide data logging facilities module-wise to enable the user to identify and analyse the reasons for stoppages and breakdowns.
- 3.6.10. Shall be compatible for interfacing with track- & trace facilities and at an offline central computer. If BRBNMPL intends to install track and trace system in future, the data should be available on an offline central computer.
- 3.6.11. All monitor should have touchscreen panels.
- 3.6.12. System should store all production data for long time in days and shift format. System should store all production related data for at least one year, in days and shift formats.
- 3.6.13. In case if the machine is integrated with ERP software all the required support shall be extended by the supplier. BRBNMPL is in the process of procurement of ERP system. Initially, the support for integration will be required till completion of FAT of the last numbering machine. In case, BRBNMPL intends to take supplier's support for further period, it will be discussed under mutual agreed terms. The data shall be provided in standard interface database format which may be readable in ERP package.

System shall comprise of the following hardware and software configuration.

3.6.14. Hardware:

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

3.6.15. Software:

- a) Shall have suitable security protection for start-up.
- b) System shall monitor the machine running state.
- c) List of all Operating System and licensed / customized programs/ software along with the license keys and back-up files to be provided along with each machine and if any antivirus as required.

All the licenses should be in the name of BRBNMPL.

- d) All System PC should be installed with latest version of antivirus.
- e) One spare laptop (individual machine) should be given for storing all PLC/ Drive data to recover all functions in future. The Spare laptop should contain concern software and antivirus with DVD writer. One spare laptop for each machine which can also be considered as service laptop. As external storage medium a pendrive will be used.

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

- a) Safety covers/guards
- b) Guard for the manual pre-turning handle
- c) Stop buttons
- d) Abnormal state of oil (lubrication oil, hydraulic oil)
- e) Motor overload

3.6.17. System shall monitor the machine running state.

- a) Software should detect the position of error occurred and be able to indicate probable solution within the error message description.
- b) 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. Portable hard disk to be provided along with the 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.
- c) System source should be in open platform to adapt SCADA/Track trace platform to watch machine performance independently from remote place.

3.6.18. **Production Management System:**

- a) The machine production state as follows shall be controlled and displayed on the monitor screen.
- b) Printing time on production sheets
- c) Printing time on test sheets
- d) Idle running time
- e) Stoppage time (can be categorized manually into the following items)
 - i. Printing preparation.
 - ii. Waiting time for materials
 - iii. Malfunctions of the machine
 - iv. Waiting time for other reasons
 - v. Emergency stop
 - vi. Stoppage by any accident
 - vii. Temperature indicators for various places of printing unit.

3.6.19. System shall be suitable for recording of the following items:

- a) Operation management number (job numbers, etc.)
- b) Number of sheets fed into the printing unit by the swing gripper mechanism. However, in case of any other mechanism / device incorporated in the machine, a detailed design is required to be submitted by the bidder.
- c) Number of impressions of the impression cylinder
- d) Number of sheets delivered to the first delivery pile
- e) Number of sheets delivered to the second delivery pile
- f) Number of sheets delivered to the sampling unit/test tray
- g) Number of sheets printed
- h) Number of test sheets used for printing adjustment

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

3.7. **Remote Ink Controlling System**

The inking system shall have remote control adjustment of inking keys, ink flow from fountain roller and intermittent ink flow to the rollers from fountain to distributor rollers. Automatic adjustment of ink fountain should be possible using remote control inking keys system.

3.8. **Thermoregulation Unit: The Thermoregulation unit should be complete in all respects including closed loop refrigeration circuit**

Press shall be equipped with a suitable thermoregulation system for inking and printing units as per the requirement.

3.9. **Online Varnish Coating with UV Curing Unit (Optional)**

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

3.9.1. The Varnish Coating unit shall consists of following modules:

- i. Latest Flexographic Printing unit consisting of Form cylinder for mounting flexographic plate, Anilox roller, Chambered blade system, Varnish supplying unit etc. The anilox roller suitable for coating Varnish thickness in the range of 2.0 to 3.0 microns each side.
- ii. Lateral and Circumferential Registration facility
- iii. Drying system compatible for UV curable varnish and shall have UV drying/ curing mechanism on each side of the sheet.
- iv. The system shall be equipped with suitable monitoring, reporting and corrective mechanism in regards with coated varnish. Offline monitoring with traditional weighing method is allowed as per machine design. Bidder may provide a suitable monitoring, reporting and corrective mechanism. If any devices / instruments required, the same should also be provided along with the varnishing unit.

- v. The varnishing unit should equip with initial UV curing facility for the incoming numbered sheets to cure numbering before proceeding for first side of varnish.

3.9.2. The robust exhaust system is a part of the Varnish Unit supplied, along with complete support material required to extract and deliver the fumes from the machine area to the exit of press building.

3.10. **Over-Print/Third Printing Unit (Optional)**

Third Printing is considered for printing special security features and/or for usage of machine readable inks. The third printing unit with plate cylinder to be used for flexographic printing to overprint elements such as dates, signatures on the same side as the numbering on units 1 and 2, in a single pass. It shall be supplied with One ink fountain as standard.

Printing size third printing unit:

With 15mm margin 675x800mm

The bearing arrangement and the gear drive of the plate cylinder should allow the remote adjustment of circumferential $\pm 1.5\text{mm}$ and lateral registration $\pm 1.5\text{mm}$ from the operator console.

4. **MAINTENANCE**

- 4.1. Assembly drawings with exploding views wherever necessary to facilitate dismantling and assembly during maintenance should be provided by the successful bidder. Declaration to this effect to be given by the bidder along with the technical bid.
- 4.2. List of spare parts with a proper consumption pattern and average life shall be furnished by the successful bidder. Declaration to this effect to be given by the bidder along with the technical bid.
- 4.3. International standards applicable for all mechanical, electrical and electronic items such as spare components, Lubrications, Sensors, PLC, Pneumatics and Hydraulics shall be provided by the successful bidder. Declaration to this effect to be given by the bidder along with the technical bid.
- 4.4. Side frames of the machines shall be provided with a transparent viewing area (if available, as per the machine design) wherein the user will be in a position to see the moving parts while the machine is running.
- 4.5. Spare parts list shall be classified as Fast wearing spares, General Spares and rarely use spare parts for Electrical and mechanical spares. BRBNMPL shall treat the following items as consumables: Lubrication oil, Grease, Solvent, Hydraulic oil, Cleaning solution.
- 4.6. Maintenance & service of the machine should be clearly mentioned as per the machine hour (machine hour means actual machine printing hours). The maintenance list should be related to the time period (Daily, weekly, monthly, yearly etc.).
- 4.7. Spare parts list shall be mentioning the spare parts makers details, If the spare makers are international items then the spare catalogue clearly shall mention the Indian supplement and authorized dealer details (wherever possible).
- 4.8. Following manuals 3 sets for each machine as well as in soft- copy (CD Pen drives etc.)
 - i. Electrical circuit diagram

- ii. PLC program sequence diagram (Source code being proprietary information, soft copy (pendrive) may be supplied)
- iii. Mechanical drawing with details of each component (Assembly drawings shall be made available in the spare parts catalogue, if separate mechanical drawings are not provided)
- iv. Operation manual
- v. Instruction manuals including for all set of procedure for setting / adjusting/ loading programs in Hardware (sensors, drives, controllers etc)
- vi. Trouble shooting for all machine errors along with remedial solutions. (Error codes with resolution shall be shown in the display. No hard copy may be provided)
- vii. Spares list Make and Model to be provided wherever possible. Quantity, Specification/rating, location used etc should be given.

4.9. Maintenance tool kit to be provided with each machine

4.10. Commissioning spares / consumables to be provided with each machine

4.11. All supplied machines should be identical in terms of Hardware and software programs and declaration to be given by supplier.

4.12. List of all Electrical, Mechanical and Electronics spare parts details such as Make, Model, Rating Specification, Quantity, Location etc 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. Successful bidder should submit along with LOI acceptance.

4.13. **Availability of Spares**

4.13.1. It is compulsory that L1 Bidder should hold / store locally and support the presses the requirement of the spares as and when required for the smooth and continuous operation of the machines during the life cycle period. The bidder shall classify total quantity of breakdown spares under 80:20 ratio where 80% of the spares shall be supplied within 10 working days and remaining 20% of the breakdown spares shall be supplied within 2 months from the date of issue of Purchase Order. The breakdown spares shall be supplied within the above stipulated timeline. In case of non-supply / delayed supply of spares from the stipulated timeline, then compensation has to be paid by the successful bidder, as mentioned under clause 'C' of Life Cycle Cost, Section III - SIT - **"Spares - Calculation of compensation amount for Spares"**.

4.13.2. The above setup will not be in any part of tendering cost calculation/consideration and bidders should mandatorily abide to the above said conditions.

5. ELECTRICAL AND ELECTRONICS CONTROL:

5.1. **Electrical control cabinets:** Machine operation shall be controlled electrically.

5.2. **Timing control:** The following timings shall be detected by suitable means by the machine.

- i. Numbering cylinder throw on/off
- ii. Form roller throw on/off
- iii. Actuation of the serious defect detector
- iv. Feeder on/off

- v. Front lay suspension
- vi. Delivery pile switching
- vii. Sheet counting
- viii. Feeder and delivery pump on/off
- ix. Online Inspection System
- x. Varnishing Unit (Optional)
- xi. UV drying

The above timing control is indicative only, as per the requirement for machine monitoring, supplier can add more controls.

5.3. Sequential programmed control for printing start-up:

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

5.4. Defect detectors:

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

5.5. Printing sheet quantity counter:

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

- i. Counting of sheets fed into the press by swing-arm grippers
- ii. Counting of sheets fed into first delivery pile
- iii. Counting of sheets fed into the second delivery pile.
- iv. Counting of test & reject sheets fed into the sampling pile (third delivery pile).
- v. Counting of “on-impression” passes of the impression cylinder.

5.6. UPS for Signal Lines

It shall provide back up for hydraulic valve control signals which throw off the impression cylinder in case of power failure. Also, the backup shall be capable to store the machine condition while power failure to enable easy resumption of machine operation after power restoration. All the machine console data and log details should be available. Machine restart should not be delayed after power resumption.

Make of the UPS should be generalized as per the international standard and the service would be available in the Indian market. In case the offered UPS is of manufacturer specific and its service is unavailable in India, then the required service shall be arranged by the successful bidder as and when required by BRBNMPL.

5.7. Fluorescent/LED lamps:

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

6. SAFETY:

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

- 6.1. **Safety Guards:** Mechanisms on both the drive and operation sides of the press shall be fully covered. Safety covers and safety switches shall be provided to protect the press operators and maintenance engineers from accidents resulting in stopping of the machine and activation of safety locks whenever necessary.
- 6.2. **Safety Monitors:** Motors, safety covers and guards etc. shall be protected by safety monitors against possible overload or the press being operated in an unsafe condition, to ensure the maximum safety for operator and machine parts at all times. The safety monitors shall indicate the operational status of safety devices, defect detection, and press operation inclusive of the following.
 - i. Safety interlocks of the stop buttons
 - ii. Actuation of the safety covers or safety bars
 - iii. Overload of the motors and auto tripping mechanisms
 - iv. Hydraulic or lubrication error

7. ACCESSORIES REQUIRED PER MACHINE:

- 7.1. Tool Kit (for operational staff) : 01 Set
- 7.2. Numbering Box Maintenance Tool Kit (for operational staff) : 02 Set s
- 7.3. Complete tool kit for machine maintenance activities : 01 Set
- 7.4. Feeder pile board: 05 Nos.
- 7.5. Delivery Boards : 10 Nos.
- 7.6. Two set sof Forks to support one pile for continuous feeding
- 7.7. One trolley for unloading piles from delivery for each machine ordered
- 7.8. Rubber Rollers – for each numbering unit of the machine 01 set of rubber rollers and two sets of extra forme rollers to be supplied additionally as spare rollers other than complete set mounted on the machine
- 7.9. Ink agitators – 2 Nos. spare excluding 2 Nos. fitted on the machine
- 7.10. Duct blades- 4 Nos. excluding 2 Nos. fitted on the machine
- 7.11. Ink Side seals- 12 pairs (six pairs for top station and six pairs for bottom station) excluding 2 pairs fitted on the machine (if side seal exists in the machine). If the ink fountain design does not have side seals in the machine offered, then the supply of spare side seals shall not be required.
- 7.12. Numbering Boxes with exploding font – 160 Nos. (wheels should be suitable for numbering of all denominations)
- 7.13. Wheels required: (Wheels in Numbering Box + Spare wheels)

Wheel position 1: (0-9) – 160+30

Wheel position 2: (0-9) – 160+30

Wheel position 3: (0-9) – 160+30

Wheel position 4: (0-9) – 160+30

Wheel position 5: (0-9) – 160+30

Wheel position 6: (0-9) – 160+30

Wheel position 7: (* and 1) – 160+30(both images are on the same wheel)

Wheel position 8 : (A-L) – 160+30

Wheel position 8 : (M-W) – 160+30

Wheel position 9 : (A-L) – 160+30

Wheel position 9: (M-W) – 160+30

Wheel position 9: (0-9) – 160+30

Wheel position 10: (0-9) – 160+30

7.14. 50 Nos. Impression Blankets with each machine.

7.15. 25 Nos. Digital Nyloprint plate for varnish coating (optional only in case of procurement of Varnishing unit)

7.16. Box to Ring cable – 250 Nos. (Excluding cable provided along with the box on the machine)

7.17. Ring Electronics – 20 Nos. (N1- 10Nos and N2- 10Nos)

7.18. Ring to Ring cables - 20 Nos.(N1- 10Nos and N2- 10Nos)

7.19. Box Mounting Ring – 16 Nos.(N1- 8Nos and N2- 8Nos)

7.20. Numbering box PCBs -30 Nos. (Excluding Box PCBs)

7.21. Numbering Box cover mounting screws-200 Nos (Screws not necessary if numbering box design does not require)

7.22. Numbering Box servomotors - 30 Nos (Excluding servomotors mounted on the machine)

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

8. AUXILIARIES REQUIRED PER MACHINE:

- a) All auxiliaries required for operation shall be supplied along with the machine.
- b) One Air compressor of suitable capacity should be supplied with the machine.
- c) One spare vacuum pump of suitable capacity.
- d) Offline numbering box make ready unit. The machine should have an option to conveniently position the offline make ready unit. The bidder shall supply two numbers of Offline numbering box make ready unit one each to Mysuru and Salboni Press along with the supply of first machine (i.e. for three machine one offline numbering box make ready unit).

9. DOCUMENTS REQUIREMENT:

- 9.1. The supplier will have to submit following documents each in 03 sets in English language.
- i. Operation manual of the machine (3 Sets of each manual) and two separates enlarge electrical drawing and error list set for fault rectification with firm binding.
 - 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. Bidder can provide fault-finding chart along with circuit diagram wherever possible. Also, on the console monitor, error display with location should be provided for error findings and diagnosis.
 - iv. Hydraulic and Pneumatic, cooling circulation and thermo circulation 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. Error messages shall be provided on the user friendly HMI of the machine.
 - 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.
- 9.2 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 from the DVD. Service PC/Laptop shall have latest licensed Antivirus for protection. All cables/connectors/ports required to connect laptop to machine should be provided.

10.Dismantling, Disassembly and Defacing offer of Existing Numbering Machines at Mysuru and Salboni Presses:

- 10.1. 03 nos. of Komori make (at Salboni Press) and 03 nos. of KBA make (at Mysore Press) Numbering machines (with attachments and auxiliaries) are to be Dismantled, Disassembled and Defaced.
- 10.2. The dismantling, disassembly and defacing of the machines shall be sole responsibility of the successful bidder.
- 10.3. The minimum time required for the complete dismantling of the existing machines has to be thoroughly assessed and intimated to BRBNMPL well in advance (min 15 days) so that the machine can be made available. It shall be responsibility of the Successful bidder to clear the site in all respects after dismantling, disassembly and defacing for the installation of the new machine.
- 10.4. Numbering boxes, numbering wheels, numbering system, etc will be retained by BRBNMPL.
- 10.5. The dismantling of the old machine and clearing of site should be completed by the successful bidder before dispatch of new machine. After dismantling and clearing the site, 45 days shall be required for the site preparation by BRB as per the layout diagram provided by the successful bidder.
- 10.6. If there is any requirement to report to INTERPOL (International Crime police organization), it will be under the scope of the successful bidder.

- 10.7. Dismantling and clearing the site should be completed within one month which is in the scope of successful bidder. The tools and equipment available at the Press may be spared to the successful bidder. However, additional equipment/tools to meet specific requirement shall be arranged by the successful bidder.
- 10.8. The successful bidder may take assistance of the OEM for dismantling, disassembly and defacing the respective machine. However, BRBNMPL shall not bear any additional expenditure incurred on this account.
- 10.9. Also, defacing, lifting (removing from BRB premises) and melting should be completed within the next 45 days.
- 10.10. BRB will make necessary arrangements for the Civil work as per the layout diagram provided by the successful bidder.
- 10.11. After dismantling and clearing the site, 45 days shall be required for the site preparation (Civil work) by BRB as per the Layout diagram provided by the successful bidder

Note :

Dismantling of machine can be started after consideration of following points by BRBNMPL

1. Removal of all Security items from the machine
2. Removal of all salvageable/reusable spare parts from the machine.
3. Removal of Hard disks of the machine and data storage of the machine

After the above activities, BRBNMPL will issue fit for dismantling certificate of machine. The bidder should dismantle the machine which includes machine parts, electrical panels, PVC channels Electrical cables and other auxiliary machine specific units and issue for scrapping as per laid down BRBNMPL procedure (broader SOP provided under Section VI).

Note: Dismantling, Disassembly and Defacing offer is compulsory

11. Size of the new numbering machine

The bidders should specify the size of their machine with and without optional units.

12. Auto Cleaning Unit for Numbering box faces

The Numbering machine shall be equipped with suitable Automatic Cleaning device for cleaning of Numbering box faces as a shift end cleaning process.

13. Colour of the new numbering machine

Standard color options available with the manufacturer shall be mentioned in the technical bid. The color of the machine to be supplied shall be decided by BRBNMPL and will be mentioned in the LoI / Agreement.

TRAINING & PRE-SHIPMENT INSPECTION

- 1) **Training:** At the discretion of purchaser, The bidder shall provide **Two weeks training for each machine supply** to our **05 operational personnel and 03 maintenance personnel** at their premises and also one week training for each machine supply during the installation and commissioning of the system at our

premises. Facilities at BRBNMPL training centre could also be utilized for this purpose. Cost of training at the bidders premises will be a scope of the bidder and BRBNMPL shall bear cost of travel, boarding and lodging costs incurred in connection with the training. Training curriculum & Schedule for operation and maintenance training at manufacturer's premises shall be finalized in consultation with the successful bidder. Training for operation, electrical, mechanical and electronics maintenance will be at same time in a single batch and training schedule shall be finalized in consultation with the successful bidder.

- 2) **Pre-shipment Inspection Authority:** At BRBNMPL's discretion, a team of BRBNMPL officers may conduct pre-shipment inspection of the machine/s at the designated premises of the successful bidder or issue inspection waiver certificate at its discretion. The bidder shall confirm its readiness to operate the system for such inspection and BRBNMPL if desires to inspect, shall dispatch the inspection team to manufacturer's site within thirty (30) days of receipt of such confirmation or intimate the waiver. BRBNMPL shall bear cost of travel for boarding and lodging costs incurred in connection with the pre-shipment inspection. Bidder shall make necessary arrangements for the local transport during the visit of the team. During pre-shipment inspection, all the technical documents are to be produced for clearance and acceptance by the BRBNMPL's inspection team. The norms to be followed during pre-shipment inspection will be finalized with the consultation of the bidder, which is to be followed scrupulously at the time of Pre-shipment inspection.

Important Note: Successful bidder shall demonstrate and achieve the performance guarantee values with regard to output and quality of the intermediate and finished products as shown in the FAT condition. The performance of the system as a whole on an integrated basis shall be demonstrated in a test run. Successful bidder shall supervise and direct the operation during the performance test, and shall take full responsibility in this regard. During the performance test BRBNMPL 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 BRBNMPL, the test periods will be extended accordingly at the discretion of BRBNMPL. Such time of interruptions for reduced performance and the production achieved during this period shall be discarded in evaluating the test. Interruption in the event of problem occurred for any reasons attributing to BRBNMPL, extension may be considered on the request of the successful bidder. 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 BRBNMPL, then this will be treated as a breach of agreement by successful bidder and BRBNMPL will be at liberty to decide the future course of action as BRBNMPL deemed fit.

Note: Tenderer's attention is drawn to GIT clause 17 and GIT sub-clause 10.1.

The Tenderer is to provide the required details, information, confirmations, etc accordingly, failing which its tender is liable to be ignored.

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
6)	106	VIII	Quality Control Requirements

FAT (Final Acceptance Test) and FAC (Final Acceptance Certificate):

FAT CONDITIONS – For Numbering Machine for Banknote printing

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. The FAT conditions will be with / without varnish as per BRBNMPL requirement. Broad parameters for FAT are as under:

1. Total Number of days - 25 working shifts
2. Number of shifts / day - one or two shifts (as agreed)
3. Duration of Shift - 9 hours = 540 Minutes
4. Make-ready in the beginning of the shift - (To be defined by the bidder)
5. Shift End Cleaning - (To be defined by the bidder)
6. Time required for prefix change - (To be defined by the bidder)
7. Other activity as required by the bidder - (To be defined by the bidder)
8. Total Mandatory Activity Time (TMAT) - Sl. Nos 4+5+6+7
9. Net production time (NPT) - **540 – TMAT**
10. Maximum Production Speed (MPS) - (To be defined by the bidder).
11. Minimum guaranteed Production - $(NPT \times MPS) \times 90\%$ sheets/shift
12. Wastage on total output (related to numbering system) - (To be specified by the bidder)
13. Numbering machine shall produce at least 63000 good quality numbered sheets in 9 hours shift operation.
14. Average Spoil percentage resulting under the standard operating conditions shall be less than or equal to 0.05% of total sheets produced. The spoils generated due to malfunction of numbering machine and malfunction of numbering & verification system will be considered for the calculation of the spoil percentage.

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. In addition bidder also will be required to prove that the system is suitable for running 60ups numbering. BRBNMPL can provide prevailing raw material used for regular banknote production. For test purposes prior to FAT, the successful bidder shall be provided with Blue Trial Paper (BTP) available with BRBNMPL.
- 2) Machine oriented stoppages consists 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”. (During the

FAT, the shift end data and the inspection result are being recorded in a format which should be signed by representative of the successful bidder which will be the supporting document for issue of FAC)

- 4) The functional capacities of various software and hardware performance has to be demonstrated to the BRBNMPL and to be proved that the same are working at optimum level.
- 5) 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 BRBNMPL.
- 6) All the spares and consumables required during FAT shall be brought by the supplier.
- 7) In normal circumstances, FAT will be performed on 1 shift per day basis. In case of requirement, two shifts FAT operation will be considered, as agreed by both BRBNMPL and the successful bidder at the discretion of BRBNMPL.

Issuance of FAC: Upon satisfactory completion of FAT and all contractual obligations BRBNMPL shall issue FAC (Final Acceptance certificate) for each system within one week.

FAT Parameters for Optional Units:

1. Varnishing Unit:

- (a) When Varnishing Unit is installed together with new numbering machine installation
 - FAT period and parameters will be same as mentioned for the Numbering machine above.
 - Average spoil percentage for the entire FAT period shall be less than or equal to 1%.
- (b) When Varnishing unit is retrofitted separately
 - The FAT duration shall be 12 Shifts.
 - All other parameters shall be similar to that of Numbering machine conditions.
 - Average spoil percentage for the entire FAT period shall be less than or equal to 1%.

2. Overprint Unit:

- (a) When Overprint Unit is installed together with new numbering machine installation
 - FAT period and parameters will be same as mentioned for the Numbering machine above.
 - Average spoil percentage for the entire FAT period shall be less than or equal to 0.2%.
- (b) When Overprint unit is retrofitted separately
 - The FAT duration shall be 12 Shifts.
 - All other parameters shall be similar to that of Numbering machine conditions.
 - Average spoil percentage for the entire FAT period shall be less than or equal to 0.2%.

3. In case, both Varnishing unit and Overprint unit are ordered along with Numbering machine, then average spoil percentage for the entire FAT period shall be less than or equal to 1%.

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
7)	107	IX	Qualification/Eligibility Criteria

The tenderer needs to agree to all essential conditions specifically incorporated in this tender enquiry. Some of the salient requirements are as under –

PRE-QUALIFYING ELIGIBILITY CRITERIA IS AS FOLLOWS –

Sl. No	Item Categories	ESSENTIAL PRE-QUALIFICATION CRITERIA FOR Design, Supply, Installation, Commissioning, Training and Performance Testing of SHEET FED NUMBERING MACHINE AND RELATED AUXILIARIES SYSTEMS at BRBNMPL, Mysuru and Salboni
1	Essential Qualification	<p>a) The Bidder (manufacturer or principal of authorised dealer/distributor/representative – hereinafter referred simply as ‘The Bidder’) should have regularly manufactured and supplied similar Plant and Machinery / equipment, and for at least the last three years, ending 31st March 2024,</p> <p>b) The Bidder should have manufactured and supplied (erected/ commissioned) at least two similar Plant and Machinery / equipment during last five years, ending 31st March 2024 to any Bank note printing industry.</p>
2	Experience & Past Performance	<p>The firm should have either manufactured or supplied and installed & commissioned at least two Similar SHEET FED NUMBERING MACHINE AND RELATED AUXILIARIES SYSTEMS for Bank Note Printing during the last Five years ending 31st March 2024. Further, in addition to above, the firm should submit a performance certificate for satisfactory running of the supplied system from the Bank Note Printing organisation wherein the above claimed system is supplied and installed. The bidder firm shall submit the credentials regarding experience and past performance to the extent required as per the eligibility criteria.</p> <p>All experience, past performance and capacity/capability related data should be certified by the authorized signatory of the bidder firm.</p> <p>The Indian manufacturer / supplier for SHEET FED NUMBERING MACHINE AND RELATED AUXILIARIES SYSTEMS for Bank Note Printing under Make in India scheme are exempted to provide any proof of supply to other countries/exports w.r.t. experience and past performance criteria, subject to meeting of essential qualification (point-1 above), quality and technical specifications in the Tender. However, As this tender is declared and considered as a critical security equipment (Security Printing Related). Relaxation to Startups [whether Micro & Small Enterprises (SMEs) or otherwise] is restricted.</p>

Important Note: considering the time required for preparation of financial statements, if the last date of preceding financial/accounting year falls within the preceding six months reckoned from the original bid closing date and the financial statements of the preceding financial year are not available with the bidder then the financial turnover of the previous three financial years excluding the preceding financial year will be considered. In such cases, the net worth / turnover of the previous financial year excluding the preceding financial year will be considered. However, the bidder has to submit an affidavit/undertaking certifying that the financial statements for the financial year____(as the case may be) has actually not been audited so far.

Requirements to be submitted along with the bids:

- (i) The bidders shall sign the Pre-Contract Integrity Pact as per the enclosed annexure.
- (ii) The intending bidders, have to submit complete solution on turnkey basis, for supply of Numbering Machine/s.
- (iii) The intending bidders shall submit all technical details, product catalogues, specifications etc of the proposed systems offered for evaluation.
- (iv) The bidder shall provide the complete details and address of the locations of the manufacturing units of main machine and all the auxiliary units.
- (v) The bidder shall provide details of supply of similar machines in the past including to neighboring countries of India.
- (vi) Bidder shall note that the purchaser reserves the right to visit the manufacturing facilities of the bidder and the facilities where the bidder has supplied the machinery for verifying the claims of the bidder. This will be a part of Technical Bid Evaluation.
- (vii) Product support, after sales support and infrastructure – Details may be provided
- (viii) The bidders should give a declaration that they have not been blacklisted or debarred for dealing by Government of India.
- (ix) The documents in support of qualification criteria need to be submitted along with the bid document duly signed by authorized representative of the applicant
- (x) The bidder should also confirm specifically that:
 - (a) Applicant is competent and legally authorized to submit and /or to enter into a legally binding contract.
 - (b) Applicant will absolve the purchaser against any infringement of patent right and other contract provision.
 - (c) BRBNMPL if desires, inspects the manufacturer's works of the bidder.
 - (d) Shall furnish a confidentiality statement.

General Terms - Summary

1. Bidder shall submit Earnest Money Deposit - As per GIT 18.
2. Bidders shall ensure that the price bids Section XI are submitted separately and not to be enclosed with technical bid.
3. Bidder shall ensure that no Price indication in the Technical Bid is made as the same shall be summarily

rejected.

4. Bidder shall comply with the Scope of work & Delivery Schedule – As per Section VI – List of Requirements.
5. The bidder shall submit duly signed pre-contract integrity pact as per the format enclosed in Section XX.
6. Bidder shall provide clause wise Technical compliance commentary for the technical specifications indicated in Section VII
7. The bidder shall ensure that all pages of tender document are numbered, duly signed and sealed for having read and understood all terms and conditions of the tender document.
8. Bidder shall confirm that the Tender validity is given as in the SIT.
9. **The supplier should understand and quote for Dismantling, Disassembly and Defacing offer. Dismantling, Disassembly and Defacing offer is compulsory.**
10. **If resultant L1 bidder after deriving Life Cycle Cost, is having higher machine foot print, the price discount will be applicable for the amount as illustrated in table 7(A) of Section III (SIT)**
11. Bidder shall submit the following declarations / undertakings along with tender application.
 - a. The signatory is competent and legally authorized to submit the tender and / or to enter into legally binding contract.
 - b. A declaration that the Bidder is not in the list of blacklisted /debarred firms of any Government Agency anywhere in the world.
 - c. Undertaking that the bidder is accepting all the terms and conditions of this tender and abides by it without any counter conditions.
 - d. Undertaking that the information given in the documents is correct and the Bidder is aware that any information provided is found to be false at a later stage BRBNMPL reserves the right to reject / disqualify the Bidder at any stage of the tendering process without assigning any reason.
 - e. A self-declaration that no agents are engaged or proposed to be engaged for participation in this tender.
 - f. The Company/firm/organization undertakes not to reveal the information in the tender documents to any third party.
 - g. The operation of the bidder in Pakistan or China, if any, should be suitably firewalled from the contract / operations with Government of India. Bidder shall also declare that no employee who has previously worked or been posted in Pakistan or China in any capacity will be engaged by the Company for this project and also the employees who will be working in this project will not be assigned to work in Pakistan or China.
 - h. Bidder shall note that, if there is any change in Board of Directors/Key personnel and in ultimate beneficial ownership of 10% and above. The bidder is therefore required to submit an undertaking that any such changes will be intimated without any delay to the Purchaser.
 - i. A duly signed and stamped confidentiality statement as given below is to be furnished: - “The information(s) contained in the tender document will not, in whole or in part be reproduced, transferred to other documents /electronic media or disclosed to others without written consent”.
 - j. **Non-Misuse Declaration:** The bidder is required to give an undertaking that he or his employees or legal heirs will ensure that such items purchased from BRBNMPL, will be utilized only for scrap recovery and will not be misused for any other purpose. He will also ensure that this undertaking is

honoured and it got underwritten from further down the line scrap processors/ re-purchasers, if any. In case his firm changes hands, it will be his responsibility to ensure that the new owners honour and underwrite this undertaking.

Confidentiality Statement

The information, which is contained in this document will not, in whole or in part be reproduced, transferred to other documents/electronic media or disclosed to others without written consent of BRBNMPL. Bidder shall also undertake to maintenance secrecy, exclusivity and confidentiality of the high security currency printing environment of BRBNMPL.

For and on behalf of M/s..... Yours
faithfully,

()

Seal

Name

Signature with date

Declaration

We confirm that that our firm has not been blacklisted / debarred by BRBNMPL / Government of India in the past 5 years ending as on date.

For and on behalf of M/s..... Yours
faithfully,

()

Seal

Name

Signature with date

Non-Misuse Declaration

As part of the bidding process, we or our employees or legal heirs will ensure that such items purchased on Buy-back offer from BRBNMPL, will be utilized only for scrap recovery and will not be misused for any other purpose. We will also ensure that this undertaking is honoured and it got underwritten from further down the line scrap processors/ re-purchasers, if any. In case his firm changes hands, it will be our responsibility to ensure that the new owners honour and underwrite this undertaking.

For and on behalf of M/s..... Yours

faithfully,

()

Seal

Name

Signature with date

Firewall Declaration

We hereby declare that operation of our firm in Pakistan or China, if any, are firewalled from the contract / operations with Government of India. We also declare that no employee who has previously worked or been posted in Pakistan or China in any capacity will be engaged by the Company for this project and also the employees who will be working in this project will not be assigned to work in Pakistan or China.

For and on behalf of M/s..... Yours

faithfully,

()

Seal

Name

Signature with date

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
8)	114 to 120	XI	Price Schedule

Schedule 1: Numbering Machines for banknote printing – Total Quantity – 06 Nos.

- Bidders may quote the prices in **Indian Rupees (INR)** or in any other **Foreign Currency**. In case if a bidder quotes in other foreign currency, such quoted prices of the responsive tenderer will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the B.C. selling exchange rates established by the State Bank of India for similar transactions, as on the date of price-bid opening for L1 determination. In case of any bank holiday, the previous day's closing price will be considered.
- Bidders quoting in **Foreign Currency** should mention the Currency in which they have quoted like Euro €, JPY ¥, GBP £, etc. The bidder shall indicate the prices for all items as per schedule in both figures and words clearly.

Table A) Price schedule for Design, Manufacturing, Testing, Supply, Installation, Commissioning, Training and Performance Testing of 06 Nos. of Numbering machines for Banknote Printing, Accessories & Auxiliary units to be installed (03 nos. at Salboni Press and 03 nos. at Mysuru Press).

Sl. No.	Description	HSN/SAC code	Units & Qty	Unit Rate (INR)	Total Price (INR)
1(a)	Numbering Machine for Banknote printing with Feeder & Register unit, Inking unit, Printing unit, Centralised Lubrication System, Delivery unit, Accessories and Auxiliaries as specified in Section VII		06 Nos		
1(b)	Numbering System with Number Verification		06 Nos		
1(c)	Online Number Quality Inspection System		06 Nos		
2.	FOB Price for Sl.No. 1 (a+b+c)		06 Nos		
3.	Freight* for Sl.No. 1		06 Nos		
4.	Insurance** for Sl.No. 1 (till each press)		06 Nos		
5.	Total CIF Price (Sl. No. 2+3+4)		06 Nos		
6.	Training charges*** at the Manufacturer Facility		06 Nos		
7.	Installation, commissioning, On-site Training, Performance Testing charges etc. (Inclusive of GST) ****		06 Nos		
8.	Total price (Sl.No 5+6+7)		06 Nos		
9.	Total Price (Sl. No. 8) in Words				

Note for Table A

*** Freight**

- Freight – 03 Nos. for Salboni (Kolkata Port) and 03 Nos. for Mysore (Chennai Port).

**** Insurance**

- The bidder should insure the goods for at least 110% of the contract value in case of CIF basis.
- Bidders shall arrange for transit insurance of all machineries/equipment from manufacturer's premises up to respective BRBNMPL (Mysuru/Salboni) premises.
- Insurance cost quoted by the bidders at Sl. No. 4 of Table A should cover transit insurance cost of all machineries /equipment shipped from manufacturer's premises up to respective BRBNMPL (Mysuru/Salboni) premises' unloading point.
- It is the responsibility of the bidder to ensure that all the machineries/equipment are packed appropriately so as to ensure the goods are received in good condition at respective BRBNMPL premises.
- Settlement of insurance claims, if any, till the unloading point at respective BRBNMPL (Mysuru/Salboni) premises shall be the responsibility of the bidder. If requested by the successful bidder, BRBNMPL shall provide necessary support with respect to insurance claim, if any.
- BRBNMPL shall be responsible for shipment handling at Indian port/s and movement of consignment from Indian port/s to BRBNMPL premises and unloading of consignment under the supervision of successful bidder.
- After unloading at respective BRBNMPL premises, the transit insurance arranged by the bidders shall cease to exist.
- BRBNMPL shall arrange for Storage-cum-Erection insurance at their premises after unloading.

GST

*** Inclusive of GST for Indian Bidders

**** The present rate of GST is 18%. **The bidder needs to mention the GST rate considered in their quotation.** In case the rate of GST prevailing at the time of payment is less than the GST rate considered by the bidder, BRBNMPL will deduct the GST amount considered by the bidder even though BRBNMPL is required to pay less GST. However, in case at the time of payment, the actual GST rate is more than the rate considered by the bidder, the additional amount towards GST shall be borne by BRBNMPL.

HSN / SAC

Harmonised System of Nomenclature/Service Accounting Code/Customs code

Table B) Price schedule for Optional Units / Equipment.

Sl No.	Description	HSN/SAC code	Units & Qty	Unit Rate (INR)	Total Price (INR)
1.	Online Varnishing Coating with UV curing unit (# optional)		06 Nos		
2.	Overprint Unit (# optional)		06 Nos		
3.	Total FOB Price (Sl.No. 1+2)		06 Nos		
4.	Freight* for Online Varnishing Coating with UV curing unit		06 Nos		
5.	Freight* for Overprint Unit		06 Nos		
6.	Total Freight Charges (Sl.No. 4+5)		06 Nos		
7.	Insurance** for Online Varnishing Coating with UV curing unit till each press		06 Nos		
8.	Insurance** for Overprint Unit till each press		06 Nos		
9.	Total Insurance** Charges (Sl.No. 7+8)		06 Nos		
10.	Total CIF Price (Sl. No. 3+6+9)		06 Nos		
11.	Installation, commissioning, On-site Training, Performance Testing charges etc. (Inclusive of GST)*** for Online Varnishing Coating with UV curing unit till each press		06 Nos		
12.	Installation, commissioning, On-site Training, Performance Testing charges etc. (Inclusive of GST)*** for Overprint Unit		06 Nos		
13.	Installation, commissioning, On-site Training, Performance Testing charges etc. (Inclusive of GST)*** of Optional units (Sl.No. 11+12)		06 Nos		
14.	Total price (Sl.No. 10+13)		06 Nos		
15.	Total Price (Sl. No. 14) in Words				

Note for Table B

Optional unit

The Online Varnishing Coating with UV curing unit and Overprint Unit are optional requirement and may be ordered by BRBNMPL at the later stage. The price quoted shall be firm and binding and valid for three years from the date of LOI/ till completion of the warranty period of the last machine of the contract, whichever is later.

*** Freight**

- Freight – 03 Nos. for Salboni (Kolkata Port) and 03 Nos. for Mysore (Chennai Port).

**** Insurance**

- The bidder should insure the goods for at least 110% of the contract value in case of CIF basis.
- Bidders shall arrange for transit insurance of all machineries/equipment from manufacturer's premises up to respective BRBNMPL (Mysuru/Salboni) premises.
- Insurance cost quoted by the bidders at Sl. No. 7 & 8 of Table B should cover transit insurance cost of all machineries /equipment shipped from manufacturer's premises up to respective BRBNMPL (Mysuru/Salboni) premises' unloading point.
- It is the responsibility of the bidder to ensure that all the machineries/equipment are packed appropriately so as to ensure the goods are received in good condition at respective BRBNMPL premises.
- Settlement of insurance claims, if any, till the unloading point at respective BRBNMPL (Mysuru/Salboni) premises shall be the responsibility of the bidder.
- BRBNMPL shall be responsible for shipment handling at Indian port/s and movement of consignment from Indian port/s to BRBNMPL premises and unloading of consignment under the supervision of successful bidder.
- After unloading at respective BRBNMPL premises, the transit insurance arranged by the bidders shall cease to exist.
- BRBNMPL shall arrange for Storage-cum-Erection insurance at their premises after unloading.

GST

*** The present rate of GST is 18%. **The bidder needs to mention the GST rate considered in their quotation.** In case the rate of GST prevailing at the time of payment is less than the GST rate considered by the bidder, BRBNMPL will deduct the GST amount considered by the bidder even though BRBNMPL is required to pay less GST. However, in case at the time of payment, the actual GST rate is more than the rate considered by the bidder, the additional amount towards GST shall be borne by BRBNMPL.

Table C) Price schedule for Dismantling, Disassembly and Defacing Offer:

Sl. No.	Description	HSN/SAC code	Units & Qty	Unit Rate (INR)	Total Price in (INR)
1.	Dismantling, Disassembly and Defacing Offer - Komori make M/c (Salboni) #		03 Nos		
2.	Dismantling, Disassembly and Defacing Offer - KBA make M/c (Mysore) #		03 Nos		
3.	Total (Sl. No. 1+2)		06 Nos		
4.	GST* on Sl. No. 3		06 Nos		
5.	Total Price (Sl.No. 3+4)				
6.	Total Price (Sl. No. 5) in Words				

Note for Table C

The bidders should quote the amount towards Dismantling, Disassembly and Defacing Offer considering the Scrap sale value to be recovered from the old machines as well.

*Applicable GST on Dismantling, Disassembly and Defacing offer will be borne by the successful bidder.

Additional Note: If a bidder anticipates the net cost / net revenue to BRBNMPL under the Dismantling, Disassembly and Defacing Offer, for the existing machines, the same may be reflected in **negative / positive terms** in the Table C.

Table D) Initial L1 determination (Original Quoted Price-OQP)

Bidders are not required to fill the following Table 'D' as it is given only for the purpose of Initial L1 determination by BRBNMPL

Sl No.	Description	Total Price (INR)
1.	Total CIF Price of the numbering machine (as per Table A at Sl. No.5)	
2.	Custom Duties @ 27.735% on Assessable Value of the numbering machine (Assessable Value = Total CIF + 1% of CIF value as landing charges) shall be borne by BRBNMPL	
3.	Training charges of the numbering machine at the Manufacturer Facility (as per Table A at Sl. No.6)	
4.	Installation, commissioning, On-site Training, Performance Testing charges etc. of the numbering machine (Inclusive of GST) (as per Table A at Sl. No.7)	
5.	Total CIF Price of Optional Units (as per Table B at Sl. No.10)	
6.	Custom Duties @ 27.735% on Assessable Value of the optional units (Assessable Value = Total CIF + 1% of CIF value as landing charges) shall be borne by BRBNMPL	
7.	Installation, commissioning, On-site Training, Performance Testing charges etc. of the optional units (Inclusive of GST) (as per Table B at Sl. No.13)	
8.	Local Transportation cost of all 06 machines (including shipment handling)* shall be borne by BRBNMPL	2,00,00,000
9.	Local Transportation cost of all optional units (including shipment handling)* shall be borne by BRBNMPL	50,00,000
10.	Dismantling, Disassembly and Defacing Offer (as per Table C at Sl. No. 5)	
11.	Final Value in Rs. = Sl. No.1+2+3+4+5+6+7+8+9 - 10	

Note for Table D

Bidders need not to fill Table D above as it is only for the purpose of Initial L1 determination by BRBNMPL. Calculation of duties and taxes (Customs Duty, GST etc) for Initial L1 determination will be based on prevailing rates as on the date of opening of Price bid.

*** Shipment handling**

BRBNMPL shall be responsible for shipment handling at Indian port/s and movement of consignment from Indian port/s to BRBNMPL premises and unloading of consignment under the supervision of successful bidder.

E) Price schedule for Numbering machine - Maintenance spares (Preventive maintenance spares) for entire life cycle i.e. 10 years (Prices to be quoted on CIF basis)

Sl. No.	Description	HSN/ SAC	Price of spares for the recommended quantity (INR)			Total Price (INR) D = B+C
			Price of recommended spares per machine = A	03 machines for Salboni B = A x 3	03 machines for Mysuru C = A x 3	
1.	Preventive Maintenance spares for 02 nd year					
2.	Preventive Maintenance spares for 03 rd year					
3.	Preventive Maintenance spares for 04 th year					
4.	Preventive Maintenance spares for 05 th year					
5.	Preventive Maintenance spares for 06 th year					
6.	Preventive Maintenance spares for 07 th year					
7.	Preventive Maintenance spares for 08 th year					
8.	Preventive Maintenance spares for 09 th year					
9.	Preventive Maintenance spares for 10 th year					
10.	Total Price of Preventive Maintenance spares for 06 machines for a period of 10 years (Sum of Sl. No. 1 to 9)					
11.	Total Price (Sl. No. 10) in words					

F) Price schedule for OPTIONAL UNITS (BOTH ONLINE VARNISHING COATING WITH UV CURING UNIT & OVERPRINT UNIT) Maintenance spares (Preventive maintenance spares) for entire life cycle i.e. 10 years (Prices to be quoted on CIF basis)

Sl. No.	Description	HSN/ SAC	Price of spares for the recommended quantity (INR)			Total Price (INR) D = B+C
			Price of recommended spares for optional units = A	Optional units for 03 m/c for Salboni B = A x 3	Optional units for 03 m/c for Mysuru C = A x 3	
1.	Preventive Maintenance spares for 02 nd year					
2.	Preventive Maintenance spares for 03 rd year					
3.	Preventive Maintenance spares for 04 th year					
4.	Preventive Maintenance spares for 05 th year					
5.	Preventive Maintenance spares for 06 th year					
6.	Preventive Maintenance spares for 07 th year					
7.	Preventive Maintenance spares for 08 th year					
8.	Preventive Maintenance spares for 09 th year					
9.	Preventive Maintenance spares for 10 th year					
10.	Total Price of Preventive Maintenance spares for 06 machine for a period of 10 years (Sum of Sl. No. 1 to 9)					
11.	Total Price (Sl. No. 10) in words					

Note for Table E & F – Preventive Maintenance Spares

- Price for Preventive Maintenance spares should be quoted on CIF basis. However, for calculation of Saving to Investment Ratio and Life Cycle Cost, the prevailing duties and taxes (Customs Duty, GST, etc) as on the date of opening of price bid will be applied by BRBNMPL.
- All the spare part prices quoted in the tender shall remain firm for a period of 10 (Ten) years from the date of FAC. The bidders have to submit the list of preventive spares required for 10 years (year wise) on CIF basis against the amount quoted in the price bid.
- Any increase in the preventive spares total value during any year of the contract period, shall be borne by the successful bidder.
- Bidders must quote all the electrical, electronics, mechanical, pneumatic parts, etc. fitted/used in the machine.
- The preventive spares cost for the optional units i.e. Online Varnishing Coating with UV curing unit & Overprint Unit shall be annexed separately as Table F1 & F2.

Table G) Price schedule for Numbering machine including numbering box and Numbering Verification System spares - Maintenance spares (Breakdown maintenance spares) for entire life cycle i.e. 10 years (Prices to be quoted on CIF basis)

Sl. No.	Description	HSN/ SAC	Price of spares for the recommended quantity (INR)			Total Price in (INR) D=B+C
			Price of recommended spares per machine = A	03 machines for Salboni B= A x3	03 machine for Mysuru C=A x 3	
1.	Breakdown Maintenance spares list for 2 nd to 4 th year					
2.	Breakdown Maintenance spares list for 05 th to 07 th year					
3.	Breakdown Maintenance spares list for 08 th to 10 th year					
4.	Total Price of Maintenance spares for 06 machine for a period of 10 years (Sl. No. 1+2+3)					
5.	Total Price (Sl. No. 4) in words					

Table H) Price schedule for OPTIONAL UNIT (BOTH ONLINE VARNISHING COATING WITH UV CURING UNIT & OVERPRINT UNIT) Maintenance spares (Breakdown maintenance spares) for entire life cycle i.e. 10 years (Prices to be quoted on CIF basis)

Sl. No.	Description	HSN/ SAC	Price of spares for the recommended quantity (INR)			Total Price in (INR) D=B+C
			Price of recommended spares for optional units = A	Optional units for 03 m/c for Salboni B= A x 3	Optional units for 03 m/c for Mysuru C=A x 3	
1.	Breakdown Maintenance spares list for 2 nd to 4 th year					
2.	Breakdown Maintenance spares list for 05 th to 07 th year					
3.	Breakdown Maintenance spares list for 08 th to 10 th year					
4.	Total Price of Maintenance spares for 06 machine for a period of 10 years (Sl. No. 1+2+3)					
5.	Total Price (Sl. No. 4) in words					

Note for Table G & H – Breakdown Maintenance Spares

- Price for Breakdown Maintenance spares should be quoted on CIF basis. However, for calculation of Saving to Investment Ratio and Life Cycle Cost, the prevailing duties and taxes (Customs Duty, GST, etc) as on the date of opening of price bid will be applied by BRBNMPL.
- The prices quoted towards the Breakdown Maintenance spares shall remain firm till Life Cycle of the machine / optional unit i.e. 10 years from the date of FAC of respective machine / optional unit
- Detailed breakup of the above Table G & H, each spare required for breakdown maintenance along with recommended quantity and its respective unit rate should be quoted separately for machine and optional units. The list of breakdown spares required should be quoted with delivery time on F.O.R. basis to General Stores, BRBNMPL, Mysuru / Salboni. The delivery time for each breakdown spares may be classified under delivery time of 10 working days (of BRBNMPL) / 2 months' time. The cost incurred by the successful bidder towards supply of breakdown spares on F.O.R basis like customs duty, GST, location transportation, insurance, etc shall be paid at actuals by BRBNMPL.
- Spares list provided by the successful bidder will be incorporated in the Contract agreement. In case any change against the specific item, the quoted price shall be maintained during entire Life Cycle.
- The breakdown spares cost for the optional units i.e. Online Varnishing Coating with UV curing unit & Overprint Unit shall be annexed separately as Table H1 & H2.

Table 'I' Price schedule for Condition Monitoring (Health Check-up) for entire life cycle for a period of 10 years

Sl No.	Description	HSN/ SAC	Price (INR)			Total Price INR D = B+C
			Price per machine = A	03 machines for Salboni B = A x 3	03 machines for Mysuru C = A x 3	
1.	First Health checkup - Tentatively at the end of fourth year (Inclusive of GST)					
2.	Second Health checkup - Tentatively at the end of seventh year (Inclusive of GST)					
3.	Third Health checkup - Tentatively at the end of Tenth year (Inclusive of GST)					
4.	Total Price of Health checkup for 06 machine for a period of 10 years (Sl. No. 1+2+3) (Inclusive of GST)					
5.	Total Price in words					

Note for Table 'I'

GST

*** The price quoted for Health Checkup shall be inclusive of GST. The present rate of GST is 18%. **The bidder needs to mention the GST rate considered in their quotation.** In case the rate of GST prevailing at the time of payment is less than the GST rate considered by the bidder, BRBNMPL will deduct the GST amount considered by the bidder even though BRBNMPL is required to pay less GST. However, in case at the time of payment, the actual GST rate is more than the rate considered by the bidder, the additional amount towards GST shall be borne by BRBNMPL.

TDS

Present TDS is at the rate 10%. However, prevailing TDS rate will be applicable at the time of payment.

GENERAL INSTRUCTIONS

1. The bidders shall indicate the prices for all items as per schedule in both figures and words clearly.
2. Initial L1 determination of Bids will be carried out based on the **Table D of Price Schedule**. The awarding of contract will be based on the Additional factors for Evaluation of Offers as explained in the **Note A under Section III: Special Instructions to Tenderers (SIT)**.
3. **Price quoted under Table E, F & G shall not be considered for initial L1 determination. However, it shall be used to calculate Saving to Investment Ratio and Life Cycle Cost.**
4. Applicable tax deduction at source will be made for installation, commissioning and training charges and a TDS certificate will be issued.
5. Price with condition(s) shall be liable to be rejected.
6. Price should be quoted as per the above format. However, components of the price quoted may be indicated separately.
7. Conditional discount/rebate etc shall not be considered. In case, discount is offered that should be adjusted in the price and net price should be quoted.
8. The prices quoted shall be firm and no escalation will be considered on the quoted price for any reason what so ever during the currency of the contract.
9. Other important contractual obligations:
 - The bidder is expected to supply with in the contract price - initial commissioning spares, oil & lubricants and consumables as may be required during erection, testing, start-up and initial operation of the unit till completion of successful commissioning (FAT) and commencement of regular production.
 - The bidder shall give a commitment that they shall provide technical support for the offered systems and accessories and make available required spares and consumables for a period of at least 10 years from the date of expiry of warranty.

Note: 1 For Foreign bidders

1. The GST as applicable at actuals will be deducted against the Installation, Testing, Commissioning invoice and paid to the Govt. by BRBNMPL for and on behalf of the vendor.
2. The following factors will be borne by BRBNMPL
 - (i) Customs duties as applicable.
 - (ii) Clearing and forwarding charges as applicable.
 - (iii) Local Transportation shall be arranged from port of discharge to the final destination.

Note 2 : Additional Note for Indian Supplier

In case if there are any Indian suppliers, they have to quote on FOR destination basis (Inclusive of GST@18% or as applicable) and for comparing the quote from foreign suppliers in CIF and Indian suppliers in FOR, following notional factors will be loaded while arriving at the total landing cost for quote in CIF.

1. Customs duties at 27.735% on assessable value will be added. (Assessable Value = CIF value + 1% of CIF value as landing charges).
2. Clearing and forwarding charges as per the following details will be added -
 - (i) Agency charges of 0.03% of CIF value + 18% GST (or as applicable) on agency charges will be added towards local agency charges.
 - (ii) Transportation charges of Rs.2,00,00,000 for all 06 machine will be added towards local transportation cost from port of discharge to final destination.

General Note:

- i) BRBNMPL does not pledge itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender or portion of the quantity tender or cancel the tender without assigning any reason what so ever.
- ii) BRBNMPL shall evaluate the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order.
- iii) **Quoted price should be in words and figures.** Any discrepancy between words and figures, the price in words shall prevail. Insertions, postscripts, additions and alterations shall not be recognized, unless authenticated by the tenderer's signature. In case of discrepancy between unit price and total price/cost, the unit rate will be considered for evaluation.
- iv) All decisions by BRBNMPL on the evaluation of bids will be final and binding on the Bidders and is not subject to any scrutiny
- v) Any effort by a bidder to influence BRBNMPL personnel or representatives on matters relative to the bid under study in the process of examination, clarification, evaluation and comparison of bids, and in decisions concerning award of contract may result in rejection of his bid.

Invoice

The successful bidder should raise the Invoice in the name of respective BRBNMPL Presses against the machine/ material supply.

Signature of Supplier with

Name of the Firm:

Date:

Place:

We confirm that there would not be any price escalation during the contract period. We also confirm that we will abide by all the tender terms and conditions bearing no --/CO/GT/NBG/2024-25 dated --st January 2025 for supply of 06 Nos. of Numbering Machines for banknote printing (03 nos. for Salboni Press and 03 nos. for Mysore Press) and we do not have any counter conditions.

(Authorised signatory with name and date) Office Seal/Stamp

Sl. No.	Ref Page number of Tender	Section No	Title of the Section
9)	123 & 124	XIII	Model Form of Bank Guarantee Bond for Bid Security (EMD)

1. In consideration of BHARATIYA RESERVE BANK NOTE MUDRAN PRIVATE LIMITED (hereinafter called 'BRBNMPL') having agreed to exempt ____ [hereinafter called 'the said Tenderer'] from the demand, under the terms and conditions of Tender No. _dated __for ____ (hereinafter called 'the said Tender'), of bid security (EMD) for the due fulfilment by the said Tenderer of the terms and conditions contained in the said Tender, on production of a bank Guarantee for ₹ _____(Rupees _____ Only), we, _____, (indicate the name of the bank) (hereinafter referred to as 'the Bank') at the request of __[Tenderer] _____against any claim by BRBNMPL by reason of any breach by the said Tenderer of any of the terms or conditions contained in the said Tender.
2. We, _____, (indicate the name of the bank) do hereby undertake to pay **within seven (7) business days** the amounts due and payable under this guarantee without any demur, merely on a demand from BRBNMPL stating that the amount claimed is due because of withdrawal of the tender by the said Tenderer or any material alteration to the tender carried out by the said Tenderer after its opening or because of failure to accept the Letter of Intent or Agreement by the said Tenderer or by reason of any other breach by the said Tenderer of the terms and conditions contained in the said Tender. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.
3. We undertake to pay to BRBNMPL any money so demanded notwithstanding any dispute or disputes raised by the said Tenderer in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the said Tenderer shall have no claim against us for making such payment.
4. We, _____, (indicate the name of bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the finalization of the said Tender and that it shall continue to be enforceable till the said Tender is finally decided and orders placed on the successful Tenderer and/or till all the dues of BRBNMPL under or by virtue of the said Tender have been fully paid and its claims satisfied or discharged or till BRBNMPL certifies that the terms and conditions of the said Tender have been fully and properly carried out by the said Tenderer and accordingly, discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the we shall be discharged from all liability under this guarantee thereafter.
5. We, _____, (indicate the name of bank) further agree with BRBNMPL that BRBNMPL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Tender or to extend the time of submission of the said Tender from time to time or to postpone for any time or from time to time any of the powers exercisable by BRBNMPL against the said Tenderer and to forbear or enforce any of the terms and conditions relating to the said Tender and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Tenderer or for any forbearance, act or omission on the part

of BRBNMPL or any indulgence by BRBNMPL to the said Tenderer or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Tenderer/Bidder.
7. We, _____, (indicate the name of bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of BRBNMPL in writing.

Banks may insert the following “Notwithstanding” Clause as per the standard given below

8. Notwithstanding anything contained herein:

- a) Our liability under this guarantee shall not exceed ₹ _____ (Rupees _____ Only);
- b) This bank guarantee shall be valid up to ____; (being the date of expiry of the guarantee)
- c) The Beneficiary’s right as well as the Bank’s liability under this guarantee shall stand extinguished unless a written claim or demand is made under this guarantee on or before _____ (being the date of expiry of claim period which in no case should be less than 1 year from the date of expiry of validity period of BG as per clause (b) above);
- d) **This Bank Guarantee must be returned to the bank upon expiry of claim period. If the Bank Guarantee in original is not received by the bank after expiry of claim period, subject to the terms and conditions contained herein, it shall be deemed to be automatically cancelled.**

9. Dated the ____ day of _____ (month) _____ (year)

For _____ (indicate the name of the Bank)

Bank Guarantees issued through SFMS platform:

BG can also be issued through IFN 760 COV Bank Guarantee Advice Message / IFN 767 COV Bank Guarantee Amendment Message to Advising Bank Branch (Beneficiary’s Bank Branch)

1. In that case, the BG issued by the issuing bank on behalf of Bidder / Supplier / Contractor in favour of “Bharatiya Reserve Bank Note Mudran Pvt Ltd” shall be in paper form and also shall be made available under the “Structured Financial Messaging System” (SFMS) (Ref: GoI, MoF letter F. No.7/112/2011-BOA dated 07.07.2012)
2. The Bidder / Supplier / Contractor shall ensure issuance of IFN 760 COV BG Advising Message by the issuing bank through SFMS platform in order to make the paper Bank Guarantee operative.
3. The issuing bank shall directly send the reference number of SFMS transmission message to BRBNMPL through Speed Post / Courier.
4. The details of beneficiary for issue of BG under SFMS platform is furnished below:

Name and address of Beneficiary : Bharatiya Reserve Bank Note Mudran Private Limited [To be filled by BRBNMPL]

Beneficiary Bank, Branch and Address : To be filled by BRBNMPL

IFSC Code : To be filled by BRBNMPL

SWIFT Code : To be filled by BRBNMPL

MICR Code : To be filled by BRBNMPL

5. The Bank Guarantee submitted shall also be subject to verification from the issuing bank, hence the email ID of bank must be incorporated in the BG.

ANNEXURE –1**CHECK LIST FOR BIDDERS (to be submitted along with part I - Technical bid)**

Sl.No.	Requirements / Name of the Bidder	M/s	Pg. No.
1.	Name of the Firm and complete Address		
2.	Is the bidder a manufacturer of Numbering machines for banknote printing		
3.	Tender fee submitted – Rs.10,000/-		
4.	EMD submitted for Rs.7.6 Crores or equivalent Foreign currency with validity up to _____ (225 days from the date of opening of Tender excluding claim period)		
5.	Tender form is submitted with duly signed and sealed.		
6.	Brief description and of goods and services offered		
7.	Permanent Income Tax A/ C No. as allotted by the Income Tax Authority of Government of India Please attach certified copy of your latest/ current Income Tax clearance certificate issued by the above authority.		
8.	Registered with the Directorate General of Supplies & Disposals (DGS&D), New Delhi, and/ or the National Small Industries Corporation (NSIC), New Delhi, and/ or the present BRBNMPL and/ or the Directorate of Industries of the concerned State Government for the goods quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit imposed on your registration. Please attach certified copy(s) of your registration status etc. in case your answer(s) to above query is in affirmative		
9.	Registered under the Indian Companies Act, 1956 or any other similar Act? Please attach certified copy(s) of your registration status etc. in case your answer(s) to above query is in affirmative		
10.	Name & full address of your Banker(s)		
11.	Please state whether business dealings with you currently stand suspended/ banned by any Ministry / Deptt. of Government of India or by any State Govt.		
12.	Letter of Authority for attending Bid Opening		

Sl.No.	Requirements / Name of the Bidder	M/s	Pg. No.
13.	Tender validity up to _____ (180 days from the date of opening of Tender)		
14. EXPERIENCE AND PAST PERFORMANCE	The firm should have manufactured, supplied, installed and commissioned at least two Numbering machine for banknote printing during the last five years.		
	The bidder firm shall submit the credentials regarding experience and past performance to the extent required as per the eligibility criteria.		
	In case of Indian Manufacturers the past performance and experience shall be relaxed at the discretion of the purchaser with appropriate justification.		
	All experience, past performance and capacity/capability related data should be certified by the authorized signatory of the bidder firm.		
15. Capability – Equipment & Manufacturing facilities	The Bidder must have an annual capacity to manufacture and supply (erect/commission) at least 03 (Three) of the offered quantity of Plant and Machinery / Equipment along with the related auxiliaries systems.		
16. FINANCIAL STANDING	Average Annual Turnover of the Bidder firm during last three years should be more than INR 114 Crores.		
	For Indian manufacturer, annual turnover criteria may be relaxed.		
	Similar relaxation may be extended to foreign bidders if they are willing to setup the manufacturing plant in India within two years time from the date of finalization of agreement. (if they fail, a suitable penalty clause may be incorporated)		
	The net worth of the firm should not have eroded by more than 30% in the last three years.		
	All the pages of financial standing data (including all extract of pages) should be certified by certified accountant's e.g. Chartered Accounts (CA) in India and		

Sl.No.	Requirements / Name of the Bidder	M/s	Pg. No.																								
	Certified Public Accountant / Chartered Accountants of other countries.																										
	The bidders to enclose certified audited balance sheets, financial statements, P/ L accounts and below mentioned details certified by CA/ CPA.																										
	<table><tr><th>Sl. No</th><th>Year</th><th>Annual Turnover</th><th>Profit/ Loss</th><th>Net worth</th><th>Remarks</th></tr><tr><td>1.</td><td>2021-22 or 2021</td><td></td><td></td><td></td><td></td></tr><tr><td>2.</td><td>2022-23 or 2022</td><td></td><td></td><td></td><td></td></tr><tr><td>3.</td><td>2023-24 or 2023</td><td></td><td></td><td></td><td></td></tr></table>	Sl. No	Year	Annual Turnover	Profit/ Loss	Net worth	Remarks	1.	2021-22 or 2021					2.	2022-23 or 2022					3.	2023-24 or 2023						
	Sl. No	Year	Annual Turnover	Profit/ Loss	Net worth	Remarks																					
	1.	2021-22 or 2021																									
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Signature of Certified Accountant: Name:																											
Name of Firm:																											
Reg. No of firm																											
Membership No.																											
Place																											
Date:																											
17. Preference to make in India	The provisions of the public procurement (preference to make in India) order 2017 dated June 15, 2017 by the department of Industrial Policy and promotion (DIPP).																										
18. OTHER INSTRUCTIONS	The Bidder is required to submit the “Pre contract Integrity Pact” duly filled and signed on all the pages.																										
	The intending bidders shall submit all technical details, product catalogues, specifications etc of the proposed systems offered for evaluation.																										
	The bidder shall provide the complete details and address of the locations of the manufacturing units of main machine and all the auxiliary units.																										
Sl.No.	Requirements / Name of the Bidder	M/s	Pg. No.																								

	The bidder shall provide details of supply of similar machines in the past including to neighboring countries of India.		
	Bidder shall note that the purchaser reserves the right to visit the manufacturing facilities of the bidder and the facilities where the bidder has supplied the machinery for verifying the claims of the bidder. This will be a part of Technical Bid Evaluation.		
	Product support, after sales support and infrastructure – Details may be provided		
	The bidders should give a declaration that they have not been blacklisted or debarred for dealing by Government of India.		
	The documents in support of pre-qualification criteria need to be submitted along with the bid document duly signed by authorized representative of the applicant.		
19. UNDERTAKINGS/ DECLARATION	Bidder should also confirm specifically that		
	a) The signatory is competent and legally authorized to submit the tender and / or to enter into legally binding contract.		
	b) Applicant will absolve the purchaser against any infringement of patent right and other contract provision.		
	c) BRBNMPL, if so desire, can inspect the manufacturer's works facilities.		
	d) Shall furnish a confidentiality statement		

Sl.No.	Requirements / Name of the Bidder	M/s	Pg. No.																												
	<p>Bidder shall comply with the Scope of work & Delivery Schedule – As per Section VI: List of Requirements.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Location</th><th>Quantity</th><th>Tentative delivery</th></tr> </thead> <tbody> <tr> <td>01</td><td>Salboni</td><td>01</td><td>August 2026</td></tr> <tr> <td>02</td><td>Mysore</td><td>01</td><td>December 2026</td></tr> <tr> <td>03</td><td>Salboni</td><td>01</td><td>April 2027</td></tr> <tr> <td>04</td><td>Mysore</td><td>01</td><td>August 2027</td></tr> <tr> <td>05</td><td>Salboni</td><td>01</td><td>December 2027</td></tr> <tr> <td>06</td><td>Mysore</td><td>01</td><td>April 2028</td></tr> </tbody> </table> <p>Declaration for adhering to the delivery schedule finalized during award of LOI to be submitted.</p>	Sl. No.	Location	Quantity	Tentative delivery	01	Salboni	01	August 2026	02	Mysore	01	December 2026	03	Salboni	01	April 2027	04	Mysore	01	August 2027	05	Salboni	01	December 2027	06	Mysore	01	April 2028		
Sl. No.	Location	Quantity	Tentative delivery																												
01	Salboni	01	August 2026																												
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04	Mysore	01	August 2027																												
05	Salboni	01	December 2027																												
06	Mysore	01	April 2028																												
	Bidder shall provide clause wise Technical compliance commentary for the technical specifications indicated in Section VII.																														
	The Online Varnishing Coating with UV curing unit and Overprint Unit is optional and may be ordered by BRBNMPL at the later stage. The price quoted shall be firm and binding and valid for three years from the date of LOI/ till completion of the warranty of the last machine of the contract whichever is higher.																														
	Bidder shall ensure that details as required in the tender pertaining to power consumption, list of preventive maintenance spares, numbering box and Numbering verification system spares health check-up etc. have been submitted along with the bid																														
	The bidder shall ensure that all pages of tender document are duly signed, numbered and sealed for having read and understood all terms and conditions of the tender document																														
	The supplier should understand and quote for Dismantling, Disassembly and Defacing which is compulsory. Declaration to this effect to be given by the bidder.																														
	Undertaking that the bidder is accepting all the terms and conditions of this tender and abides by it without any counter conditions.																														
	Undertaking that the information given in the documents is correct and the Bidder is aware that any information provided is found to be false at a later stage BRBNMPL reserves the right to reject / disqualify the Bidder at any stage of the tendering process without assigning any reason.																														
	A self-declaration that no agents are engaged or proposed to be engaged for participation in this tender.																														
	The Company/firm/organization undertakes not to reveal the information in the tender documents to any third party.																														

Sl.No.	Requirements / Name of the Bidder	M/s	Pg. No.
	The operation of the bidder in Pakistan or China, if any, should be suitably firewalled from the contract / operations with Government of India. Bidder shall also declare that no employee who has previously worked or been posted in Pakistan or China in any capacity will be engaged by the Company for this project.		
	Bidder shall note that, if there is any change in Board of Directors/Key personnel and in ultimate beneficial ownership of 10% and above. The bidder is therefore required to submit an undertaking that any such changes will be intimated without any delay to the Purchaser.		
	A duly signed and stamped confidentiality statement as given below is to be furnished: - “The information(s) contained in the tender document will not, in whole or in part be reproduced, transferred to other documents /electronic media or disclosed to others without written consent”		
	<u>Non-Misuse Declaration</u> The bidder is required to give an undertaking that he or his employees or legal heirs will ensure that such items purchased from BRBNMPL, will be utilized only for scrap recovery and will not be misused for any other purpose. He will also ensure that this undertaking is honoured and it got underwritten from further down the line scrap processors/ re-purchasers, if any. In case his firm changes hands, it will be his responsibility to ensure that the new owners honour and underwrite this undertaking.		
20. TECHNICAL BID	Whether Techno-commercial bid is kept in First sealed cover, superscribing “Part I - Technical Bid” containing following a. Required EMD amount, Technical Offer along with the cataglouge and brochure of the item along with the following annexures of this tender i.e <u>Section I to Section X and Section XII to Section XX and Annexure-I (Checklist)</u> . All the above mentioned documents should be signed and stamped and to be submitted as Technical Bid as acceptance of the terms and conditions and required formats to be maintained.		

Sl.No.	Requirements / Name of the Bidder	M/s	Pg. No.
21.PRICE BID	<p>a) Whether Price bid (Section XI: Price Schedule) is filled with detailed price break up/ tax applicable, for all the components of Table A, B, C, D, E, F, G, H and I signed and is kept in Second sealed cover superscribing “Part II - Price Bid”</p> <p>b) The detailed list of Maintenance spares (Preventive & Breakdown) along with recommended quantity and rate as per Price Schedule should also be submitted in the second sealed cover (for both machine and optional units).</p>		
22	Whether the above mentioned sealed covers (Part I & II) put in another big cover, sealed and superscribed as Offer for “ Design, Manufacturing, Testing, Supply, Installation, Commissioning, Training and Performance Testing of 06 Nos. of Numbering machines for banknote printing (03 nos. for Salboni Press and 03 nos. for Mysore Press) ”		

TECHNICAL COMPLIANCE COMMENTARY FOR THE TECHNICAL SPECIFICATIONS INDICATED IN SECTION VII

Sl. No.	Requirements / Name of the Bidder	M/s	Pg. No.
A	Numbering machine model (for Banknote printing) offered against the Tender Specification		
1.	BRIEF DESCRIPTION		
	1. The high-speed automatic sheet fed rotary Letterpress Numbering machine, Number system having Number Verification along with online Quality checking System, Varnishing Unit (Optional), Over Print Unit (Optional) to be designed for the printing of variable data such as alpha numerals for printing Banknotes and other high security documents on one side of the sheet. (Machine design should be in such a way that optional units shall be retrofitted with ease, if procured by BRBNMPL, in future)		
	2. Automatic sheet fed numbering machine shall be suitable for numbering of Banknotes up to 60 Ups. The number sequences for any other security documents, if introduced in future, will be taken up with the successful bidder as and when required.		
	3. Numbering machine should be capable of printing a Maximum sheet size of 700mm X 820 mm.		
	4. The Numbering machine should be supplied with numbering system, Number Verification system and numbering boxes meeting the Indian banknote numbering specifications (Exploding font). All numbering boxes should have at least ten motorised numbering wheels. Numbering		

	system and its verification system shall be suitable for computerized random numbering with the automatic wheel positioning numbering boxes.		
	5. Machine should be made with a robust bed, frame and supports in order to provide the necessary structure to withstand pressure while printing.		
	6. Machine counter: Shall have counters at feeder, all delivery piles, at machine control console and number of impressions at Numbering unit-1 and Numbering unit-2.		
	7. The numbering machine shall have retrofitment facility of varnish coating with UV drying system for both sides of the sheet		
	8. The Numbering machine should employ a wide range of automation so as to minimize manual intervention		
	9. At the end of the shift, production report should be generated for the shift production which should include rejected sheets, wrong numbered sheets, unnumbered sheets if any, at Number Verification System and Production Data Report. Reports can be printed through external printer		
	10. Machine should have provision/facility to accommodate third party sensors as an additional equipment, if any, for enhancement of the machine performance		
	11. Testing and commissioning of the entire system which shall include demonstration of completeness of the system as per BRBNMPL requirements		

2.	ESSENTIAL MACHINE PARAMETERS		
	1. Maximum Production speed along with varnish and overprint application shall be at least 10000 SPH		
	2. Numbering machine shall produce at least 63000 good quality numbered sheets in 9 hours shift operation.		
	3. Average Spoil percentage 3.1. For Numbering machine - Average Spoil percentage resulting under the standard operating conditions shall be less than or equal to 0.05% of total sheets produced. The spoils generated due to malfunction of numbering machine and malfunction of numbering & verification system will be considered for the calculation of the spoil percentage. 3.2. For Varnishing Coating with UV curing unit - Average spoil percentage shall be less than or equal to 1%. 3.3. For Overprint Unit - Average spoil percentage shall be less than or equal to 0.2%. 3.4. In case, both Varnishing unit and Overprint unit are ordered along with Numbering machine, then average spoil		

	percentage for the entire FAT period shall be less than or equal to 1%.		
	ESSENTIAL GENERAL SPECIFICATIONS		
	4. Shall be suitable to handle all types of bank note substrates- 100% cotton furnish, Polymer, Hybrid, Durable Paper etc		
	5. Machine should have the crawl speed facility for safe cleaning of the press		
	6. Shall be suitable for maximum sheet size of 700 mm X 820 mm and minimum sheet size of 475mm X 600 mm		
	7. Shall be suitable for carrying out numbering on a substrate with a GSM ranging from 70 to 120		
	8. Shall be suitable for a maximum print area of 660 mm (Circumferential) X 800 mm (Lateral)		
	9. Gripper margin shall not exceed 15 to 25mm. During varnishing of lower denomination, the gripper margin should not exceed 13 to 15mm		
	10.Noise Level should be less than 85 dBA at main working areas of the press during running of the machine at all speeds and with all accessories and ancillaries		
	11.Suitable for production for at least 10 years in two shift operations without any overhauling. (The overhauling here is meant for the comprehensive machine overhauling other than the regular preventive, periodical and breakdown maintenances)		
	12.All the cylinders, Impression cylinders shall be protected to prevent fretting over the entire life of the press		
	13.All components shall resist corrosion, erosion, etching and pitting when in contact with printing inks, cleaning solution(s) normally encountered during numbering operations		
	14.The machine shall perform efficiently under following working conditions: <ul style="list-style-type: none"> • Available Electric power supply: 3 Phase AC, 50 Hz \pm 3%, 415 Volts \pm 10%. • RH : 55% \pm5% • Temperature : 23°C \pm 1.5°C 		
	15. The Bidder should provide detailed technical specification along with Make and Model (MSDS as applicable) of all the consumables used at the machines and should be available in the Indian market. All the technical specifications and MSDS should be made available		
	16. The requirement of compressed air in volume and pressure to be mentioned		
3.	MODULES TO BE INCORPORATED IN THE OFFERED MACHINES:		
	1. Feeder & Register Unit		
	2. Numbering/Printing & Inking Unit/s		

	3. Numbering System with Number Verification		
	4. Online Number Quality Inspection System		
	5. Delivery Unit		
	6. System for Monitoring Production and Maintenance Data		
	7. Remote Ink Controlling System		
	8. Thermoregulation Unit		
	9. Online Varnish Coating with UV Curing Unit (Optional)		
	10. Over-Print/Third Printing Unit (Optional)		
4.	MAINTENANCE		
5.	ELECTRIC AND ELECTRONIC CONTROL:		
6.	SAFETY		
7.	ACCESSORIES REQUIRED PER MACHINE		
	<ul style="list-style-type: none"> a) Tool Kit (for operational staff) : 01 Set b) Numbering Box Maintenance Tool Kit (for operational staff) : 02 Sets c) Complete tool kit for machine maintenance activities : 01 Set d) Feeder pile board: 05 Nos. e) Delivery Boards : 10 Nos. f) Two sets of Forks to support one pile for continuous feeding g) Rubber Rollers – for each numbering unit of the machine 01 set of rubber rollers and two sets of extra forme rollers to be supplied additionally as spare rollers other than complete set mounted on the machine h) Ink agitators – 2 Nos. spare excluding 2 Nos. fitted on the machine i) Duct blades- 4 Nos. excluding 2 Nos. fitted on the machine j) Ink Side seals- 12 pairs (six pairs for top station and six pairs for bottom station) excluding 2 pairs fitted on the machine (if side seal exists in the machine). If the ink fountain design does not have side seals in the machine offered, then the supply of spare side seals shall not be required. k) Numbering Boxes with exploding font – 160 Nos. (wheels should be suitable for numbering of all denominations) l) Wheels required: (Wheels in Numbering Box + Spare wheels) <ul style="list-style-type: none"> Wheel position 1: (0-9) – 160+30 Wheel position 2: (0-9) – 160+30 Wheel position 3: (0-9) – 160+30 Wheel position 4: (0-9) – 160+30 Wheel position 5: (0-9) – 160+30 Wheel position 6: (0-9) – 160+30 Wheel position 7: (* and 1) – 160+30(both images are on the same wheel) Wheel position 8 : (A-L) – 160+30 		

	<p>Wheel position 8 : (M-W) – 160+30</p> <p>Wheel position 9 : (A-L) – 160+30</p> <p>Wheel position 9: (M-W) – 160+30</p> <p>Wheel position 9: (0-9) – 160+30</p> <p>Wheel position 10: (0-9) – 160+30</p> <p>m) 50 Nos. Impression Blankets with each machine.</p> <p>n) 25 Nos. Digital Nyloprint plate for varnish coating (optional only in case of procurement of Varnishing unit)</p> <p>o) Box to Ring cable–250 Nos.(Excluding cable provided along with the box on the machine)</p> <p>p) Ring Electronics – 20 Nos. (N1- 10Nos and N2- 10Nos)</p> <p>q) Ring to Ring cables - 20 Nos.(N1- 10Nos and N2- 10Nos)</p> <p>r) Box Mounting Ring – 16 Nos.(N1- 8Nos and N2- 8Nos)</p> <p>s) Numbering box PCBs -30 Nos. (Excluding Box PCBs)</p> <p>t) Numbering Box cover mounting screws-200 Nos (Screws not necessary if numbering box design does not require)</p> <p>u) Numbering Box servomotors- 30 Nos (Excluding servomotors mounted in the numbering box)</p> <p>v) The firm must provide all the required spares & consumables during installation & commissioning & until successful completion of FAT.</p>		
8.	<p>AUXILIARIES REQUIRED PER MACHINE:</p> <p>a) All auxiliaries required for operation shall be supplied along with the machine.</p> <p>b) One Air compressor of suitable capacity should be supplied with the machine.</p> <p>c) One spare vacuum pump of suitable capacity.</p> <p>d) Offline numbering box make ready unit. The machine should have an option to conveniently position the offline make ready unit. The bidder shall supply two numbers of Offline numbering box make ready unit one each to Mysuru and Salboni Press along with supply of first machine (i.e. for three machine one offline numbering box make ready unit).</p>		
9.	DOCUMENTS REQUIREMENT		
10.	DISMANTLING, DISASSEMBLY AND DEFACING OFFER OF EXISTING NUMBERING MACHINES AT MYSURU AND SALBONI PRESSES		
11.	SIZE OF THE NEW NUMBERING MACHINE		
12.	AUTO CLEANING UNIT FOR NUMBERING BOX FACES		
13.	COLOUR OF THE NEW NUMBERING MACHINE		
<p style="text-align: center;">Section III: Special Instructions to Tenderers (SIT)</p> <p>Note –A</p> <p>Sl. No. 18: Additional factors for Evaluation of Offers</p>			

1.	Projected / anticipated power consumption of per machine over a period of 10 years (To be filled by bidders) for numbering machine with all auxiliaries (except Varnishing unit and overprint unit) have been submitted along with the technical-bid		
2.	Projected / anticipated power consumption of per machine over a period of 10 years (To be filled by bidders) for numbering machine with all auxiliaries including Varnishing unit and overprint unit have been submitted along with the technical-bid		
3.	List of preventive & breakdown maintenance spares, numbering box and Numbering verification system spares, health checkup details in Table E, F, G, H & I have been submitted along with the price-bid (Section XI)		

PRE-BID MINUTES

Date: February 11 & 12, 2025

Tender No. 07/CO/GT/NBG/2024-25 dated 16th January 2025 for procurement of 06 nos. of Numbering machines for Banknote printing (03 nos. for Mysuru and 03 nos. for Salboni).

Pre-Bid Meeting for the captioned tender was held on February 11 & 12, 2025 at Board Room, Bharatiya Reserve Bank Note Mudran Private Limited (BRBNMPL), Corporate Office, Bengaluru. The meeting was conducted offline and few representatives of the interested bidders attended via online mode as well.

The following officials of BRBNMPL and interested-bidders viz. M/s Koenig & Bauer Banknote Solutions SA (K&BBS SA) and M/s Komori Corporation, Japan were participated in the pre-bid meeting

BRBNMPL

1. Shri. K R Gupta, SGM-PP
2. Shri. M V Rajanikanth, GM
3. Shri S Prabukumar, GM
4. Shri. Nandan Singh, DGM

Representatives of M/s K&BBS SA

1. Mr Kuldip Singh Bhadwal - In-person
2. Ms Pilar Rodriguez - Online
3. Mr Vincent Roulin - Online
4. Mr Thomas Tuerke - Online
5. Mr Steffen Schaffer - Online
6. Mr Martin Seizmier - Online
7. Mr Paul Johnston - Online

Representatives of M/s Komori Corporation, Japan (In person)

1. Mr. Taiji Towata: Sales & Marketing Manager - Komori, Japan
2. Mr. Masahiro Kodaira : Sales Representative - Komori, Japan
3. Mr. Yoichiro Abe : Technical Expert - Komori, Japan
4. Mr. Rajiv Pasari : M/s ASVA Sales & Marketing -Komori India Contact
5. Mr. Atul Mohadarkar : M/s ASVA Sales & marketing -Komori India Contact
6. Mr. Heiko Arold : Sales & Project Manager - Leibinger, Germany
7. Mr. Rajeev Shah : Indian representative of Leibinger, Germany
8. Mr. Nimesh Kharecha : Representative of M/s Lucid imaging - India
9. Mr. Takashi Harada - Komori, Japan - Online.

Detailed discussions were held on the queries / clarifications raised sought by M/s K&BBS SA and M/s Komori Corporation, Japan. The queries raised by both the parties were clarified by BRBNMPL. The amendments as envisaged out of the meeting, conclusions/modifications that are mutually agreed upon are attached herewith as Annexure-I.

The queries / clarifications raised / sought by the interested bidders and replies / clarifications given by BRBNMPL against Tender No. 07/CO/GT/NBG/2024-25 dated 16th January 2025 floated for Design, Manufacturing, Testing, Supply, Installation, Commissioning, Training and Performance Testing of 06 nos. of Numbering machines for Banknote printing (03 nos. for Mysuru and 03 nos. for Salboni) are tabulated below:

SL No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
1.	44	Section III: Special Instructions to Tenderers (SIT) Performance Bank Guarantee: Prove the performance of all the machine's parameters & operational efficiency as claimed by the bidders during its entire life cycle of the machines (10 years) as per the prevailing supply of Ink, paper and other consumables being used for printing of Indian banknotes.	Q1 Performance Bank Guarantee: Kindly delete this condition as consumption/utilisation of ink, paper and other consumables is not part of the tender requirements.	A1) This performance BG is surety to prove the performance of all the machine's parameters & operational efficiency as claimed by the bidders during its entire life cycle of the machines (10 years) by using the required inputs like Ink, paper and other consumables.
2.	45	Section III: Special Instructions to Tenderers (SIT) Performance Bank Guarantee: If any spare part fails under normal operating condition as per prevailing practice at our BRBNMPL presses, then the same has to be supplied by the bidder at free of cost during its entire life cycle (10 years). If the spares not supplied, the same will be procured by BRBNMPL and the actual cost incurred by BRBNMPL along with damages caused (Production loss/machine downtime) will be claimed from the performance BG submitted. If the breakdown spares exceeds the limit set at first block of 4 years, exceeded spares cost will be reimbursed to BRBNMPL within 30 days of claim by BRBNMPL, failing which the amount will be recovered by encashing the Bank Guarantee. If the Power consumption is more than the claims made by the bidders during entire life cycle of the machine (10 years), then the proportionate amount for excess power consumption has to be	Q2 Spare parts supplies are covered by a one-year warranty. This clause should therefore be limited to the warranty period of the supplied spare. Kindly confirm. Q3 Indirect damages (loss of production/machine downtime) are to be explicitly excluded from compensation claims. Q4 Kindly confirm that breakdown spares from year 5 onwards are excluded from this clause. Q5 We kindly ask for your confirmation that any applicable compensation claim derived from power consumption or missing spares, will be effected within 3 months from the	A2) The concern will be addressed in the upcoming corrigendum. A3) The concern will be addressed in the upcoming corrigendum. A4) The concern will be addressed in the upcoming corrigendum. A5) We consider Financial Year for the calculation (Start of April of current year to the end of March of next year).

Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
		reimbursed by the bidders on assessment of machine performance at the end of one year performance to BRBNMPL and necessary action to be taken to identify and rectification of the problem (which is in the scope of the bidder) for such excess consumption. Otherwise, the same amount will be deducted from the performance BG submitted and if the compensation amount is more than the BG amount, the bidder has to make the payment within 3 months from the date of notifying the compensation claim.	end of each civil year against the valid bank guarantee.	After discussion in the pre-bid meeting, the clause regarding power consumption will be amended in the corrigendum as mentioned below*:
<p>*1. The standard power consumption of Numbering machine and the optional items as declared by the bidder, will be used to derive the total power consumption cost for 10 years period for each machine, which will be taken into consideration in Life Cycle Cost.</p> <p>2. During FAT, the successful bidder is required to prove that actual power consumption is less than the standard power consumption as claimed in their bid.</p> <p>3. If the average power consumption of the individual machine exceeds the standard power consumption as claimed in their bid, then the recovery for the excess power consumption of the entire Life Cycle will be calculated as follows:</p> <p>Recovery amount = (Average Power consumption during FAT – Standard Power consumption declared in the bid) x 2 Shift x 300 days x 10 Years x Unit rate of Power prevailing at the time of the FAT.</p> <p>4. The above recovery amount will be deducted from the due amount payable to the successful bidder. In case, the recovery amount is more than the amount due for payment, then the same has to be paid by the supplier to BRBNMPL within 30 days from the date of notifying. In case of non-payment of dues within 30 days, then the amount shall be recovered by BRBNMPL by invoking performance BG submitted by the supplier.</p>				
3.	55, 100	Section III & Section VII Availability of Spares In the event of breakdown of the machine these spares shall be supplied to BRBNMPL within 3 working days of such breakdown for resumption of production.	Q6 In consideration of the 10 years life cycle and the evolution of technology, particularly in electronics, replacement of some parts may require particular analysis. Therefore, not all parts can be stored locally. In any case, 3 working days is much too short a time for delivery to the Press and resumption of production. Please amend to 15 working days.	A6) to be revised in the corrigendum upcoming corrigendum.
4.	62	Section IV: General Conditions of Contract (GCC) Use of contract documents and information	Q7 All obligations pertaining to confidentiality should be reciprocal. Kindly confirm that BRBNMPL undertakes an equivalent obligation	A7) These are standard clauses of the tender. BRBNMPL will provide during contract stage.

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
			regarding any confidential information and/or documents received from the successful bidder	
	68	Spare Parts 13.1 b) ii immediately following such discontinuation, providing BRBNMPL, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by BRBNMPL	Q8 As per general commercial proceedings, we would not be able to provide designs, drawings of third-party parts that could become discontinued. As per previous agreements with BRBNMPL, kindly accept that in case of discontinuation of third-party items, the bidder undertakes to provide alternative parts/spares for replacement.	A8) To be revised in the upcoming corrigendum.
	69	Section IV – General Conditions of Contract 15. Distribution of Despatch Documents for Clearance/ Receipt of Goods 15.3 "For Imported Goods, within 3 days of dispatch, the supplier will Notify BRBNMPL."	Q9 We kindly request a 7-day period to be able to cover for weekends and public holidays.	A9) The documents as mentioned should immediately be supplied to BRBNMPL by e-mail for processing. However, if the delayed dispatch of documents should result in demurrages, the penalty, etc. shall have to borne by successful bidder.
	76	Section IV – General Conditions of Contract 24. Liquidated damages	Q10 The clause holds no provision for delays not imputable to the Supplier, we therefore kindly request that the following be considered: Should the Supplier fail to deliver or install any of the good due to a delay by the Purchaser, no liquidated damages will be applied. In addition, should the installation or acceptance be delayed for reasons attributable to BRBNMPL, then BRBNMPL shall fully indemnify the Supplier for	A10) Tender condition prevails. On account of any delay due to BRBNMPL, for such delay the LD may not be applicable.

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
	78	Section IV – General Conditions of Contract 27.4 Escrow Arrangement	<p>the costs resulting from such a delay. In addition, the Supplier shall be able to invoice BRBNMPL according to the current service rates.</p> <p>Supplier's liability shall be limited to damages caused by wilful misconduct or gross negligence of its personnel and/or agents and shall not exceed the cost of repairing any defects of the goods or the purchase price for the goods, whichever is lower. In no event shall the Supplier be liable for indirect, incidental, special or consequential damages including, but not limited to, loss of profit or goodwill</p> <p>Q11 We understand the requirement to deposit proprietary information with a third-party escrow agent, we would however request to limit this deposit to the machine's life cycle period of 10 years with the subsequent restitution. Kindly amend</p>	A11) Tender condition prevails.
5.	86	Section V – Special Conditions of Contract Sl. No.5 Insurance: Insurance till each site will be the responsibility of the supplier	Q12. Kindly clarify the responsibility of transit insurance as machines shall be unloaded and customs-cleared by Customer at port of arrival. Further, movement by road is under Customer scope. Hence, insurance from Port to Press is to be under BRBNMPL's responsibility.	A12) Customs clearance and unloading at Port and movement of the machine from Port till each site shall be in the supplier's scope. Insurance from supplier's end till each site shall be done by the supplier. Necessary amendment will be issued.
6.	87	Section V – Special Conditions of Contract Sl. No.13 Taxes and Duties: The bidder needs to mention the GST rate considered in their quotation ...	Q13 As GST is a reverse charge, we kindly propose that GST be excluded from the service costs quoted by the bidders.	A13) Tender condition prevails.
7.	87	Section V – Special Conditions of Contract Sl. No. 12.2 - Terms and Mode of Payments	Q14 Terms and Mode of Payments (p71 - §12): We understand that the payment terms are on a	A14) Yes.

Comment by KOMORI ~~Towata~~

In the queries raised by M/s K&BBS, Sl. No.5, Question No12, BRB has answered that "Custom clearance and unloading at port and movement of the machine from port till each site shall be in supplier's scope". It is also mentioned that "necessary amendment will be made". The above was agreed by all the parties during the meeting.

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
			machine-by-machine basis. Please confirm.	
8.	89	Section VI	Q15 Earnest Money: INR 7.6 Crores In order to avoid any shortfall in the required amount due to exchange rate application, kindly provide foreign bidders with equivalent amount in international currency (EUR, USD, etc.) to be deposited	A15) Agreed. The foreign bidders may submit the required EMD in international currency equivalent to INR 7.6 Crores. However, any shortfall due to exchange rate variation discovered on the day of opening of technical bid will have to be replenished mandatorily.
9.	89	Section VI: List of Requirements 2. Required Delivery Schedule: first machine should be dispatched (Ex-works) within 10 months from the date of Letter of Intent (LOI)	Q16 In order to allow for the required training sessions and pre-dispatch inspection at the Supplier's, please extend the exw-delivery of the first machine to 12 months from LOI	A16) As discussed in the pre-bid meeting, it was decided that "The first machine should be dispatched (Ex-works) within 13 months from the date of issue of Letter of Intent (LOI)".
10.	89	Section VI: List of Requirements Required Delivery Schedule:	Q17 Delivery Schedule completion Period to be completed maximum of 28 months In relation to the above, kindly allow for an inter-machine exw delivery interval of 5 months; bringing the overall exw delivery completion to 37 months	A17) Dispatch of all the six machines (on Ex-works basis) should be completed within 33 months (after first machine remaining machines with interval of 4 months). However, the actual timeline for the delivery of the machines will be finalized during award of LOI/Agreement. The supplier shall submit Transporter certificate for substantiating the claim of date of machine dispatch (Ex-works).
11.	89	Section VI: List of Requirements Required Delivery Schedule	Q18 Onsite installation Installation, testing and commissioning for each machine shall start immediately on receipt of the	A18) The dismantling of the old machine and clearing of site should be completed by the

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SL No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
			machine/s at Stores of respective location. The start of the installation at the respective Press is subject to the site readiness according to the parameters given in the Bidder's site preparation layout. The 90 working days timeline is to therefore start with the validated site readiness.	successful bidder before dispatch of new machine. After dismantling and clearing the site, 45 days shall be required for the site preparation by BRB as per the layout diagram provided by the successful bidder. The 90 working days timeline shall start from the next date of receipt of machine at respective location or site readiness date, whichever is later.
12.	89	Section VI: List of Requirements Required Delivery Schedule	Q 19 The installation/completion period is to be extended according to public holidays in either India or Bidder's country; e.g. Diwali, Christmas/New Year shutdown. Kindly confirm Other delays imputable to either party should be calculated and duly documented during the installation/FAT phase	A19) The 90 working days shall be counted as per the working days of respective BRBNMPL Presses. For long holidays like Christmas, New Year, Golden week and Obon holidays, an extension for a period of maximum 3 weeks /21 days (put together) may be given by BRBNMPL in one calendar year.
13.	89	Section VI: List of Requirements Required Delivery Schedule	Q20 Extra training In order to allow for a smoother operation after FAC, we would recommend extending the on-site operator training from one week to three weeks (excluding optional equipment) to cover machine operation, numbering system, etc. Therefore, the completion time should be extended accordingly; i.e. to 100 working days.	A20) Tender condition prevails.
14.	89	Section VI: List of Requirements	Q21 Handling Equipment Can you please confirm that BRBNMPL Presses can put	A21) The successful bidder has to inspect the

Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
			at the disposal of the successful bidder the available handling and lifting equipment required for installation purposes? BRBNMPL is responsible for the handling of the crates/boxes under Supplier's supervision.	<p>respective BRBNMPL site and check for handling and lifting equipment availability at BRBNMPL. Only these equipment shall be spared by BRBNMPL.</p> <p>However, any additional equipment/tools to meet specific requirement shall be arranged by the successful bidder.</p> <p><u>Please refer Section XI: Price Schedule under Table A</u></p> <p><u>BRBNMPL shall be responsible for shipment handling at Indian ports and movement of consignment from Indian ports to BRBNMPL premises and unloading of consignment under the supervision of successful bidder.</u></p>
15.	89	Section VI: List of Requirements Required Delivery Schedule Each machine shall be installed, tested and commissioned and Final Acceptance Test (FAT) ... within 90 working days from date of receipt of item at respective site after which LD clause shall be applicable.	Q 22 Time to FAT completion The indicated period to <u>successful FAT</u> completion shall be applicable for the stipulated Numbering machines <u>without</u> optional equipment. Kindly confirm.	<p>A22) Yes, if optional items are not included in the LoI along with the numbering machine. If BRBNMPL procures optional equipment along with the numbering machine, the period for successful completion of FAT would include optional equipment as well.</p> <p><u>FAT conditions for the optional equipment shall be indicated separately.</u></p>
16.	89	Section VI: List of Requirements Required Delivery Schedule Each machine shall ... and ensure	Q23 Time to FAC issuance FAC issuance is often beyond the successful bidder's control, we hereby	<p>A23) Section VIII FAC: Upon satisfactory completion of FAT and all contractual obligations</p>

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
		issue of Final Acceptance Certificate (FAC) by respective presses, within 90 working days from date of receipt of item at respective site after which LD clause shall be applicable.	request that after successful FAT, FAC issuance should not be unduly delayed by BRBNMPL and be issued within one week after successful FAT completion, as duly indicated in the FAT section. Any additional delay in its issuance shall not be applicable for LD	BRBNMPL shall issue FAC for each system within one week.
17.	89 104	Section VI: List of Requirements 3.Dismantling Section VII 10.Dismantling 03 nos. of Komori make (at Salboni Press) and 03 nos. of KBA make (at Mysore Press) Numbering machines (with attachments and auxiliaries) are to be Dismantled, Disassembled and Defaced.	Q24 We kindly request that the list of associated attachments and auxiliaries be shared with the bidders for the submission of the tender	A24) Please refer to clause 10 of Section VII for details.
18.	89,90,1 04	Section VI: List of Requirements 3.Dismantling Section VII 10.Dismantling The tools and equipment available at the Press may be spared to the successful bidder.	Q25 With regard to the availability to the successful bidder of the mentioned equipment, can available handling and lifting equipment also be made available? BRBNMPL is responsible for the handling of the crates/boxes under Supplier's supervision.	A25) Any additional equipment/tools to meet specific requirement shall be arranged by the successful bidder.
19.	90, 104	Section VI: List of Requirements 3.Dismantling Section VII 10.Dismantling Dismantling and clearing the site should be completed within one month defacing and lifting (removing from BRB premises) should be completed within the next 45 days.	Q26 Kindly confirm that the stipulated periods are to be understood per machine.	A26) For each machine, dismantling and clearing the site should be completed within one month and before dispatch of corresponding machine. Defacing, lifting and melting should be completed within the next forty five days.
20.	90	Section VI: List of Requirements 1. Scope of Supply The machine, equipment, incidental services/accessories and other auxiliaries under scope of supply shall be ...	Q27 The supplies need to conform to the tender requirements as per the terms and conditions, particularly those reflected in Section VII - Technical Specifications - and any amendment thereto. Kindly confirm	A27) Tender condition prevails.
21.	93	Section VII Essential General Specifications	Q28 Availability in the Indian market of	A28) All the technical

Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
	- - -	2.14... all the consumables used at the machines and should be available in the Indian market	required/equivalent consumables is beyond supplier's scope.	specifications and MSDS should be made available.
22.		Section VII 3.4 Online Number Quality Inspection System: System shall ensure that the background printing (with or without inset letter) over which serial numbering is done shall not have any impact on the quality of inspection of serial numbers.	Q29 The system shall ensure that background printing (with or without an inset letter) does not negatively affect serial number inspection, provided the background printing has reasonable contrast with the serial numbers in either RGB or infrared light.	A29) Tender condition prevails.
23.	96, 101	Section VII 3.4.9 Online Number Quality Inspection System: The system shall be protected against power failure and voltage fluctuations. In case of power failure the power backup required by the system should be for 20 minutes. 5.6 Machine console is totally supported by the backup of the UPS for data log saving for minimum of 30 minutes	Q30 In case of power failure, the UPS will take over for 2 minutes. After this time, the system will launch a proper shutdown to ensure that no data is lost. Please modify/delete the backup time request	A30). All the machine console data and log details should be available. Machine restart should not be delayed after power resumption.
24.	96	Section VII 3.4.23 Online Number Quality Inspection System: The system shall compare the numbering Run chart details with the actual numbering of watermark sheet and stop the machine if sheet is getting printed with the wrong run chart or if a wrong run chart is entered by the operator in the Inspection system. The Run chart check should be robust and must check both the prefix part and the serial number part (Real time number verification).	Q31 Could BRBNMPL provide an example of the run chart prior to tender submission? Thank you	A31) An example of the run chart will be provided.
25.	96	Section VII 3.4.34 Online Number Quality Inspection System: Different run schemes should be provided and each run scheme shall be possible to be saved in a different profile. It should also be possible to create new Run schemes for different users easily without involving much	Q32 Could BRBNMPL provide an example of a run scheme and explain the difference between a run scheme and a run chart?	A32) An example of the run chart / scheme will be provided.

Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
		system downtime.		
26.	97	Section VII 3.4.41 Online Number Quality Inspection System: The system UI shall have facility to save different Runs under different profiles which can be renamed as required.	Q33 Could BRBNMPL elaborate on the information that should be included in a saved run?	A33) The requirements, if any, will be explained in detail by users during installation of the system.
27.	98	Section VII 3.6.10 System for Monitoring Production and Maintenance: Shall be compatible for interfacing with track- & trace facilities and at an offline central computer.	Q34 Please explain this clause in more detail, in particular "offline central computer"	A34) If BRBNMPL intends to install track and trace system in future, the data should be available on an offline central computer.
28.	98	Section VII 3.6.12 System for Monitoring Production and Maintenance: System should store all production data for long time in days and shift format	Q35 Please define the length of time intended by "long time"	A35) System should store all production related data for at least one year, in days and shift formats.
29.	98	Section VII 3.6.13 System for Monitoring Production and Maintenance: In case if the machine is integrated with ERP software all the required support shall be extended by the supplier	Q36 Please describe in detail the type and duration of the support that you require for each printing plant. Please supply the Manufacturer and Version of the ERP system expected in each printing plant.	A36) BRBNMPL is in the process of procurement of ERP system. Initially, the support will be required till completion of FAT of the last numbering machine. In case, BRBNMPL intends to take supplier's support for further period, it will be discussed under mutual agreed terms.
30.		Section VII 3.6.2.5 System for Monitoring Production and Maintenance: The Spare laptop should contain concern software and antivirus with DVD writer.	Q37 It is understood that the spare laptop(3.6.2.5) is same as service laptop (3.6.4.b). Kindly confirm. As external storage medium a pendrive will be used; DVD-writer no longer used.	A37) One spare laptop for each machine which can also be considered as service laptop. As external storage medium a pendrive will be used.
31.	99	Section VII 3.6.6-2 Production Management System Number of sheets fed into the printing unit by the swing gripper mechanism	Q38 Should machine not incorporate "swing gripper", kindly allow for as per machine design	A38) Yes, allowed as per machine design. However, in case of any other mechanism / device incorporated in the machine, a detailed design is required to be submitted by the bidder.

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
32.	99	Section VII 3.9.1-d Online Varnish Coating- Optional The system shall be equipped with suitable monitoring, reporting and corrective mechanism in regards with coated varnish	Q 39 No inline system available but offline monitoring with traditional weighing method. Kindly allow as per machine design.	A39) Yes, allowed as per machine design. Bidder may provide a suitable monitoring, reporting and corrective mechanism. If any devices / instruments required, the same should also be provided along with the varnishing unit.
33.	100	Section VII Maintenance 4.2,4.5,4.12 4.2 - List of spare parts with a proper consumption pattern and average life shall be furnished by the successful bidder 4.5 - Spare parts list shall be classified as First wiring spares, General Spares and rarely use spare parts for Electrical and mechanical spares. 4.12 - List of all Electrical, Mechanical and Electronics spare parts details such as Make, Model, Rating Specification, Quantity, Location etc with a proper consumption pattern and average life shall be furnished by the successful bidder	Q 40 We believe the list required under 4.2 and 4.12 are one and the same; only to be supplied by the successful bidder. Kindly confirm. Please be advised that, as mentioned above, Maker and Model details cannot be provided. Furthermore, in order to be able to provide the most accurate lists according to the manufacturing process of the machines and the configuration retained by BRBNMPL, we kindly request that such a list be provided before FAC issuance. Kindly confirm. We understand that the classification mentioned for 4.5 (fast wearing- general spares-rarely used) both for electrical and mechanical spares, is for tender response purposes, to be further divided into two lists: preventive and breakdown spares. Correct?	A40) The list required under 4.2 and 4.12 are one and the same. Declaration to this effect may be submitted along with the technical bid. <u>For be revised.</u>
34.		Section VII 4.3 Maintenance International standards applicable for all mechanical, electrical and electronic items such as spare components, Lubrications, Sensors, PLC, Pneumatics and Hydraulics shall be provided by the successful bidder	Q41 Kindly acknowledge that international standards can only be provided for standard mechanical parts like bearings, screws, pins,.	A41) Tender condition prevails.
35.	100	Section VII Maintenance 4.4 transparent viewing area Side frames of the machines shall be provided with a transparent viewing area	Q42 Traditional numbering machines not foreseen with transparent viewing area. Please delete.	A42) As per the machine design.

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
36.	100	Section VII Maintenance 4.7 Spare parts catalogue 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.	Q43 The spare parts catalogues - also available at the machine console - mention the location on machine and other relative details allowing an easy identification. You will however understand that no specific manufacturer ("maker"), model details, availability in India, etc can be included as subject to change, market availability, technological evolution, besides proprietary reasons, etc. Kindly provide your understanding and agreement to the standard spare parts catalogues. All parts can be locally supplied through our subsidiary Koenig & Bauer Banknote Solutions (IN).	A43) <u>To be revised in the upcoming corrigendum.</u>
37.	100	Section VII Maintenance 4.8-2 Maintenance Manuals 2. PLC program sequence diagram	Q44 Source code being proprietary information, soft copy (pendrive) will be supplied	A44) Agreed
38.	100	Section VII Maintenance 4.8-3 Maintenance Manuals 3. Mechanical drawing with details of each component	Q45 Assembly drawings will be made available in the spare parts catalogue, separate mechanical drawings not provided	A45) Agreed
39.	100	Section VII Maintenance 4.8-7 Spares list (Make, Model, Quantity, Specification/rating, location used etc	Q46 Spare parts lists/catalogue do not include Make/Model. Kindly accept	A46) To be provided wherever possible. Quantity and Specifications should be given.
40.	100	Section VII Maintenance 4.8-6. Trouble shooting for all machine errors along with remedial solutions	Q47 Error codes with resolution shown in the display. No hard copy will be provided	A47) Agreed
41.	103	Section VII Accessories Manuals 7-19 Numbering Box cover mounting screws-200 Nos	Q48 Kindly allow for numbering box design, should cover screws not be necessary	A48) Agreed
42.	103	Section VII 9.1-III Documentation	Q49 Please explain the	A49) Bidder can provide

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
			BRBNMPL confirm if it would be sending two different crews for the mechanical/electrical training sessions or one team would be attending it all? Thank you	be at same time in a single batch and training schedule shall be finalized in consultation with the successful bidder.
48.	104	Section VII On-Site training ... one week training for each machine supply during the installation and commissioning of the system at our premises	Q55 Kindly confirm that this on-site training should only concentrate on operators. We would suggest to extend this period to 3 weeks (without optional equipment) to enable a satisfactory takeover of machine operation after FAC	A55) One week onsite training is required for operators, maintenance personnel nominated by BRBNMPL.
49.	105	Section VII Machine size The supplier has to maintain machine size -length 14.3m and width 4m (without the optional units) as this is the available area for machine installation	Q56 We understand that 14.3m x 4m is the available area for machine installation, including optional items such as varnish coating unit, if acquired by BRBNMPL. Is our interpretation correct?	A56) To be revised in the upcoming corrigendum.
50.	105	Section VII Colour of the machine Colour of the machine: will be intimated to successful bidder at the time of placing order/LOI	Q57 Machines to be delivered with Bidders standard colours.	A57) Standard color options available with the manufacturer shall be mentioned in the technical bid. The color of the machine to be supplied shall be decided by BRBNMPL and will be mentioned in the LOI / Agreement.
51.	109	Section VII Machine footprint If resultant L1 bidder after deriving Life Cycle Cost, is having higher machine foot print, the price discount will be applicable for the amount as illustrated in table 7(A) of Section III (SIT)	Q58 Kindly provide Table 7(A) as it does not seem to have been included in Section III (SIT). Thank you.	A58) The clause at sl. no. 10 of "General Terms - Summary" under "Section I, Qualification / Eligibility Criteria" is not applicable and will be amended.
52.	106	Section VIII FAT/FAC NPT/TMAT	Q59 How are these notions evaluated? Kindly clarify	A59) Bidder can calculate the Net production time (NPT) and Total Mandatory Activity Time (TMAT) of their own. However, <u>bidders should meet</u> as per Section VII

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Sl No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
				Clause 1.9, "Numbering machine shall be suitable for printing at least 63000 good quality sheets in 9 hours shift operation".
53.	106	Section VIII 1] FAT/FAC 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	Q60 Make-ready paper should be provided by the BRBNMPL to the successful bidder prior to FAT for tests purposes. Banknote paper for FAT production should be A quality paper	A60) BRBNMPL can provide prevailing raw material used for regular banknote production. For test purposes prior to FAT, the successful bidder shall be provided with Blue Trial Paper (BTP) available with BRBNMPL.
54.	106	Section VIII 2] FAT/FAC Machine oriented stoppages consists of preproduction run time, replacement of consumables, intermittent cleaning, adjustment of machine feeder, end of shift machine check and cleaning	Q61 Additional cleaning or other production stops caused by quality of ink or paper to be excluded from the normal production or cleaning time	A61) Tender condition prevails.
55.	106	Section VIII 3] FAT/FAC 3) All the results have to be agreed by signing in the format marked as "Inspection Result"	Q62 Kindly clarify "Inspection Result"	A62) During the FAT, the shift end data and the inspection result are being recorded in a format which should be signed by representative of the successful bidder which will be the supporting document for issue of FAC.
56.	114	Section XI Price Schedule Currency Unit/Total Price (INR)	Q63 Kindly confirm that for Foreign Bidders, all price tables can be expressed in major international currency, to be then converted to INR as stipulated in SIT.	A63) Yes. Bidder should quote the prices preferably in Indian Rupees. In case if the bidder quotes in other currency, such quoted prices of the responsive tenderers will be converted to a single currency viz, Indian Rupees for the purpose of equitable comparison and evaluation, as per the B.C. selling exchange rates established by the State Bank of India for similar transactions, as on

SL No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
				the date of tender opening for L1 determination. In case of any bank holiday, the previous day's closing price will be considered.
57.	114	Section XI Price Schedule Optional items Optional items	Q64 As the optional items, may be ordered by BRBNMPL at a later stage (not at tender award), however these items have a considerable impact in other costs such as freight/insurance/installation, training, etc. For the sake of clarity, we propose that a separate table for the optional items be submitted and not be subjected to the L1 calculation. Furthermore, there are other optional items not included in the price table: Offline numbering box make ready unit (page 94), second ink fountain for overprint unit (page 100). How are these items going to be correctly identified and treated? Likewise, the optional items should not be considered for the establishment of the maintenance spares lists/healthchecks, hence excluded from the Life Cycle Cost Calculation. Please confirm.	A64) Price Schedule will be amended suitably in the upcoming corrigendum. The over print unit is an optional requirement and with one ink fountain. Varnish unit and Overprint unit are included for arriving operating cost of power consumption for LCC calculation.
58.	117,118	Section XI Tables D/E Price Schedule Maintenance spares pricing Table D) Price schedule for Maintenance spares (Preventive maintenance spares) for entire life cycle for a period of 10 years Table E) Price schedule for Maintenance spares (Breakdown maintenance spares) including numbering box and Numbering Verification System spares for entire life cycle for a period of 10 years	Q65 We kindly request a discussion/clarification on the definition of what is to be considered: a) Preventive maintenance spares; e.g. lubrication, W&T parts (batteries, filters, cam follower, ...). Consumables also to be included? Breakdown spares (critical parts, parts for preventive	A65) To be revised in the upcoming corrigendum.

SL No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
			change,...) This will help all parties understand the scope, mitigation and expectations during the life cycle of the machines	
59.	117,11 8	Section XI Tables D/E Price Schedule Maintenance spares pricing Detailed breakup of the above table D, each spares required for preventive maintenance along with recommended quantity and its respective unit rate should be quoted separately Detailed breakup of the above table E, each spares required for breakdown maintenance along with recommended quantity and its respective unit rate should be quoted separately	Q66 Considering the huge work involved to prepare the detailed breakup lists in the time given for tender submission, we would like to know if the submission of these lists is absolutely mandatory? Can they eventually be reported at "0" cost in the relative price schedule tables?	A66) To be revised in the upcoming corrigendum
60.	117,11 8	Section XI Tables D/E Price Schedule Incoterin spares a. Preventive Maintenance spares should be quoted on CIF basis a. Breakdown Maintenance spares cost quoted should be on FOR basis (destination Mysuru/Salboni).	Q67 There are multiple cost components such as freight, insurance, customs, taxes, etc. involved in the price validation for 10 years. These factors can vary due to Govt decision/policies, market situation, etc. We therefore request that the life cycle spares be indicated in a FOB/FCA basis only. Thank you for your confirmation.	A67) To be revised in the upcoming corrigendum
61.	117,11 8	Section XI Tables D/E/F Price Schedule Maintenance spares pricing HSN/SAC	Q68 Kindly clarify meaning. What should be inscribed here referring to the detailed lists of spares requested? Thank you	A68) Harmonised System of Nomenclature/Service Accounting Code/Customs code
62.	118	Section XI Tables E Price Schedule Breakdown spares Table E) Price schedule for Maintenance spares (Breakdown maintenance spares) including numbering box and Numbering Verification System spares for entire life cycle for a period of 10 years	Q69 When would be BRBNMPL's intention to purchase the listed breakdown spares : e.g. 4-year block in one go at first year? etc? Also please clarify what would be the action in case breakdown is due to poor maintenance & operation of machine? Further we assume the cost is only for	A69) To be revised in the upcoming corrigendum

Sl No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s K&BBS, Switzerland	Reply/ Clarification from BRBNMPL
			spare parts and not the intervention required. Please confirm.	
63.	118	Section XI Tables F Price Schedule Machine healthchecks Table F) Price schedule for Condition Monitoring (Health Checkup) for entire life cycle for a period of 10 years	Q70 Besides the recommended stipulated healthchecks, would BRBNMPL envisage the conclusion of maintenance contract for the contracted machines to ensure a smooth running?	A70) To be revised in the upcoming corrigendum.

Sl No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
1.	6	Section I, Notice Inviting Tender (NIT), Closing date and time for receipt of tenders "10.30 Hrs on 05th March 2025" (p.6)	→ In the tender documents, there are many points that needs clarification from the Customer, which hopefully will be answered during Pre-Bid meeting. Subsequently we need to internally understand and then to enable us to prepare an accurate estimate and necessary documentation for the submissions, we need more time. Therefore we kindly request that the bid submission deadline be extended to 31 March, 2025.	Extension of bld submission date will be informed in due course.
2.	44	Section II, Special Instructions to Tenderers (SIT), SL No.18: Note-A, A. Performance Bank Guarantee, 1. "Bidder has to submit performance bank guarantee for sum of 5% of the total value of the contract of all the six machines and 5% of the machine spare cost (10 years spares as given in Price schedule) for a period of 10 years." (p.44)	→ There are no banks in Japan which can issue 10-year bank guarantee. Also it is not possible to issue 1-year bank guarantee and extend it every year for 10 years. Please delete this clause.	Tender condition prevails.
3.	44 & 45	Section II, Special Instructions to Tenderers (SIT), SL No.18: Note-A, A.	→ We cannot make commit to power consumption as it clearly varies depending on the operation and	After discussion in the pre-bid meeting, the clause regarding power

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
		Performance Bank Guarantee, 4. "If the Power consumption is more than the claims made by the bidder during entire life cycle of the machine (10 years), then the proportionate amount for excess power consumption has to be reimbursed by the bidders" (p.44 & 45)	environment of each factory. Please delete this clause.	consumption will be amended in the corrigendum as mentioned below*:
<p>*1. The standard power consumption of Numbering machine and the optional items as declared by the bidder, will be used to derive the total power consumption cost for 10 years period for each machine, which will be taken into consideration in Life Cycle Cost.</p> <p>2. During FAT, the successful bidder is required to prove that actual power consumption is less than the standard power consumption as claimed in their bid.</p> <p>3. If the average power consumption of the individual machine exceeds the standard power consumption as claimed in their bid, then the recovery for the excess power consumption of the entire Life Cycle will be calculated as follows:</p> <p>Recovery amount = (Average Power consumption during FAT – Standard Power consumption declared in the bid) x 2 Shift x 300 days x 10 Years x Unit rate of Power prevailing at the time of the FAT.</p> <p>4. The above recovery amount will be deducted from the due amount payable to the successful bidder. In case, the recovery amount is more than the amount due for payment, then the same has to be paid by the supplier to BRBNMPL within 30 days from the date of notifying. In case of non-payment of dues within 30 days, then the amount shall be recovered by BRBNMPL by invoking performance BG submitted by the supplier.</p>				
4.	45	Section II, Special Instructions to Tenderers (SIT), Sl. No.18: Note-A, A. Performance Bank Guarantee, 5. "If any spare part fails under normal operating condition as per prevailing practice at our BRBNMPL presses, then the same has to be supplied by the bidder at free of cost during its entire life cycle (10 years)." (p.45):	<p>→</p> <ul style="list-style-type: none"> #1 If bidder must supply any spare parts that failed, why does bidder need to list up the parts in detail as we cannot identify and assure which parts can fail in advance? #2 Can we understand that any consumable parts are not included in this requirement? 	<p>to be revised in the upcoming corrigendum.</p> <p># 2 BRBNMPL shall treat the following items as consumables: Lubrication oil, Grease, Solvent, Hydraulic oil, Cleaning solution.</p>
5.	45	Section II, Special Instructions to Tenderers (SIT), Sl. No.18: Note-A, A. Performance Bank Guarantee, 5. "If any spare part fails under normal operating condition as per prevailing practice at our BRBNMPL presses, then the same has to be supplied by the bidder at	→ Please delete that clause as we have the one-year machine warranty to cover such cases. Instead of LCC, we would like to propose 10 years warranty, so that 10 year bank guarantee, breakdown and preventive maintenance parts list, yearly evaluation etc are not required and it will be less burden for both BRB and supplier. Please find our proposal of	<p>to be revised in the upcoming corrigendum.</p>

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
		free of cost during its entire life cycle (10 years)." (p.45):	10 years warranty at #63.	
6.	45	Section □, Special Instructions to Tenderers (SIT), SI. No.18: Note-A, A. Performance Bank Guarantee, 6. "If the breakdown spares exceeds the limit set at first block of 4 years, exceeded spares cost will be reimbursed to BRBNMPL..." (p.45)	→ Please clarify the requirement. Reimbursement is required to "Breakdown Maintenance spares list for 1st to 4th year" ?	To be revised in the upcoming corrigendum.
7.	45	Section □, Special Instructions to Tenderers (SIT), SI. No.18: Note-A, A. Performance Bank Guarantee, 6. "If the breakdown spares exceeds the limit set at first block of 4 years, exceeded spares cost will be reimbursed to BRBNMPL..." (p.45)	→ Please delete that clause as we have the one-year machine warranty to cover such cases. Instead of LCC, we would like to propose 10 years warranty, so that 10 year bank guarantee, breakdown and preventive maintenance parts list, yearly evaluation etc are not required and it will be less burden for both BRB and supplier. Please find our proposal of 10 years warranty at #63.	To be revised in the upcoming corrigendum.
8.	49	Section □, Special Instructions to Tenderers (SIT), SI. No.18: Note-A, Table 1A, SI. No.7 "Cumulative total at SI. No.5 x 300 days X 2 shift X 6 machines" (p.49):	→ Is it not SI. No.5, but SI. No.6? Please confirm it.	This will be corrected in the Revised Price schedule to be issued.
9.	50	Section □, Special Instructions to Tenderers (SIT), SI. No.18: Note-A, Table 2 ILLUSTRATION (Calculation for Preventive Maintenance Spare consumption cost) (p.50):	→ It is not clear whether including optional equipment. Please clarify.	Spares for optional equipment will be considered for calculation. Separate tables for machine and optional equipment spares will be provided in the Revised Price schedule.
10.	52	Section □, Special Instructions to Tenderers (SIT), SI. No.18: Note-A, Table 4, Condition Monitoring	→ It is not clear whether including optional equipment. Please clarify.	Separate table shall be provided for Condition Monitoring, Health Check-up of optional

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from HRBNMPL
		(Health Check-up) (p.52):		Equipment in the Revised Price Schedule
11.	53	Section □, Special Instructions to Tenderers (SIT), Sl. No.18: Note-A, Table 5, Sl. No.4 "Operating cost of Power consumption for 6 machines over a period of 10 years in Rs." (p.53)	→ Is it including Varnish unit and Overprint unit? Please confirm it.	The table 5 – Saving to Investment Ratio and Life Cycle Cost Calculation shall be amended at page no. 53. Operating cost of Power consumption for optional items will be considered, if ordered.
12.	53	Section □, Special Instructions to Tenderers (SIT), Sl. No.18: Note-A, Table 5, Sl. No.7 "Operating cost of L1-Operating cost of L2(L3)" (p.53):	→ According to Table 6 of the example of calculation (p.54), it seems like L1 and L2(L3) should be reversed. Which is the correct calculation?	More clarity with formula will be provided in the upcoming corrigendum.
13.	53	Section □, Special Instructions to Tenderers (SIT), Sl. No.18: Note-A, Table 5, Sl. No.8 "Saving to Investment Ratio (B/A) (Sl. No.7 / 3)" (p.53):	→What does this ratio mean and indicate? Please kindly explain:	Incremental Investment cost denotes the difference between L1 to individual bidder of Original Quoted Price. Incremental Saving Cost is the operating cost of power consumption plus operating cost of maintenance including preventive, breakdown and health check-up spares. Saving to Investment Ratio is ratio of Incremental Saving Cost to Incremental Investment cost. The Table 6 at page no. 54 will be amended to have more clarity.
14.	79	Section □, General Conditions of Contract (GCC), Clause No.30 Fall Clause "This clause shall be applicable only if explicitly invoked in SCC.	→It is not clear in SCC whether it is invoked. Please kindly confirm it.	Fall clause is applicable for this tender. <u>This will be mentioned in SCC</u>

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
		Nevertheless, Fall Clause shall be expressly applicable in case of Rate Contract" (p.79):		
15.	70	Section IV: General Conditions of Contract (GCC) / Modification of contract 19.1 Once a contract has been concluded, the terms and conditions thereof will generally not be varied. However, if necessary, BRBNMPL may suo-moto or, on request from the supplier, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following: (f) any other area(s) of the contract, as felt necessary by BRBNMPL depending on the merits of the case (p. 70)	→ Please modify as follows. (f) any other area(s) of the contract, as felt necessary by BRBNMPL and/or supplier depending on the merits of the case	Tender condition prevails.
16.	78	Section IV: General Conditions of Contract (GCC) / 27.4 Escrow Arrangement (I) The Supplier shall deposit with a third party escrow agent mutually agreed to by the parties, a copy of Software and its source code and object code for safe keeping with instructions for it to be released forthwith to BRBNMPL, in the event the Supplier fails...	→ Please delete this clause as these are all highly confidential information and cannot to be handed-over to any third parties	Tender condition prevails.
17.	87	Section C, Special Conditions of Contract (SCC), Sl. No.13 "Taxes and Duties" (p.87):	→ Whether TDS & GST applicable on Training at Manufacturer's site? How much is the percentage of TDS? Please specify the percentage of TDS.	<u>Present TDS is at the rate 10%. However, prevailing TDS rate will be applicable at the time of payment.</u> <u>GST will be clarified by F&A</u>
18.	89	Section C, List of	→ #1 Please kindly clarify the	#1 <u>The wording of</u>

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
	--	and Defacing offer of Existing Numbering-- Machines at Mysore and Salboni Presses" (p.89 & 90):	retained by BRBNMPL or handed over for defacing? If handed-over for defacing then please advise the procedure to deface the wheels, boxes and the system?	will be retained by BRBNMPL.
21.	92	Section □, Technical Specifications, 1. BRIEF DESCRIPTION - 1.2 "Automatic sheet fed numbering machine shall be suitable for numbering of Banknotes up to 60 Ups and other security documents in top & bottom panel." (p.92):	→The maximum 60UP for the numbering box is compliant, but could you please explain what "other security documents in top & bottom panel" means?	This clause is amended as below: 1.2 "Automatic sheet fed numbering machine shall be suitable for numbering of Banknotes up to 60 Ups. The number sequences for any other security documents, if introduced in future, will be taken up with the successful bidder as and when required.
22.	93	Section □, Technical Specifications, 2. ESSENTIAL GENERAL SPECIFICATIONS - 2.10 "Suitable for production for at least 10 years in two shift operation without any overhauling." (p.93):	→What is the meaning of "without any overhauling"? Please note that numbering boxes and machine without a regular maintenance will not work in stable conditions.	The overhauling here is meant for the comprehensive machine overhauling other than the regular preventive, periodical and breakdown maintenances.
23.	93	Section □, Technical Specifications 2. ESSENTIAL GENERAL SPECIFICATIONS & 3. MAJOR MODULES 2.15 The requirement of compressed air in volume and pressure to be mentioned. 3.8 Thermoregulation Unit: The Thermoregulation unit should be complete in all respects including closed loop refrigeration circuit (p.93)	→ Please kindly clarify whether compressed air and chilled water will be supplied by BRB from their central arrangement.	Yes.
24.	94	Section □, Technical Specifications, 3. MAJOR MODULES - 3.2 Printing and Inking Unit - 3.2.6 □ "... At close, no ink film shall be	→As you know, the ink key will be fully closed, but it will not be "no ink." The film thickness under fully closed conditions will be approximately 10μ.	Agreed. It is very clear that no ink film should be transferred at close.

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 G. M. S. Gowda
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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
		transferred." (p.94)		
25.	94	Section □, Technical Specifications, 3. MAJOR MODULES - 3.2 Printing and Inking Unit - 3.2.6 □ "Latest Ultrasonic bath should be provided to clean the Numbering boxes and wheels." (p.94):	→As the Ultrasonic bath is available in different sizes to a wide range of its price, we should know more about requirement, for example required tank volume or max. basket load, etc. Additionally, as you know, washing the entire box (including electronic devices) will damage the equipment.	The size of the ultrasonic bath should have capacity to freely dip at least 15 to 20 numbering boxes inside the cleaning solvent bath.
26.	95	Section □, Technical Specifications, 3. MAJOR MODULES - 3.3.2 "Shall be capable to number up to two panels in the same side of the banknote. The numbering system shall be capable to number all Indian currency/banknotes Re1/-, Rs.5/-, Rs.10/-, Rs.20/-, Rs.50/-, Rs.100/-, Rs. 200/- Rs.500/- and any other denominations as per requirement." (p.95):	→We would like to share that Re. 1 and Rs. 5 denominations had only one numbering panel on the note considering the size of the note. We understand that in case of numbering on Re.1/- & Rs.5/- denomination would require only one panel numbering.	Yes.
27.	95	Section □, Technical Specifications, 3. MAJOR MODULES - 3.3.5 "The system shall detect wrong positions of prefix and suffix during setup and faulty switching at printing process and shall identify before numbering to avoid wrong numbering and shall display on the monitor and machine to be stopped for wrong printing." (p.95):	→In the Indian banknote numbering pattern there is only prefix and no suffix. Please clarify.	The suffix here means the numerical number panel.
28.	97	Section □, Technical Specifications, 3.4 Online Number Quality Inspection System, General Requirements of Online Number Inspection System, 45. The system to have provision to transfer the inspection details along with the defective note positions in offline mode like CDs, USB	→ The inspection Details (Results) include graphical, textual, and image data. Our Inspection System has the capability to store 2 Million images of Defect area. We request BRBNMPL to specify the purpose, amount, and frequency of the data transfers required to the External Media (like, USB storage).	The inspection details should be exported to external media and recalled on need basis for review within inspection system environment. However, the online inspection data (numerical data) should be transferred to the

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
		ports etc. (p.97)		centralised computer along with the machine production data.
29.	100	Section □, Technical Specifications, 3. MAJOR MODULES – 3.11 Over-Print Unit (Optional) "One ink fountain as standard, and second ink fountain as an optional." (p.100):	→ Over-Prunit unit is not currently applied for the production of the Indian Rupee. But what designs and in how many colors will BRB is going to print using the Over-Print unit? Please delete "and second ink fountain as an optional".	The over print unit is an optional requirement with one ink fountain.
30.	100	Section □, Technical Specifications, 4. MAINTENANCE – 4.2 "List of spare parts with a proper consumption pattern and average life shall be furnished by the successful bidder." (p.100):	→ Are we correct in understanding that this information should be attached when submitting the recommended parts list?	To be revised in the upcoming corrigendum.
31.	100	Section □, Technical Specifications, 4. MAINTENANCE – 4.6 "Maintenance & service of the machine should be clearly mentioned as per the machine hour." (p.100):	→What does 'machine hour' mean? Does it mean operating hour?"	Machine hour means actual machine printing hours.
32.	100	Section □, Technical Specifications, 4. MAINTENANCE – 4.7 "Spare parts list shall be mentioning the spare parts makers details, If the spare makers are international items then the spare catalogue clearly shall mention the Indian supplement and authorized dealer details." (p.100):	→ We are overseas supplier and do not have details of parts dealers in India. Please delete.	To be revised in the upcoming corrigendum.
33.	100	Section □, Technical Specifications, 4. MAINTENANCE – 4.8 "Following manuals 4 sets for each machine as well as in softcopy (CD Pen drives etc.)" (p.100):	→On page 103, 9. DOCUMENTS REQUIREMENT, it specifies three copies. Since this is duplicated, please let us know the required number of copies.	The tender conditions at Section □, Technical Specifications, 9. DOCUMENTS REQUIREMENT – 9.1 shall prevail. However, soft copy should also be provided.

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
34.	100	Section □, Technical Specifications, 4. MAINTENANCE - 4.8.7. Spares list (Make, Model, Quantity, Specification/rating, location used etc.	→ Please clarify the difference of the list for 4.2, 4.5, 4.7 & 4.12	To be reviewed All the requirements at 4.2, 4.5, 4.7 & 4.12 can be clubbed together.
35.	100	Section □, Technical Specifications, 4. MAINTENANCE - 4.13 Availability of Spares "Apart from the break down spares considered in the life cycle cost and spares supplied along with the machines, bidders should identify critical spares for Breakdown maintenance (list to be supplied to BRBNMPL)." (p.100):	→ Please clarify the requirement. Does it mean we indicate "critical spares" in the "Break down maintenance parts list"?	To be revised in the upcoming corrigendum.
36.	100	Section □, Technical Specifications, 4. MAINTENANCE - 4.13 Availability of Spares "It is compulsory that L1 Bidder should hold / store locally and support the presses the requirement of the spares as and when required for the smooth and continuous operation of the machines during the life cycle period." (p.100):	→ It is not possible to hold / store all the parts no matter it is in Japan and/or India. Please delete this clause.	To be revised in the upcoming corrigendum.
37.	100	Section □, Technical Specifications, 4. MAINTENANCE - 4.13 Availability of Spares "In the event of breakdown of the machine these spares shall be supplied to BRBNMPL within 3 working days of such breakdown for resumption of production. The Bidder should elaborate his proposed setup and location in detail along with tender bid submission." (p.100):	→ It is not possible. Please delete this clause.	To be revised in the upcoming corrigendum.
38.	100	Section □, Technical Specifications, 4.	→ It is not feasible. Please delete this	To be revised in the

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SL No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
		MAINTENANCE - 4.13. Availability of Spares "The Bidder should elaborate his proposed setup and location in detail along with tender bid submission." (p.100):	clause.	upcoming corrigendum
39.	101	Section □, Technical Specifications, 5. ELECTRICAL AND ELECTRONICS CONTROL - 5.1 "Electrical control cabinets: Machine operation shall be controlled electrically by the electric control cabinets lights." (p.101):	→The meaning of "Lights" is unclear. Could you please explain in detail?	The clause is amended as below: 5.1 "Electrical control cabinets: Machine operation shall be controlled electrically by
40.	101	Section □, Technical Specifications, 5. ELECTRICAL AND ELECTRONICS CONTROL - 5.6 UPS for Signal Lines "Machine console is totally supported by the backup of the UPS for data log saving for minimum of 30 minutes." (p.101):	→The UPS for data logging is equipped with the PC. Data at the time of power failure can be saved. What do you want to save within 30 minutes?	All the machine console data and log details should be available. Machine restart should not be delayed after power resumption.
41.	101	Section □, Technical Specifications, 5. ELECTRICAL AND ELECTRONICS CONTROL - 5.6 UPS for Signal Lines "Make of the UPS should be generalized as per the international standard and the service would be available in the Indian market." (p.101):	→ Service of UPS for machine cabinet is available in the Indian market. However, service of UPS for KHS-AI is not available in the Indian market. Service of UPS for KHS-AI will be provided by KOMORI Japan.	Agreed.
42.	102	Section □, Technical Specifications, 7. ACCESSORIES REQUIRED PER MACHINE - 7.9 "Ink Side seals- 12 pairs (six pairs for top station and six pairs for bottom station) excluding 2 pairs fitted on the machine (if side seal exists in the machine)" (p.102)	→Is it acceptable to use the Ink side seals for the numbering unit fountain? We will prepare 12 sets in total, 6 for N1 and 6 for N2.	If the ink fountain design does not have side seals in the machine offered, then the supply of spare side seals shall not be required.
43.	103	Section □, Technical Specifications, 8.	→ Vacuum pump for Feeder unit is provided.	One spare vacuum pump of suitable

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
		AUXILIARIES REQUIRED PER MACHINE - c) "One spare vacuum pump of suitable capacity." (p.103);	---	capacity is required as per tender.
44.	103	Section □, Technical Specifications, 9. DOCUMENTS REQUIREMENT - 9.1 "The supplier will have to submit following documents each in 03 sets in English language." (p.103):	→On page 100, 4.8 MAINTENANCE, it specifies four copies. Since this is duplicated, please let us know the required number of copies.	The tender conditions at Section □, Technical Specifications, 9. DOCUMENTS REQUIREMENT - 9.1 shall prevail. However, soft copy should also be provided.
45.	103 & 104	Section □, Technical Specifications, 10. Dismantling, Disassembly and Defacing offer of Existing Numbering Machines at Mysuru and Salboni Presses (p.103 & 104):	→The Standard Operational Procedure after dismantling, disassembly & defacing of the old machines is not clear in the Tender. Who will be responsible for the scrap disposal / melting?	BRBNMPL will provide the broader procedure. The successful bidder will be responsible for the scrap disposal / melting.
46.	105	Section □, Technical Specifications, Important Note "... If even after four repetitive attempts of rectification one or several of the essential performance values cannot be achieved, in the opinion of BRBNMPL, then this will be treated as a breach of agreement by successful bidder and BRBNMPL will be at liberty to decide the future course of action as BRBNMPL deemed fit ..." (p.105):	→25 days of FAT is too long and it is being big burden for supplier. We propose to shorten FAT to 5 days plus engineer support for 15 days.	Tender condition prevails.
47.	105	Section □, Technical Specifications, "The supplier has to maintain machine size - length 14.3m and width 4m (without the optional units) as this is the available area for machine installation" (p.105)	→ Please tell us how you measure the machine length & width?	<u>To be revised in the upcoming corrigendum.</u>
48.	105	Section □, Technical Specifications, "Colour of the machine: will be intimated to successful bidder at the time of placing order/LOP" (p.105):	→ We will deliver the machine in the same standard color as the existing one. If special color is required, we will submit quotation separately for the	Standard color options available with the manufacturer shall be mentioned in the technical bid. The color of the machine to be

comment a per page 15

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SL No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
			requirement.	supplied shall be decided by BRBNMPL and will be mentioned in the Lol / Agreement.
49.	106	Section VIII: Quality Control Requirements, FAT CONDITIONS - For Numbering Machine for Banknote printing, "1. Total Number of days - 25 working days" (p.106)	→ We propose FAT for 5 days plus engineer support for 15 days.	Tender condition prevails.
50.	106	Section VIII: Quality Control Requirements, FAT CONDITIONS - For Numbering Machine for Banknote printing, "2. Number of shifts / day - one or two shifts (as agreed)" (p.106):	→ Please clarify whether 2 shift operation will reduce the FAT days from 25 to 13 or whether it remains 25 days? It will be important to know before submission of bid because for attending 2 shifts / day would require 2 teams during the FAT period.	1 shift operation is considered as 1 day of FAT. Two shifts FAT operation in a day (as agreed by both BRBNMPL and the successful bidder at the discretion of BRBNMPL), will be considered as 2 days of FAT. Tender condition prevails.
51.	109	Section □, Qualification / Eligibility Criteria,- General Terms - Summary, No.10 "If resultant L1 bidder after deriving LCC, is having higher machine footprint, the price discount will be applicable for the amount as illustrated in table 7(A) of Section III (SIT)" (p.109):	→ What is the meaning of "having higher machine footprint"? Is there any comparison regarding "having higher machine footprint"? We couldn't find out "table 7(A) of Section □ (SIT)", so please kindly explain. Please delete this requirement.	The clause at sl. no. 10 of "General Terms - Summary" under "Section □, Qualification / Eligibility Criteria" is not applicable and will be amended.
52.	114	Section □, Price Schedule, "Table A, SL No.2, 3, 5, 6, 8, 9" (p.114):	→ We understand that M/s BRB is intending to keep Online Varnish Coating with UV curing & Overprint unit as optional equipment and may or may not be ordered along with the main machines. However, Table A) , Section XI, Price schedule we need to quote all the related costs for the optional equipment (Freight , Insurance as	Price Schedule will be amended suitably

SL No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
			<p>well as Installation & Commitment) included for the main machines, as a package.</p> <p>The table A do not provide option for breakup in quoting separately for the optional equipment related costs (Freight, Insurance as well as Installation & Commissioning).</p> <p>In the event M/s BRB decides to procure the optional equipment together with the machines, it is ok.</p> <p>But if BRB decides to procure these optional items at a later stage, at one time or in phases, then the related costs of Freight, Insurance, Installation & Commissioning will be confusing in future.</p> <p>We request more clarity from M/s BRB on their plan of procuring the optional equipment/s and devise a methodology for price schedule for the optional equipment so that all the prospective bidders have clear understanding for L1 determination.</p>	
53.	115	Section □, Price Schedule, Table A, Insurance, "Insurance cost quoted by the bidders at sl. No.7 of Table A should cover transit insurance cost of all machineries /equipment shipped from manufacturer's up to respective BRBNMPL (Mysuru/Salboni) premises' unloading point." (p.115):	<p>→Please amend as below: Insurance cost quoted by the bidders at sl. No.6 of Table A should cover transit insurance cost of all machineries /equipment shipped from manufacturer's up to respective BRBNMPL (Mysuru/Salboni) premises' unloading point.</p>	<u>This will be corrected in the Revised Price schedule.</u>
54.	115	Section □, Price Schedule, Table A, Insurance, "It is the responsibility of the bidder to ensure that all the machineries/equipment are packed appropriately so as to ensure the goods are received in good condition at respective BRBNMPL premises." (p.115):	<p>→Please note that the arrangement of local heavy-duty and transportation contractors will be the responsibility of BRB.</p>	Tender condition prevails.
55.	115	Section. □, Price Schedule, Table A, Insurance,	<p>→Since BRB will hold the insurance policy, BRB will be the insured</p>	Insurance till unloading point is the

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Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
-	-	"Settlement of insurance claims, if any, till the unloading point at respective BRBNMPL(Mysuru/Salboni) premises shall be the responsibility of the bidder." (p.115):	party. Therefore, please note that insurance claims must be made by BRB. Additionally, we will provide support from our side during the insurance claim process.	responsibility of the bidder and hence the settlement of insurance claims, if any, is the responsibility of the bidder. During the discussion, M/s Komori has requested to provide power of attorney with respect to insurance claim, if any. This was agreed by BRBNMPL.
56.	118	Section I, Price Schedule, Table E, "Note: a." (p.118):	→Does "Freight on Road" means that the supplier covers the transportation fees until BRBNMPL Mysuru or Salboni Plant? Additionally, FOB basis should be also available because our usual transportation of goods is FOB / CIF / CIP / CFR / CPT shipment.	to be revised in the upcoming corrigendum.
57.	118	Section I, Price Schedule, Table F (p.118):	→Please confirm followings: 1) We understand that only the health check-up (assessment of the machine condition) is quoted for Table F and parts and work based on the results of health checkup are not included. 2) Based on the results of the check, necessary parts and related work will be carried out only when the parts are ready at customer premises for an additional cost / fees.	to be revised in the upcoming corrigendum.
58.	118	Section I, Price Schedule, Table F (p.118):	→Is Health Check prices to be quoted including GST? Whether TDS applicable?	to be reviewed.
59.	123 & 124	Section XIII, Model Form of Bank Guarantee Bond for Bid Security (EMD), SI.No.2 "... do hereby undertake to pay the amounts due and payable under this guarantee without any demur, ..." (p.123 & 124):	→ Please approve the changes to the expressions in the relevant sections as outlined below.: "... do hereby undertake to pay within seven (7) business days the amounts due and payable under this guarantee without any demur, ..."	Agreed.
60.	123 &	Section XIII, Model Form of	→ Please approve the insertion of the	the jurisdiction would

Sl. No.	Tender Pg. No	Tender Clause	Clarifications sought/points raised by M/s Komori Corporation, Japan	Reply/ Clarification from BRBNMPL
			<p>So that BRB can feel free from the problem of parts supply (lead-time, order placement etc) even without the scheme of LCC.</p> <p>= Komori appropriately determines where the parts are stored, and although delivery in 3 days will not be available depending on the parts, we will aim to make delivery as quickly as possible.</p> <p>= It is possible to station our technicians in India to support the maintenance work for each plant (Salboni and Mysore) upon BRB request. We can include such request in our offer if BRB could specify the conditions such working hours, period etc.</p> <p>= Please note that parts supplied during the warranty is the parts failed under normal operating conditions as per prevailing practice and do not include parts damaged due to negligence, wrong operation, mistakes etc caused by the operator, maintenance staff etc.</p>	

Further amendments / modifications as envisaged by BRBNMPL in the tender document are listed below section-wise:

Section VII - Technical Specifications

- A. The following clause is included under "2. ESSENTIAL GENERAL SPECIFICATIONS" at page no. 93 of the tender document.

2.16. Spoilage resulting under the standard operating conditions shall be less than 0.05% of total sheets produced. The spoils generated due to malfunction of numbering machine and malfunction of numbering & ~~verification system~~ will be considered for the calculation of the spoil percentage. However, the spoils resulted due to raw material will be exclude from the calculation of spoil percentage.

BRBNS
Verification system spoils to be excluded.

- B. The following requirement is included as Sl. No. 11 at page no. 104

11. AUTO CLEANING UNIT

The Numbering machine shall be equipped with suitable Automatic Cleaning device.

Section IX: Qualification/Eligibility Criteria

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A. The following Pre-qualifying eligibility criteria is amended as follows –

Tender Page No.	SL No.	Item Categories	Existing	Amended as below
107	3	Capability – Equipment & Manufacturing facilities	The Bidder must have an annual capacity to manufacture and supply (erect/commission) at least 2 (two) of the offered quantity of Plant and Machinery / Equipment along with the related auxiliaries systems	The Bidder must have an annual capacity to manufacture and supply (erect/commission) at least 3 (three) of the offered quantity of Plant and Machinery / Equipment along with the related auxiliaries systems.

All the above points are noted and agreed by the firms.

- These minutes of pre-bid conference shall form the part of bid document / Agreement.
- Other terms & conditions and specifications of bid document shall continue to remain same.
- The above-amendments / clarifications are issued for the information to all the intending bidders.

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[Signature]

h.s.p.
S. Prasad
(Mem)

T. Towata

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