

CURRENCY NOTE PRESS: NASHIK ROAD
(A Unit of Security Printing and Minting Corporation of India Limited)
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EOI NO: 8/2022-23 Date: 30.10.2022

1. Name of the organization: Currency Note Press, Nashik (A Unit of Security Printing and Minting Corporation of India Limited)
2. Type of the organization: Wholly owned by Government of India
3. Reference No: EOI NO 8/2022-23
4. EOI Title: Design, Manufacture, Supply, Installation, Testing and Commissioning of Automatic Guided Vehicles/Rail Guided Vehicles used for Transportation of material (paper sheets) along with Automatic Storage and Retrieval System (ASRS) and Automatic arranging currency bundles, packaging, transportation, storage in ASRS and loading into the Truck on Turnkey basis.
5. Category: Automation
6. Document Fee: Nil
7. Mode of Publication: National Competitive Bidding
8. Date of Announcement: 30.10.2022
9. Last Date of Submission: 29.11.2022

Brief Intent of Requirement:

Currency Note Press (CNP)-Nashik, a unit of Security Printing & Minting Corporation of India Limited (SPMCIL) is engaged in printing of currency/bank notes as per requirement of Reserve Bank of India for Government of India. The printing/manufacturing of currency/banknotes involves different stages. The raw material required to print currency/banknotes is Paper and it is handled at every process of printing/manufacturing manually. The Paper is received from Stores and issued to different sections (offset/intaglio/numbering) for further processing and after every stage of printing process; it is stored in the Vault(s) located at different locations. This process requires manpower and manual handling equipment for material movement.

CNP intends to move the material (Paper lots) from one section to another section through Automated Guided Vehicle for strengthening security aspects, ease of work and minimal involvement of manpower for currency/banknotes handling. The proposed system shall be capable to move the material (Paper lots), track the material and facility for loading and unloading the material at various stations. Also at each section, an automatic storage and retrieval system needs shall be installed.

Further CNP intends to develop a system for automatic packing of finished product and transportation of bundle tray and packed wooden boxes through automatic guided vehicles at dispatch area. The system should be capable for automatically loading the finished product into the wooden box sequentially and after completely arrangement of finished product in the box system should capture the details and mention the brief on the box i.e. Denomination, Prefix no., Date & Time etc. Further, the box has to be nailed and strapped. After completion of process, boxes shall be unloaded on a trolley or pallet for internal movement. After receipt of packed wooden boxes, the same shall be stored at vertical storage system with auto retrieval system. Further, stored boxes shall be taken out and loaded into the truck for dispatch through automatic loading system.

These systems shall save the manpower, increase efficiency, avoid human intervention, enhance security and record the data in SAP.

Description of the complete system:

The material (Paper lots) movement from one section to another section shall be done through Automated Guided Vehicle (AGV) for strengthening security aspects, ease of work and minimal involvement of manpower for currency/banknotes handling thus resulting into reducing (complete elimination) of transportation damages of sheets. The proposed system shall be capable to move the material (paper lots), track the material and facility for loading and unloading the material at various stations along with storage facilities of Auto Storage and Retrieval System (ASRS).

Further a complete automatic assembly line will pack bundles received from Bank Note Finishing Machine directly into the boxes. Afterwards, details like denomination, prefix no., date & time etc. shall be printed on these boxes. The complete box shall be nailed and strapped. After completion of process, the box shall be unloaded on a trolley or pallet for internal movement.

The tentative process flow is described as follows:

1. Raw material i.e. Paper lots, shall be drawn from Stores and delivered to the Pre-conditioning Section through Rail Guided Vehicle with canopy.
2. At Pre-Conditioning Section (Block I), an automatic storage and retrieval system (ASRS) shall be installed to store Minimum 400 pallets. The loading of the pallet into the ASRS is through RGV system and unloading of the pallet is ASRS by AGV system (it means loading and unloading systems are separate).
3. The material shall be issued for production through AGV(s) to Block II and Block IV as input material.
4. At Block II, ASRS shall be installed to store Minimum of 450 pallets of printed output material.
5. From Block II, material shall be transferred to Block III through AGV(s) as input material in FIFO manner preferably.
6. At Block III, ASRS shall be installed to store Minimum of 330 pallets of output material. The loading and unloading of pallets for this ASRS will be done by AGV.
7. From Block III, material shall be transferred to Block IV through AGV(s) as input material.
8. At Block V, ASRS shall be installed to store Minimum of 450 pallets. The loading and unloading of pallets for this ASRS will be done by AGV.
9. The material stored in Block V ASRS will be transferred to Block VI, i.e. Finishing Machine area through AGVs
10. The output of Finishing Machine i.e. bundles will have machine printed label and bidder has to read these labels and create a data base with this information.
11. Shrink wrap bundles with label shall be serially arranged in one tray through Robotic/Cobotic System at the output of Finishing Machine. 20 such trays shall be used to collect One Million (1000 Bundles) Banknotes arranged vertically and transported by AGVs to the Automatic Packing System.

12. While arranging the tray some bundles may be taken out from the system for cross check purpose. Also, sometimes due to the defects, bundles may get rejected which will result in two cases depending on whether Lot is Complete or Incomplete. It is further explained in Detailed Technical Specification & Scope of Work.
13. Further these trays shall be transferred to packing area i.e. Block-VI through AGV(s) in descending order i.e. highest number at the top tray and lowest number in the bottom tray.
14. At final packing section i.e. Block-VI, a conveyer shall be provided to transfer the empty boxes at robotic packing area. The empty boxes shall be loaded on the conveyer manually. Further, the bag will be placed inside the empty box manually.
15. A Robotic/Cobotic arm shall pick highest number bundle from the tray and place into the box as bottom layer and next 50 bundles from the next tray shall be placed in the top layer of the box or as per process requirement. The information gathered from the bundles should be printed on the wooden box at this stage.
16. The bag which was placed earlier in the box needs to be sealed. Further an automatic loading machine will put a wooden lid on the box post which it will be transferred to Automatic/Robotic Nailing machine to fix the wooden lid and further transfer to strapping unit.
17. These strapped boxes will be transferred to the wooden box unloading station where they will be stacked on a pallet and the pallet shall be loaded on the trolley to carry them to ASRS with capacity of 4000 wooden boxes in the Block VII i.e. dispatch section.
18. An automatic truck loading system will be load these boxes in a truck after printing dispatch details on these boxes with a laser

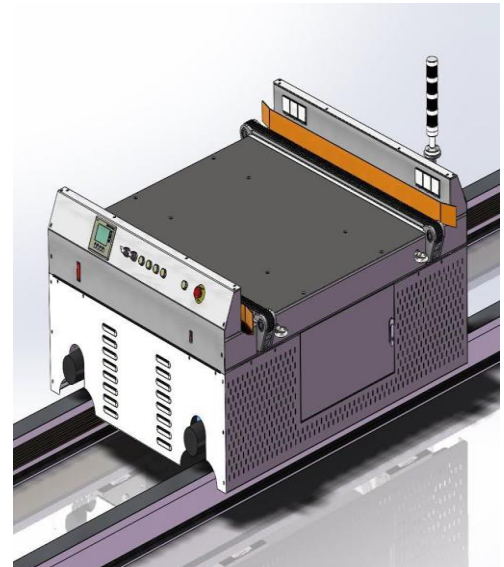
Tentative Technical Brief of the project:

a. Rail Guided Vehicle

Sr. no	Parameters	Unit	Value
1	Single Pallet Size	mm x mm x mm	LWH 800 x 830 x 1000
2	Max Payload	KG	2000
3	Section Speed (Load) min	m/s	3
4	Section Speed (No Load) min	m/s	3
5	Section Acceleration min	m/s ²	0.5
6	Drive Wheel Dia.	mm	250+-10
7	Drive Wheel Width	mm	80+-5
8	Drive Wheel	mm	935+-10
9	Track Width	mm	1100+-10
10	Rail Height	mm	172+-2
11	Track Length	m	600
12	Height From Ground	mm	725-800
13	No. of Rails	Nos	2
14	Obstacle Detection (Multidirectional)	Set	1
Track Length of 600 meter will be open to sky. Hence RGV should have a canopy			

Additional Features of RGV:

- Multi-level safety & warning zones to slowdown and stop the RGV at a safe distance.
- Warning Lights & audible warning signal while approaching a turn or an obstacle; alarm signal and alarm sound in case of an encounter.
- Emergency Stop Buttons: By activating emergency state, RGV enters emergency stop state and all motion capable parts will become inactive.
- Mechanical bumpers: Equipped with a bumper sensor (plastic, metal, or foam) in case of collision that collapses and trips the limit switch to Stop the RGV.
- Safety System: 2D LIDAR sensors safety integrity level: SIL2 (IEC 61508) and vision system.
- The image is provided for reference only.



b. Automated Guided Vehicles (AGV)

Forklift Type Slam AGV

Sr. No.	Specification(s)	Value
1	Load capacity	Minimum 1200 ± 50 Kgs
2	Guidance system	GPS/Wifi based
3	Driving, Steering system	Front/Rear wheel driving and Steering type
4	Traveling direction	Forward/Backward Sideways, and Spin turn
5	Rated speed min	60 m/min (Sideways 30 m/min)
6	Min. Elevating height	1000 mm
7	Max. Elevating speed	250 mm/sec
8	Reach stroke	Minimum 1350 mm
9	Reach speed	Minimum 250 mm/sec
10	Minimum turning radius	1500 mm (Forward/Backward 15m/min)
11	Stopping accuracy	Vehicle base end ±10mm, Fork end ±30mm
12	Transport pallet size	Maximum 1000×1000 mm
13	Charging	Suitable Automatic battery charging system (full charging in minimum 60 minutes)
14	Number of Charging Stations	Minimum Five
15	SLAM AGM Make	OTTO/GREY ORANGE/MURATEC/FIVES/AGILOX/TAIKISHA/ADDVERB or equivalent

The material movement between Block-I to Block-VII will be carried out by AGVs minimum Eight (8) numbers.

Additional Features of AGV:

- Multilevel safety & warning zones to slowdown & stop the AGV at a safe distance.
- Approach without turning.
- Slow down while turning and sidewise shifting.
- Even along a passage of 2400mm in width, it is possible to gain access to the destination without changing the posture.

- A 180° spin-turn is required in a passage of 3000mm in width.
- 360° obstacle sensor and bumpers required in order to secure high safety.

c. Block-I Pre-conditioning ASRS

The ASRS is a mother child type of ASRS system. The mother-child system will then store the pallets in the designated location. The Mother-Child System should get automatically charged during the idle period.

Actual space: L= 30 meters, W= 8.5 meters, H=6 meters

Capacity: Minimum 400 pallets

Pallet Size: L=800 x W=830 x H=1000 mm

Weight of Pallet: Maximum 600 Kg

Loading will be done by RGV and Unloading will be done by AGV

d. Block-II ASRS

The ASRS is a mother child type of ASRS system. The mother-child system will then store the pallets in the designated location. The Mother-Child System should get automatically charged during the idle period.

Actual space: L=30 meters, W=9 meters, H=5 meters

Capacity: Minimum 450 pallets

Pallet Size: L=800 x W=830 x H=1000 mm

Weight of Pallet: Maximum 600 Kg

Loading and Unloading will be done by AGV

The entire ASRS area should be fenced with chain link (1 x 1 inch) with lock & key door

e. Block-III ASRS

The ASRS is a mother child type of ASRS system. The mother-child system will then store the pallets in the designated location. The Mother-Child System should get automatically charged during the idle period.

Actual space: L=30 meters, W=10 meters, H=5 meters

Capacity: Minimum 330 pallets

Pallet Size: L=800 x W=830 x H=1000 mm

Weight of Pallet: Maximum 600 Kg

Loading and Unloading will be done by AGV

The entire ASRS area should be fenced with chain link (1 x 1 inch) with lock & key door

f. Block-V ASRS

The ASRS is a mother child type of ASRS system. The mother-child system will then store the pallets in the designated location. The Mother-Child System should get automatically charged during the idle period.

Actual space: L=30 meters, W=18 meters, H=5 meters

Capacity: Minimum 450 pallets

Pallet Size: L=800 x W=830 x H=1000 mm

Weight of Pallet: Maximum 600 Kg

Loading and Unloading will be done by AGV

The entire ASRS area should be fenced with chain link (1 x 1 inch) with lock & key door

g. Bundle Packing

Details of Bundle

- Width: 60mm to 75 mm
- Length: 120mm to 170 mm
- Bundle Height: Maximum 150 mm
- Each Bundle Weight: 900g to 1.1kg.
- The gripping system shall be able to handle the bundle without causing any damage

Each bundle will have machine printed label which has to be read to record it in a data base for entire process. In case any label is missing on the bundle, then a system is to be provided which can read the currency prefix along with first three numbers and apply the fresh label on bundle or bidder can devise their own mechanism to make this information available on the bundle and process the flow. The bundle shall have details like denomination, prefix, quantity, production date & time or any other details deemed required.

The tray used for serially arranging the shrink wrapped bundles will be of size 640 mm (L) x 460 mm (W) x 150 mm (H) and accommodate 50 bundles in it. 20 such trays shall be used to collect One Million (1000 Bundles) Banknotes arranged vertically for transportation by AGVs to the Automatic Packing System.



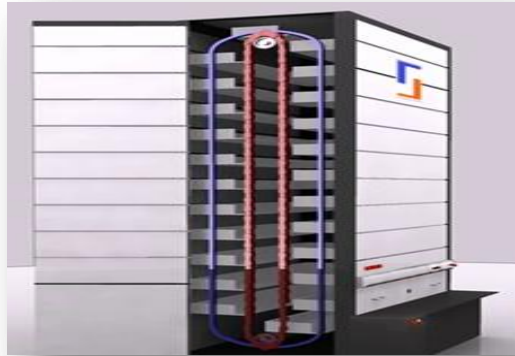
While arranging the tray some bundles may be taken out from the system for cross checking. Also, sometimes due to the defects, bundles may get rejected. These bundles shall be rectified manually and again fed to the system before shrink wrapping machine. Therefore buffer stocking of 20 numbers of trays should be provided. This will result in Two Cases as explained below.

CASE-I: When the lot is complete - When the million is complete then all 20 trays shall be stacked and will be transferred to packing area i.e. Block-VI through AGV(s) in descending order i.e. highest number at the top tray and lowest number in the bottom tray.

CASE-II: When the lot is incomplete - All the trays to be filled in sequential manner (Ascending or Descending order) as per the process requirement. While arranging the tray, some of the bundles may require more time to process in order to inspect quality of the output in previous operation. Also, sometimes due to the defects, bundles may get rejected. These bundles are rectified manually and again fed to the shrink wrap station of the BFS/Finishing machine.

During the process, those trays which are not completely filled during the shift due to some reason shall be parked in the vertical reserve rack and whenever manually rectified bundle are put back into the system then automatically system will recall the said tray and place the bundle at designated positions.

A typical conveyer racking system as shown below to accommodate 20 trays shall be provided which should be compatible with auto retrieval system as and when required basis. The image is for the reference purpose only.



After completion of such parked lot, the same shall be transferred to packaging area i.e. Block-VI through AGV(s) in descending order i.e. highest number at the top tray and lowest number in the bottom tray.

At final packing section i.e. Block-VI, a conveyer shall be provided to transfer the empty boxes of dimensions 710 x 620 x 330 mm and weighing 15-20Kg approximately at robotic packing area. These empty boxes shall be loaded on the conveyer and a bag will be placed inside manually.

The top lid of the empty boxes shall be loaded into a separate loader station and from there the lid shall be transferred automatically as and when required basis.

The stacked trays coming from Block-V shall be loaded at tray loading station. The following image is for the reference purpose only.



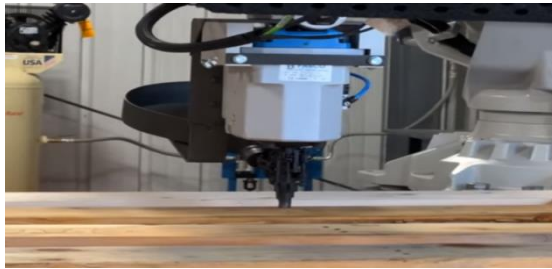
Each tray consists of 50 bundles shall be loaded at Robotic/Cobotic station. The Robotic/Cobotic arm shall pick highest number bundle from the tray and place into the box as bottom layer and next 50 bundles from the next tray shall be placed in the top layer of the box or as per process requirement. The gripper of the arm should not cause any damage to bundles while handling them.

Thus the Robotic/Cobotic System shall sort and pack bundles into boxes in two layers (highest number at bottom layer and lowest number at the top layer. The firm should provide a system to print the information like denomination, prefix, quantity, production shift, date & time or any other details deemed required which is gathered from the bundles placed in the box.

The bag which was placed earlier in the box needs to be sealed. The firm should provide the system to seal the bag before putting the lid of the wooden box. Further the wooden box lid is to be put on the box automatically which comes from the lid loading station and the wooden box shall be transferred to the Automatic/Robotic Nailing Machine to fix the lid on the wooden box.

h. Automatic/Robotic Nailing Machine

This machine should nail the top lid of the wooden box. The nailing should be from the top as well as from the sides. The following image is for reference purpose only.



i. Fully Automatic Weighing & Strapping System

The nailed wooden boxes are sent to weighing and automatic strapping system to strap two straps from each side of the box.

Basic Features of Fully Automatic Strapping Machine:

- Adjustable conveyer height
- Fold-out belt conveyer system
- Four swivel castor with belts
- Closed strap arch system
- Heat seal
- Automatic strap feeder
- Automatic strap and ejection
- Strap loop ejection for cycles without product
- Cycle counter
- Electronic control system with microprocessor + PLC, free memory capacity for peripheral modules
- Machine stop button
- Dispenser position: Side mounted
- Electrical power cable
- Photocell for detecting and positioning the package
- Detection for strap not in position
- Detection for no strap

The following image is for reference purpose only.



After weighing, each wooden box should be stamped/printed on before transferring to the unloading station where the boxes shall be stacked on a pallet (either 5 boxes or 10 boxes) and the pallet shall be loaded on the trolley. This loaded trolley shall be sent to dispatch section for auto storing in ASRS at Block-VII through AGV.

j. Block-VII ASRS

The ASRS is a mother child type of ASRS system. The mother-child system will then store the pallets in the designated location. The Mother-Child System should get automatically charged during the idle period.

Actual space: L=70 meters, W=20 meters, H=4 meters

Capacity: 40000 wooden boxes (LWH 710 x 620 x 330 mm)

Weight of one box: 100 to 125Kg

Loading and Unloading will be done by AGV/Trolley

At dispatch section, suitable laser/inkjet printing facility should be available for printing dispatch details on wooden boxes. Further, at dispatch section, these pallets are stored and as per the requirement basis, they will be taken out for final dispatch.

k. Automatic Truck Loading System

An automatic truck loading system is to load a truck with 40 to 50 Nos. of Wooden Boxes in two layers. The following image is for reference purpose only.



Control & Hardware of ASRS

- WMS (Warehouse management system) main workstation with required configuration – 1 no.
- The System should be controlled through the reputed PLC (preferably from SIEMENS/ABB/OMRON/ALLENBRADLY/MITSUBISHI/FANUC/SCHNEIDER/ROCKWELL/BOSCH/BECKHOFF/FUJI/TOSHIBA/EATON).
- Supervisory control client station PCs – 7 Nos. as per design.
- Printer for MIS reports – 7 Nos.
- UPS for server (30 minutes backup) for workstation + PLC network stability operations.
- Any other item/equipment required for the Schedule-I project to be provided.
- In case of communication failure in ASRS, manual override operation provision should be provided with authorization interlocks (three levels).
- ANDON system for each ASRS to be provided.
- Data required in SAP ERP of CNP Nashik format should be pushed/pulled to Centralized server in CSV file as per schedule by the bidder. The data consist of real time production data and shift production data.

Software of ASRS

The Software of Warehouse Management System (WMS) for ASRS shall include following 3 major components:

- Inventory Control Software (ICS) Module: This module shall manage the inventory of the entire material stored in ASRS and has the database of all transactions.
- Location Management Software (LMS) Module: The Location of each material and its status shall be continuously monitored and controlled by the location Management software module.
- Handling Control Software (HCS) Module: Handling Control software shall monitor the movement of the equipment and controls the functions of actual process of traveling, hoisting, forking etc.

Note: The software provided shall have password protected multiple user options with different privileges as admin and normal user. Data backup and clean up facilities shall be provided. The following are the reports, which shall be generated from Warehouse Management System. Any other report if required may be added during detail engineering.

- Full inventory data wise report
- Item wise data report
- Location wise report
- User wise data report
- Storing report (History Data)
- Issuing report (History data)
- Filled Pallet status report

Data of above operations shall be stored with date and time stamp. History of these operations will be stored for 5 years (minimum) per shift basis. Format of these

reports shall be finalized in coordination with CNP, Nashik after award of contract. However general formats like pdf, word or excel shall be available as options.

Safety Features

Safety of system is of utmost importance. Hence, Bidder shall confirm adherence to all the following features failing which, their offers are liable to be rejected.

Electrical Safety:

- Electrical switches that detect the end of the aisle traveling zones, resulting and ensuring safe operation at low traveling speeds at the end of the aisle and cut off traveling movements at the extreme position. Two Switches, one for PLC logic and another one for Hardware logic shall be provided.
- Interlocking of traveling and forking movements.
- Sensors on lift to detect status of storage location (free/ occupied) on the storage system.
- The system should be provided with LOTO system.

Mechanical Safety:

- End of aisle shock absorbers/bumpers for lift.
- End of travel buffer for the Lifting Carriage.
- Anti-tilt mechanism for lift is extremely essential.
- Resilient Rubber Pads on adjustable clamps for vibration dampening.
- ASRS shall be provided with enclosure/fencing with doors as stated above.
- Optical curtain shall be provided for personnel safety. The same shall be provided at the place where material is picked up and delivered to avoid human interaction.

Safety through Software:

- Necessary speed control at the end of the aisle through PLC and drives.
- "Time Out" logic for critical activities.
- Speed, Acceleration & Deceleration control through combination of PLC & drives.
- When operator enters through unauthorized place during normal operation, the system should stop.

Electrical, Instrumentation & Control

Control Panel

- Control panel shall have facility for required operation with proper interlocks for safe operation.
- Sufficient space and accessibility to the control panels shall be provided to carry out the maintenance comfortably.
- Power panel and control panel with front opening door and front mounting of component and front operation.
- The control panel shall be preferably RITTAL/HOFFMAN/STAHL with protection of IP-54.
- The control panel shall be air-conditioned where PLC and Drives are used.

- The control panel shall be designed for 440V \pm 10%, 3 phases, 50 Hz \pm 3%, 4 wire system as per applicable standards.
- The panel and equipment's shall be provided with suitable earthing. Instrument and power earthing should be separate.
- The panel shall be illuminated with IP54 light fittings.
- The incoming RYB LED indication lamps shall be provided in addition to multifunction meter.
- The motor protection shall be through MPCB.
- Control supply shall be through isolation/Control transformer with suitable safety at primary and secondary. A separate isolation/control transformer shall be provided for feeding control supply to the instruments. MCB is to be provided at incoming and outgoing terminals of the isolation/control transformer. Panel should also have a separate additional isolation/control transformer with same rating.
- Operating voltage less than or equal to 24VDC is to be used only for field instruments and sensors, not for power contactors.
- Audio & Visual alarm to be provided for alarms, faults, sequence failure etc as per process requirement.
- Emergency switch is to be provided on main panel, operator control desk, at equipment and other required locations for safety
- Control On switch should be provided in addition to Emergency switch at main panel and at operator station.
- Alarms acknowledge, alarm test and alarm reset push button are to be provided on the operator station and main panel.
- Control panel shall be provided with panel light interlocked with the panel door along with the door lock. Power supply to the panel light should be through separate MCB.
- Two Nos. of utility plug and socket for 230VAC/ 5A should also be provided inside the panel with separate MCB protection.
- Each junction box, console, panels and Instruments shall be provided with proper required earthing.
- Dedicated earthing system shall be installed for the supplied system. Copper earthing strip should be provided from earthing pit up to the panels with proper connection at earthing terminals at control panel body, doors and at required equipment/system.
- Double earthing terminals shall be available to connect the panel to external grid.
- Flexible earthing connection shall be provided for the doors.
- System shall be earthed properly through copper strips.

Motors

Motors used are of high energy efficient of IE 3 Standard.

BILL OF MATERIAL:

Sr. No.	Item	Qty.	Remark
1	RGV Battery operated and charging to be done at the loading/unloading place and two separate charging stations be provided. Capacity 02 Ton, 2 Pallet per RGV	02 Nos.	RGV should be covered with fixed Canopy as it will be open to Sky
2	Buffer parking place for RGV to be provided at loading and unloading station	02 Nos.	
3	Track length	600 Mtrs.	
4	SLAM AGV Forklift Type	08 Nos.	
5	AGV Charging Station	08 Nos.	
6	Boom Barrier	04 Nos.	For Road Crossing
7	Loading Point H = 1 meter		For RGV Loading
8	Foundation work of ASRS is in bidder scope		
9	CNP will provide concrete floor half feet for RGV.		
10	CNP will provide Epoxy flooring for AGV movement area		
11	ASRS of different capacity	5 Nos.	
12	Required earthing including pit for the system to be arranged by the Bidder		
13	High Speed Shutters with interlocking system to be provided by the bidder for RGV movement at entry and exit point	01 No.	At ASRS room
14	High Speed Shutters with interlocking system to be provided by the bidder for AGV movement at entry and exit point at each block	11 Nos.	

FAT (Final Acceptance Test):

- Certificates of ASRS Stability and Load Carrying capacity Certificate to be provided by the bidder.
- Certificate of AGV test report and RGV test report to be provided by the bidder.
- The entire operation will be carried out for 15 working days (each day 8 hours operations) as per the tender/PO specifications. In case of any problem occurred on particular day same shall be shifted to next day.

Note:

- Payment Term: The Purchaser will make a payment of 50 percent of delivered Bill of Material, 30% after installation & commissioning and 20% after FAC (Final Acceptance Certificate). The site clearance will be decided jointly by Purchaser and Bidder. Further, site clearance requirement from Purchaser will be clearly mentioned in the bidding document by the bidder.
- The bidder(s) if desires to visit CNP-Nashik to understand the scope of work before submitting EOI documents will be permitted during the weekdays.

The EOI submitted by the firm should cover the following:

- a. Detailed technical specifications in details of the proposed facility/system.
 - b. Layout and dimensions of the proposed equipment/system.
 - c. Process flow chart.
 - d. Detailed project report.
 - e. Customers list and Purchase Order copies of the customers to whom similar kind of equipment/ system have been supplied in the past with details of the equipment/ system and their addresses along with phone, fax and email addresses and performance report from them.
 - f. Time required for successful installation and commissioning of the equipment.
 - g. The participating firm must also note requirement of warranty for 3 years and after completion of warranty, CAMC for seven year. CAMC will not be considered for L1 ranking.
 - h. The participating firm must also note requirement of after sales service for 7 years after successful completion of warranty period.
 - i. Budgetary offer for the proposed system must broadly include taxes/duties FOR Currency Note Press, Nashik basis.
10. Important Instructions to Bidders for submission of the documents:
- a. The interested & experienced bidder should also be required to submit along with Expression of Interest, a list of customers to whom they have supplied such equipment/ systems with details and performance report from their clients.
 - b. The participating bidder shall have carried out the similar project in last 7 years ending March 2022. The firm shall provide Purchase Order copies of the customers to whom such equipment/ system have been supplied in the past 7 years with details of the equipment/ system and their addresses along with phone, fax and email addresses and performance report from them.
 - c. The Participating bidder should give a declaration that they have not been blacklisted or debarred for dealing by Government of India or any Government in the past.
 - d. The documents in support of Expression of Interest need to be submitted duly signed by the authorized representative of the applicant with name and designation of the signatory.
 - e. The documents in support of Expression of Interest (viz. Supply order details/Installation Certificates/ Addresses of customers and their contact numbers) need to be submitted duly signed by authorized representative of the applicant.
 - f. The principal bidder will have to directly participate in this EOI. Participation of any authorized firm by any principal bidder will not be considered.
11. For the purpose of evaluation of EOI offers, each interested participant will have to submit the following details:
- a. Project Experience of similar projects in last Seven Years ending 31.03.2022
 - 3 Nos of min Rs. 18 Cr. in value OR
 - 2 Nos of min Rs 22.5 Cr. in value OR
 - 1 No of min Rs 36 Cr. in value
 - b. Confirmation of adherence to the Description & Technical Brief given by CNP, Nashik in this EOI.

12. Following are the details of this procurement process:
 - At first, the Expression of Interest is being floated for above mentioned instrument.
 - The firms intending to participate in the EOI have to present a detailed presentation at CNP, Nashik regarding their offers of equipment/system and the cost for such visits shall be borne by firms only.
 - After evaluation of the responses received, a Tender will be floated incorporating all the terms and conditions, specification as per buyer's requirement. An Open tender will be floated for active participation of bidders.
13. The Bid shall be submitted in English Language only. The Authenticated copies of the documents in support or applicant's claim may be submitted in English Language.
14. The bidders will be required to give a presentation of the offered equipment/system by them on mutually agreed date after submission of the offer and factory visit may be arranged, if required.
15. The bidder / applicant should submit the detailed brochures / leaflets / specification of the system offered.
16. The audited balance sheet and Profit & Loss Account statement for last three financial years ending 31.03.2022 are to be submitted along with the proposal i.e. for 2019-20, 2020-21 & 2021-22. The bidder should not be in loss for more than one year and net worth should not be eroded by more than 30% in last three financial years ending 31.03.2022.
17. Each interested participant will have to submit relevant Quality Accreditations and a Brief of how After Sales Support and Product Support will be provided.
18. The dully filled details along with supporting documents should be sent in a sealed envelope super scribing "Design, Manufacture, Supply, Installation, Testing and Commissioning of Automatic Guided Vehicles/Rail Guided Vehicles used for Transportation of material (paper sheets) along with Automatic Storage and Retrieval System (ASRS) and Automatic arranging currency bundles, packaging, transportation, storage in ASRS and loading into the Truck on Turnkey basis". The same may be submitted in person or through courier/ registered post/ speed post so as to reach the following address on or before the prescribed date and time.
19. 'MSME', 'Startup' and 'Make in India' government guidelines will be applicable.

The Chief General Manager,
Currency Note Press,
Jail Road, Nashik Road-422 101
Maharashtra, India
Phone No. +91 253 2454493, Fax No: +91 253 2464100
Email: purchase.cnpnashik@spmcil.com

Last date and time for receipt of Expression of Interest: 29.11.2022 - 14:30 Hours

Date and time of opening of Expression of Interest on: 29.11.2022 - 15:00 Hours

Place of opening of Expression of Interest: Currency Note Press, Jail Road, Nashik Road 422 101, Maharashtra, India

(V. KIRAN KUMAR)
JT. GENERAL MANAGER (MATERIAL)
FOR CHIEF GENERAL MANAGER