

## INDIA SECURITY PRESS

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

Wholly owned by Government of India

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1. Name of the organization: India Security 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. EOI Reference No: EOI/Automatic Shrink-Wrapping Machine/22/2024 dated 18/12/2024.
4. EOI Title: Expression of Interest (EOI) for the procurement of State-of-the-art fully Automatic Shrink-Wrapping Machine.
5. Category: Non-Security
6. Sub-category: Capital Item
7. Date of Announcement: 18/12/2024
8. Last date for submission: 14:30 Hrs (IST) on 17/01/2024.
9. The Chief General Manager, India Security Press, Nashik invites Expression of Interest from experienced and reputed manufacturers for Automatic Shrink - Wrapping machine.

TECHNICAL REQUIREMENTS FOR procurement of State-of-the-art fully Automatic Shrink-Wrapping Machine.

### **Statement of Requirement:**

A State-of-the-art fully Automatic Shrink-Wrapping Machine shall be capable to Shrink Wrap with highest quality and speed with requirement of minimum manpower. The System shall be designed as per the technical specifications and required process flow for the full utilization of every station of integrated System/Machine.

The System shall be so designed that it shall have highest level of productivity in terms of both in quantity as well as quality. The system shall be capable to shrink wrap minimum 30 packets per minute. The System shall have various monitoring & control system as given in the specifications to maintain the quality and quantity of the product as well as minimize the waste percentage.

The State-of-the-art fully Automatic Shrink-Wrapping Machine shall have different sequential processing station for easy handling of the product to ensure continuous process. Based on the functional details of the product the System shall be designed. Based on the Statement of Requirement (SOR), the system shall be suitable for following product configurations and process flow.

## PRODUCT CONFIGURATION OF e-PASSPORT BOOKLET PACKETS:

Input Booklet Packet (L x W)	: 125 mm x 88 mm $\pm$ 0.3 mm
Input Booklet Packet Thickness (booklets each)	: 35 mm to 80 mm (Packet of 10/20 booklets each)
Output Booklet Packet (L x W)	: 125 mm x 88 mm $\pm$ 0.3 mm
Output Booklet Packet Thickness (each)	: 35 mm to 80 mm (Packet of 10/20 booklets each)
Minimum final output	: 30 Packets per minute
Shrink Film	: Double Folded Polyolefin Shrink film Width 200-250 mm(Technical Specs in Part 2)

### Part 1: GENERAL FUNCTIONAL REQUIREMENT & PROCESS FLOW:

1. The System/ Machine should have ergo dynamically designed, smooth & sturdy Fully automatic & non-stop Feeder shall be provided to packets of above-mentioned dimension with packets of 10/20 booklets or more as and when required.
2. The System primarily should consist of major stations like Feeders for Booklets and Shrink Film, Sealing & Cutting Station and Shrinking/ Heating Tunnel or suitable mechanism with fully automatic and integrated arrangements.
3. The system should have provision of smooth, separate and trouble-free shrink film opening stations with suitable forwarding mechanism and rewinding or suitable provision for remaining waste film after L or suitable Sealing.
4. The booklet Packet transport system & holding mechanism shall be designed in such way that the booklet shall not be wedged /damaged during the process.
5. The Shrinking/ Heating Tunnel or suitable mechanism with fully automatic and integrated arrangements should be equipped with the adjustment of time and temperature to avoid any adverse effect of temperature on the Passport Booklets.
6. A delivery System shall be designed in preferably such a way that the booklets packets, are stacked in sets or brought in suitable arrangements for easy handling by the operator.
7. A Conveyor System of the delivery shall be capable to stack at least 20 booklets packets in horizontal stacking orientation on it. A packet of 10/20 or more booklets, or as the case may be, shall be collected by the operator from the delivery stack.
8. Features: Robust and Reliable Heating Mechanism, Faster response time and speed, User friendly adjustment and operation, Separate tool kit for easy maintenance and Heavy Duty Heater etc.
9. Easy Loading and unloading of shrink film in both the direction, Caster Wheels, suitable mechanism for easy shop work, suitable kind of Tension controller inside the machine, suitable kind of Smoke/fume exhaust system, Low maintenance cost etc.
10. The entire system shall be provided with Industrial grade Control Consoles / HMIs, conforming to international standards with latest OS and User friendly.
11. The Application Software shall be user friendly and open-ended. The System shall be equipped with suitable screen menu driven self-explaining operation interface with audible & visible warning and error signals & messages on the Control consoles/HMIs.
12. The Machines & Systems shall be suitable to operate 3 Phase, 415 V  $\pm$  6%, 50Hz, TPN power supply.

13. Provision for easy and quick changeover facility on varied products dimensions.
14. There will be the provision of carry out pre-dispatch inspection of the entire system for a suitable period, at the worksite of the successful bidder at Purchaser's cost. The purchaser will bear the cost of to & fro journey and accommodation.
15. The firm shall depute their Engineers / Technicians to India Security Press, Nashik for installation and commissioning of the machines for the required period of time at their own cost. The firm has to impart training to Operational & Maintenance personnel of ISP after commissioning at ISP's worksite.
16. After successful installation, commissioning and training of the system and their auxiliary equipment's, the FAT (Final Acceptance Test) will be carried out for a suitable period to assess the machine performance, conforming to the machine configurations, rated machine speed, output etc.
17. The firm should provide one year warranty for the entire system.
18. One copy of Operating Manual in English (Soft copy and Hard Copy Both), Electrical Drawings etc. to be provided along with each machine.

## Part 2 : Specification of Double Folded Polyolefin Shrink film 200-250mm

- (1.1) Width : Double folded 200-250 mm, Total width 400-500 mm.
- (1.2) Thickness : 20 microns (+/-) 1 micron
- (1.3) Transparency :95% or more.
- (1.4) Length per roll : 1000 meters
- (1.5) Core Dimension : Standard
- (1.6) Shrink temperature : The film should shrink between Temperature 150-200°C on a running shrink pack machine tunnel.
- (1.7) Weight {Total weight of One Roll} : 9.7 Kgs (+/-)100 gms (inclusive of inner core, weight of inner core=500 gms (+/-)50 gms.
- (1.8) Needle Perforation : 60 to 70 nos. (in 10 sq. cm).

## 11. Pre-Qualification Criteria:

The intending bidders shall submit all technical details, capabilities, and experience for Design, Supply, Installation, Testing and Commissioning of similar type of Automatic Shrink-Wrapping Machine.

The bidders should give a declaration that they have not been blacklisted or debarred for dealing by Government of India or any Government / PSU/ Reputed organisation in the past.

The documents in support of Expression of Interest need to be submitted duly signed by authorized representative of the company.

The interested bidders should also submit along with Expression of Interest a list of parties to whom they have supplied similar types of "Automatic Shrink-Wrapping Machine" with details and performance report from their clients.

The interested bidders shall also submit copies of Audited financial statement for the last five years i.e. 2019-2020, 2020-2021, 2021-2022, 2022-23 & 2023-24.

12. The bidder should also confirm specifically that:
  - (a) Applicant is competent and legally authorized to submit and/ or to enter into legally binding contract.
  - (b) The details Supply and Installation of similar type of “Automatic Shrink-Wrapping Machine” by them during last five years i.e. 01st January 2019 to 31st Mar 2024.
  - (c) The firm should confirm their annual installed capacity for supply of “Automatic Shrink-Wrapping Machine”.
  - (d) Applicant will absolve the purchaser against any infringement of patent rights and other contract provisions.
13. The duly filled details along with supporting documents and budgetary offer with respect to supply of “Automatic Shrink-Wrapping Machine” should be sent in a sealed envelope superscribing “Expression of Interest for “Automatic Shrink-Wrapping Machine”.
14. The bidder has to give the detailed presentation on their offered product either through VC or in person of ISP Premises.

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 as under:

The Chief General Manager,  
India Security Press,  
Nashik-422 101  
Phone No 0253 2402219/ 0253 2402435  
Fax No 0253 2462718  
Email: purchase.isp@spmcil.com

Last date and time for receipt of Expression of Interest: 17/01/2024 at 14:30 Hrs. (IST).

Date and time of opening of Expression of Interest at 15:00 Hrs. (IST) on 17/01 /2024.

Place of opening of Expression of Interest

India Security Press,  
Nashik Road 422 101  
Maharashtra, India

15. Delay due to postal/Courier etc, will not be entertained. Expression of Interest received after the due date and time will be rejected.

Addl. General Manager (M)  
for Chief General Manager  
India Security Press,  
Nashik Road-422101