



Tender Number: 6000018518

INDIA SECURITY PRESS,
(A UNIT OF SECURITY PRINTING & MINTING CORPORATION OF INDIA LTD.)
WHOLLY OWNED BY GOVERNMENT OF INDIA
Nashik Road-422101 (Maharashtra)
(ISO-9001:2008 & 14001:2004 Certified Company)
Miniratna Category-I, CPSE
Tel. No: +91-253-2402200; Fax No: +91-253-2462718, 2466389
E-mail: purchase.isp@spmcil.com Web: https://ispnasik.spmcil.com
CIN: U22213DL2006GOI144763 GSTIN: 27AAJCS6111J2Z7

PR Number	PR Date	Indenter	Department
12004996	18.07.2023	Passport	APMS

Not Transferable

Security Classification: Unclassified

Tender document for: Supply, Installation, Testing, Commissioning & Training of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD, Qty.: 1 No.

Global Tender No.6000018518/37/SY-15-13(E-MRTD)/2022

Date: 09.10.2023

This Tender Document Contains _____ Pages.

Details of Contact person in SPMCIL regarding this tender:

Name: Ashok Sharma

Designation: Jt. General Manager (Materials)

Address: India Security Press, Nashik Road, Pin-422101



Disclaimer

The information contained in this Bid Document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of the Security Printing and Minting Corporation Limited (hereafter referred as the "Purchaser") or any of its employees or associated agencies, is provided to Bidder(s) on the terms and conditions set out in this Bid Document and such other terms and conditions subject to which such information is provided.

This Bid Document is not an agreement and is neither an offer nor invitation by the Purchaser to the prospective Bidder(s) or any other party hereunder. The purpose of this Bid Document is to provide the Bidder(s) with information to assist them in the formulation of their proposal submission. This Bid document does not purport to contain all the information Bidder(s) may require. This Bid document may not be appropriate for all bidders, and it is not possible for the Purchaser to consider particular needs of each Bidder. Each Bidder should conduct its own investigation and analysis, and should check the accuracy, reliability, and completeness of the information in this document and obtain independent advice from appropriate sources.

Information provided in this Bid Document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Purchaser, its employees and other associated agencies accept no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

This Bid document and ensuing bids; communications and Contracts would alone determine the legal and commercial relationship between the bidders/ contractors and the Purchaser. No other Government or Purchaser's document/ guidelines/ Manuals including its Procurement Manual (which are for internal and official use of its officers), have any locus standii in such a relationship. These documents/ guidelines/ Manuals therefore should not be cited or referred in any legal or dispute resolution or grievance redressal proceedings.

The Purchaser, its employees and other associated agencies make no representation or warranty and shall have no liability to any person, including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Bid Document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the Bid Document and any assessment, assumption, statement or information contained therein or deemed to form part of this Bid Document or arising in any way for participation in this Bid Stage.

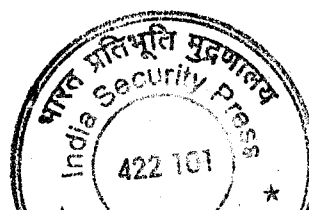
The Purchaser, its employees and other associated agencies also accept no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder(s) upon the statements contained in this Bid Document.

The Purchaser may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this Bid Document.

The issue of this Bid Document does not imply that the Purchaser is bound to select Bidder(s) and the Purchaser reserves the right to reject all or any of the Bidders or Bids or to decide to drop the procurement process at any stage without assigning any reason.

The Bidder(s) shall bear all its costs associated with or relating to the preparation and submission of their Bids including but not limited to preparation, copying, postage, delivery fees, expenses associated with any submission of samples, demonstrations or presentations which may be required by the Purchaser or any other costs incurred in connection with or relating to their Bids. All such costs and expenses will remain with the Bidder(s) and the Purchaser shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder(s) in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

This disclaimer forms an integral part of the Bid document and shall supplement but not supplant the provision of the Bid Document.





Tender Number: 6000018518

SECTION I: NOTICE INVITING TENDER (NIT)

INDIA SECURITY PRESS

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

Wholly owned by Government of India

Nashik Road – 422 101 (Maharashtra) Tel No 0091 2532402200, Fax No 00 91 253 2462718

Website: www.spmcil.com, email: purchase.isp@spmCIL.com

Global Tender No.6000018518/37/SY-15-13(E-MRTD)/2022

Date: 09.10.2023

1. Sealed tenders are invited from eligible and qualified tenderers for supply of following goods and services:

Schedule No.	Brief Description of Goods/ services	Quantity (with unit)	Earnest Money (in Rs.)	Remarks
1	State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD.	01 No.	INR 27,15,000 or USD 33069 or EURO 29469 or JPY 4609508	---

Type of Tender (Two Bid/ PQB/ EOI/ RC/ Development/ Indigenization/ Disposal of Scrap/ Security Item etc.)	Three bid (Single Stage) i.e. (PQB + Technical Bid + Price Bid) International Competitive Bidding (ICB)
Security Classification	Non security
Price of the tender document:	INR 5900 or USD 72 or EURO 65 or JPY 10016
Authority in whose favour all tender related financial instruments (FD, DD, Banker's cheque etc.) are to be made	India Security Press, Nashik Road, Unit of SPMCIL
All Financial Instruments to be payable at:	Payable at Nashik
Dates and place of issue of tender documents:	From 10.10.2023 to 28.11.2023 during office hours At ISP, Nashik
Place of Pre-Bid Conference	Conference Hall, ISP, Nashik on 31.10.2023 at 11.00 Hrs IST
Place, Time, and date before which written queries for Pre-bid conference must be received.	Purchase Department 18.00 hours on or before 26.10.2023
Closing date and time for receipt of tenders	28.11.2023 up to 14:30 Hrs IST
Place of receipt of tenders	Green Gate, India Security Press, Nashik Road-422 101, Maharashtra, India
Time and date of opening of tenders for 1 st envelop (PQB Bid). Place, Time, and date of Opening of Technical Bid & Price Bid (Financial Bid) would be intimated later on	15:00 Hours IST on 28.11.2023
Place of opening of tenders	Purchase Section, India Security Press, Nashik Road-422 101, Maharashtra, India
Nominated Person/ Designation to Receive Bulky Tenders (Clause 21.1 of GIT)	Manager (HR), India Security Press, Nashik Road: 422101.
Officer to be contacted for clarifications/ help:	Jt. GM (Materials) India Security Press, Nashik Road

2. Eligibility to participate as per Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Ministry of Finance, Department of Expenditure, Public Procurement Division's Orders (Public Procurement 1, 2 and 3) F.No.6/18/2019-PPD dated 23rd/24th July 2020 (or any



further amendments thereof) regarding eligibility of bidders from neighbouring countries shall apply to this tender.

3. Please note that SPMCIL reserves its right to grant Purchase preferences in accordance with Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018 (as amended/ revised).
4. Interested tenderers may obtain further information about this requirement from the above office selling the documents. They may also visit our website www.spmcil.com or <https://ispnasik.spmcil.com> for further details.
5. Tenderer may also download the tender documents from the web site mentioned above and submit its tender by utilizing the downloaded document, the bidder must not make any changes to the contents of the documents, except for filling the required information. A certificate to this effect must be submitted by the bidder in the Tender Form (Section X).
6. Tenderers shall ensure that their tenders, duly sealed and signed, complete in all respects as per instructions contained in the Tender Documents, are dropped on or before the closing date and time indicated in the Para 1 above in the tender box located at the address given below, failing which the tenders will be treated as late and rejected. Tenders may also be sent through post at the address as above. However, Purchaser will not be responsible for any postal lapses or delays in receipt of the documents. In case NIT/ SIT provide for uploading of bids to nominated eProcurement portal, bidders must upload their bids along with scanned copies as required enclosures (including proofs of cost of Tender Documents and EMD as applicable - unless an online payment gateway is provided in the instruction) as per instructions given in this regard.
Original copies of such scanned uploaded required enclosures must reach in physical form within the date and place as provided in such instructions, otherwise their uploaded bid, would be declared as unresponsive.
7. In the event of any of the above-mentioned dates being declared as a holiday/ closed day for the purchase organization, the tenders will be sold/ received/ opened on the next working day at the appointed time.
8. The tender documents are not transferable.
9. The bidder, their affiliates, or subsidiaries - including subcontractors or suppliers for any part of the contract - should not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations. A declaration to this effect shall be submitted by the bidder in the Tender Form (Section X).
10. Bidders are requested to attend a pre-bid conference for clarification on technical specifications and commercial conditions of the Tenders, on the time, Date and Place mentioned in Para 1 above, Participation in the Pre-bid conference is restricted to prospective bidders who have been invited to participate in the tender or who have purchased the tender documents. Participation is not mandatory, however, in case a bidder chooses not to participate (or fails to do so) in the pre-bid conference, it would be assumed that they have no issues regarding the Technical/ commercial specifications/ conditions.
11. EMD amount mentioned in Section VI - List of Requirements shall be furnished in one of the following forms: a) Account Payee Demand Draft or b) Fixed Deposit Receipt or c) Banker's cheque or d) Bank Guarantee; in acceptable form, otherwise the tender will not be accepted in any case. The demand draft, fixed deposit receipt or banker's cheque shall be drawn on any scheduled commercial bank in India, in favour of Account and place of payment specified in the Para 1 above. In case of bank guarantee, the same is to be provided from/confirmed by any scheduled commercial bank in India as per the format specified under Section XIII in these documents.
12. ALL THE PARTICIPATING BIDDER FIRMS ARE REQUESTED TO ENSURE THEMSELVES THAT THEY SHALL SUPPLY THE COMPLETE SYSTEM STRICTLY AS PER THE TENDER TECHNICAL SPECIFICATIONS AS WELL AS

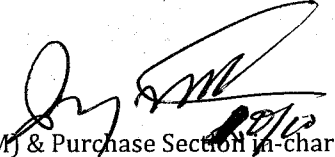


Tender Number: 6000018518

DELIVERY SCHEDULE. NON COMPLIANCE WITH DELIVERY SCHEDULE MAY LEAD TO SANCTION BESIDES ANY ADMINISTRATIVE ACTION IN LINE WITH CLAUSE 23.2 OF SECTION IV: GENERAL CONDITION OF CONTRACT (GCC) OF THE TENDER DOCUMENT.

13. SPMCIL has appointed following independent external monitors for the Integrity pact in consultation with Central Vigilance Commission (CVC):

<p>(i) Shri. Anil Kumar, IAS (Retd.) House No.19, Defence Enclave, (near Preet Vihar Metro Station), Vikas Marg, Delhi-110092. Email ID : anilsec1953@gmail.com</p>	<p>(ii) Ms. Nirmal Kaur, IPS (Retd.) D-I/12, Nepal House, Doranda, Ranchi-834002. Email ID : nirmalkaur1983@gmail.com</p>
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Jt. General Manager (MM) & Purchase Section in-charge
For Chief General Manager
India Security Press, Nashik

Address for dropping the tender documents

Green gate,
India security press, Nashik Road-422 101,
Maharashtra, India



SECTION II: GENERAL INSTRUCTIONS TO TENDERERS (GIT)

PART I & II: GENERAL INSTRUCTIONS Applicable to all Types of Tenders:

Please refer the link to <https://spmCIL.com/uploaddocument/GIT/new.pdf> for further details.

GIT (Total pages: 61)

BIDDERS ARE REQUESTED TO DOWNLOAD 61 PAGES BY CLICKING THE ABOVE SAID LINK AND SUBMIT THE SAME DULY STAMPED AND SIGNED ALONG WITH TENDER DOCUMENT.



SECTION III: SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

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

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail. (Clauses of GIT listed below include a possibility for variation in their provisions through SIT. There could be other clauses in SIT as deemed fit.)

Sl. No.	GIT Clause No.	Topic	Modify/ Substitute/ Supplement	SIT Provision
1	3	Eligible Tenderers		As Applicable
2	3.4	Eligible Goods and Services (Origin of Goods)		As Applicable
3	6.1	The tender documents includes:	Modify	SIT 1 (Mentioned below)
4	8	Pre-bid Conference		SIT 2 (Mentioned below)
5	10.1	The Technical bid to be submitted by Tenderer shall contain the following documents, duly filled in, as required	Modify	SIT 3 (Mentioned below)
6	11.2	Tender Currency	Modify	SIT 4 (Mentioned below)
7	12.1	Tender Prices		As Applicable
8	12.2, 33, 36.1	Schedule wise evaluation		Not Applicable
9	12.6	GST details		As Applicable
10	14	PVC Clause & Formula	Modify	prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account
11	14.4 to 14.7	Exchange Rate Variation (ERV)		Not Applicable
12	16.2 a) to c)	Documents Establishing Tenderer's Eligibility and Qualifications	Modify	As per Section IX: Qualification / Eligibility Criteria
13	18.4, 18.5	Earnest Money Deposit (EMD)	Supplement	SIT 5 (Mentioned below)
14	19	Tender Validity	Modify	SIT 6 (Mentioned below)
15	20.4	Number of Copies of Tenders to be submitted	Modify	Tenderer shall submit their tender in "Original" only.
16	20.8	Two Bid System	Modify	SIT 7 (Mentioned below)
17	20.9	E-Procurement		Not Applicable
18	32	Conversion of Tender Currencies in India Rupee.		SIT 8 (Mentioned below)
19	34 and 35.1	Comparison on CIF Destination Basis		As Applicable
20	35.2 to 35.6	Additional Factors for Evaluation of Offers and Preferential schemes		As Applicable
21	43	Parallel Contract		Not Applicable
22	44.1	Serious Misdemeanours		As Applicable
23	44.3	Integrity Pact		As Applicable
24	45.1	Notification of Award		As Applicable
25	50	Applicability of additional GIT for rat contracts		Not Applicable



Sl. No.	GIT Clause No.	Topic	Modify/ Substitute/ Supplement	SIT Provision
26	51	Applicability of additional GIT for PQB Tenders		As Applicable
27	52	Applicability of additional GIT for Tender involving Samples		As Applicable
28	53	Applicability of additional GIT for EOI Tenders		Not Applicable
29	54	Applicability of additional GIT for Tenders for disposal of Scrap		Not Applicable
30	55	Applicability of additional GIT for Development/Indigenization Tenders		Not Applicable
31	9	Time Limit for receiving request for clarification of Tender Documents	Modify	SIT 9 (Mentioned below)

SIT-1: The tender documents include: - The tender documents include:

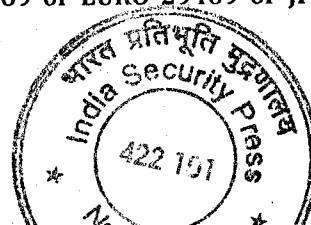
- Section I - Notice Inviting Tender (NIT)
- Section II - General Instructions to Tenderers (GIT)
- Section III - Special Instructions to Tenderers (SIT)
- Section IV - General Conditions of Contract (GCC)
- Section V - Special Conditions of Contract (SCC)
- Section VI - List of Requirements
- Section VII - Technical Specifications
- Section VIII - Quality Control Requirements
- Section IX - Qualification/ Eligibility Criteria
- Section X - Tender Form
- Section XI - Price Schedule
- Section XII - Vendor Details
- Section XIII - Bank Guarantee Form for EMD
- Section XIV: Manufacturer's Authorization Form
- Section XV - Bank Guarantee Form for Performance Security
- Section XVI - Contract Form
- Section XVII: Letter of Authority for attending a Bid Opening
- Section XVIII: Proforma of Bills for Payments
- Section XIX: NEFT Mandate
- Section XX: Pre-Bid/ Pre-Contract Integrity Pact

SIT-2: Pre-bid conference: The pre-bid conference will be held on **31.10.2023** at 11.00 hrs IST. The prospective bidders interested to participate in this tender are requested to attend the pre-bid conference for clarifications on PQB and Technical issues, at India Security Press, Nashik. The queries of Pre-bid conference if any, shall reach to CGM, ISP, Nashik on or before **26.10.2023** in writing by Fax/e-mail/surface mail.

SIT-3: Submission of Tender:

Part I: Pre-Qualification Bid (PQB)

- I. **Tender Fee:** The firm has to submit the Tender fee **INR 5900 or USD 72 or EURO 65 or JPY 10016** in form of demand draft/ banker's cheque/ pay order drawn from any "Scheduled Commercial Bank" in India, in favour of India Security Press, a unit of SPMCIL, Nasik Road payable at Nashik.
- II. **Earnest Money Deposit** **INR 27,15,000 or USD 33069 or EURO 29469 or JPY 4609508** (for more details check SIT-5 mentioned below)



- III. **Power of Attorney/ Authorization** with the seal of company indicating that authorized signatory is competent and legally authorized to submit the tender and/ or to enter into legally binding contract.
- IV. The eligibility criteria for the tender are given in **Section IX- Qualification/ Eligibility Criteria (PQB)**. The bidder has to submit all the desired documents and relevant documentary proof in support of relevant clauses mentioned in Section IX: Qualification/ Eligibility Criteria (PQB). The Qualifying Criteria should be submitted in original.
- V. Copy of PAN and GST registration certificate (for indigenous bidder).
- VI. Tender Form: As per Section X of the tender document.
- VII. Vendor Details: As per Section XII of the tender document.
- VIII. Manufacturer's Authorisation Form: As per Section XIV of the tender document, if applicable.
- IX. Duly filled-in, sealed and signed 'Section XX: Pre-Bid/ Pre-Contract Integrity Pact'.

Part-II: Technical bid (Second Envelope):

- I. The tenderer shall submit detailed Technical offer as per Technical Specifications mentioned as per Section-VII and List of Requirement as per Section-VI of the tender document.
- II. The tender has to submit sealed and signed tender document by authorized signatory of the tenderer as a token of acceptance of all section/ terms and conditions of this tender document (GIT, SIT, GCC, SCC, Quality Control Requirement, List of Requirement, Technical Specification, Tender form etc.)

Part-III: Price Bid (Third Envelope):

The tenderer shall quote their prices strictly as per the proforma given in Section-XI of the Tender document. No additional/ extra item with price shall be included other than that of Section XI.

NOTE:-

- i. The each envelope containing bids shall be super scribed as, Pre-Qualification Bid, Technical Bid and Price Bid separately as the case may be for "Supply, Installation, Testing, Commissioning & Training of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD, Qty.: 1 No.". The sealed envelopes shall be again put in another envelope and super-scribed as tender for "Supply, Installation, Testing, Commissioning & Training of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD, Qty.: 1 No." due on date specified in Section I: Notice Inviting Tender (NIT).
- ii. If the tender is not submitted as per above format, offer/ bid/ tender will be liable for rejection.
- iii. Late Tender shall not be accepted. Tenderer shall submit their offer only on prescribed form. Tenders by fax/ email shall not be accepted. Tender by Post/hand/courier received on or before the due date and time shall be accepted. Postal delay/ delay by courier services etc. shall not be condoned, what so ever reason may be.

SIT-4: Tender Currencies: The domestic Bidders should quote in Indian Rupees only. Foreign Bidders should quote either in INR/ Euro/ USD/ JPY. Bidders are requested to quote price within two decimal places. Quotation with price quote beyond two decimal places will be ignored.

SIT-5: Earnest Money Deposit (EMD): The required EMD as mentioned in Section VI, List of requirements submitted along with the tender in Pre-Qualification offer. The EMD shall be valid for a period of 45 days beyond Bid Validity i.e. 180+45 = 225 days after the date of opening of the tender. Any short validity, the tender shall be treated as unresponsive.

EMD must be submitted along with the PQB (1st Packet) in form of Demand Draft / Fixed Deposit Receipt / Bankers cheque/Bank Guarantee drawn from any Scheduled Commercial Bank in India only in favour of India Security Press, Unit SPMCIL payable at Nashik. The firm who are currently register with Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or Start-ups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT). The certificate should clearly indicate validity of the certificate (Valid upto XXXXXX) otherwise, certificate will not be considered for exemption of EMD.

SIT-6: Tender Validity:

(i) The tenders shall remain valid for acceptance for a period of 180 days after the date of tender opening prescribed in the tender document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

(ii) In exceptional cases, the tenderers may be requested by ISP Nashik to extend the validity of their tender upto a specified period. Such request(s) and response thereto shall be conveyed by surface mail or by fax/ e-mail followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly.

(iii) In case the day upto which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for ISP Nashik, the tender valid shall automatically be extended upto the next working day.

(iv) Compliance with the Clauses of this Tender Document: Tenderer must comply with all the clauses of this Tender Document. In case there are any deviations, these should be listed in a chart form without any ambiguity along with justification.

SIT-7: Three Bid System:

a) Pre-qualification bid, Technical bid and the Financial Bid

(i) In the first instance, the Qualifying Criteria of the **Pre-Qualification Bid** of Tender document will be considered for the evaluation. These offers/ bid will be scrutinized and evaluated by the committee/ authority with reference to the parameters prescribed in the eligibility criteria (**Section IX**).

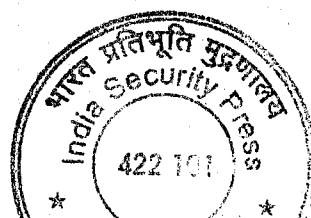
(ii) Thereafter the **Technical part** of the Pre-Qualification Bid Qualified firms will be considered for the evaluation in second stage at a later date and time for further scrutiny and further evaluation. The technical acceptance of the bids is on the basis of **Technical Specifications** offered by the bidders as per **Section -VII Technical Specification** and **Section-VI List of Requirement** of the tender document and acceptance of the terms and conditions as per GIT, SIT, GCC, SCC, other conditions of tender.

(iii) In the third stage, the Price Bid of only the technical acceptable offers (as mentioned second stage) will be opened for further scrutiny and evaluation.

b) The intimation regarding opening of Technical and price bids shall be given to qualified tenderers to enable them to attend the technical and price bid opening, if they so desire.

7.1 Price Bid Evaluation:

a) In case of indigenous offer, the prices quoted shall be compared on FOR ISP Nashik basis which includes all taxes, duties, packing and forwarding charges, freight, insurance, installation, Testing and commissioning etc. as per the price schedule.



- b) In case of foreign offer, the tenderer will be required to quote on FOB and CFR price (in both the cases (FOB & CFR), the Purchaser (i.e. India Security Press, a Unit of SPMCIL) will borne the Insurance cost). SPMCIL reserves the right to place order either on FOB or CFR (whichever beneficial to SPMCIL) basis.
- c) For the purpose of comparison, the total FOR price of indigenou offer (including of charges towards installation, testing, commissioning & training etc.) shall be compared with the total FOR price (including of charges towards installation, testing, commissioning & training etc.) of imported offer.
- d) The criteria for arriving at the FOR cost (including of charges towards installation, testing, commissioning & training etc.) in respect of foreign/ overseas firm will be as under:
- i) **To determine the CIF value:** The freight charges either quoted by the firm or the freight charges require to be paid by SPMCIL (whichever beneficial to SPMCIL) and the Insurance cost (0.05% of 110% of FOB Cost + 18% GST (on 0.05% of 110% of FOB Cost)) will be added in FOB cost quoted by the respective bidder. This price will be multiplied by the exchange rate between Indian Rupees and the quoted foreign Currency, prevailing as on the date of opening of the technical bid - 2nd packet. The applicable rate will be "BC Selling rate" of State Bank of India.
 - ii) **To determine landed cost of the machine:** The converted CIF price in Indian Rupees shall be added with applicable custom duties, the present rates of Custom Duties are "Basic Custom duty (BCD) @10% on CIF value + Social Welfare Surcharge (SWS) @ 10% on Basic Custom Duty + IGST @ 18% on [CIF Cost + Basic Custom Duty + Social Welfare Surcharge (SWS)]. On this price, 1% of CIF value will be added towards incidental charges for port clearance, bank charges inland freight charges upto destination i.e. India Security Press.
 - iii) **To arrive FOR cost (including of charges towards installation, testing, commissioning & training etc.):** The quoted cost for 'installation, testing, commissioning, training etc.' (as quoted by the bidder in its price schedule) will be converted into INR. In this value GST@18% will be added. Thereafter the cost of 'installation, testing, commissioning, training etc.' inclusive of GST@18% will be added into the landed cost of the machine.

SIT-8: Conversion of Tender Currencies in Indian Rupee: The quoted prices in different currencies, all 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 (technical bid) tender opening.

SIT-9: Time Limit for receiving request for clarification of Tender Documents: A tenderer requiring any clarification or elucidation on any issue of the tender document may take up the same with ISP Nashik in writing or by fax/ e-mail/ post. ISP Nashik will respond in writing to such request provided the same is received by ISP Nashik not later than **21 days** prior to the prescribed date of submission of tender.



SECTION IV: GENERAL CONDITION OF CONTRACT (GCC)

Please refer the link:

<https://spmci.com/uploaddocument/GCC/new.pdf> for further details

GCC (Total pages: 36)

BIDDERS ARE REQUESTED TO DOWNLOAD 36 PAGES BY CLICKING THE ABOVE SAID LINK AND SUBMIT THE SAME DULY STAMPED AND SIGNED ALONG WITH TENDER DOCUMENT.



SECTION V: SPECIAL CONDITIONS OF CONTRACT (SCC)

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

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

(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	Modify/ Substitute/ Supplement	SCC Provision
1	1.2	Abbreviations:		As applicable
2	6.1, 6.2, 6.3 & 6.5	Performance Bond/ Security	Modify	SCC 1 (Mentioned below)
3	8.2	Packing and Marking		As applicable
4	9	Inspection and Quality Control	Supplement	SCC 2 (Mentioned below)
5	11.2	Transportation of Domestic Goods		As Applicable
6	12.	Insurance		SCC 3 (Mentioned Below)
7	14.1	Incidental Services	Supplement	SCC 4 (Mentioned Below)
8	15	Distribution of Despatch Documents for clearance/ Receipt of Goods		As Applicable
9	16.2, 16.4	Warrantee Clause	Supplement	SCC 5 (Mentioned Below)
10	19.3	Option Clause	Modify	Not Applicable
11	20.1	Price Adjustment Clause		As Applicable
12	21.	Taxes and Duties	Modify	SCC 6 (Mentioned Below)
13	22	Terms and Mode of payments		SCC 7 (Mentioned Below)
14	24.1	Quantum of LD		SCC 8 (Mentioned Below)
15	25.1	Bank Guarantee and Insurance for Material Loaned to Contractor		Not Applicable
16	33.1	Resolution of Disputes		As applicable
17	36.3.2, 36.3.9	Disposal/ Sale of Scrap by Tender		Not Applicable

SCC-1: Performance Bond/ Security: Within 21 days, the successful bidder has to submit Performance Bond/ Security equivalent to 3% of the order value (i.e. cost of the machine + installation, testing, commissioning, training charges) and valid for a period of 60 days beyond the completion of all contractual obligations including warranty period i.e. for a period of 24 months from the date of issue of Notification of award. The successful bidder will also allow to submit a fresh Bank Guarantee (on warranty period) of 3% value of the good excluding installation, commissioning charges. In such cases original performance security will be returned only after satisfactory delivery/ commissioning and on the receipt of revised Bank Guarantee (on warranty period). The Performance security shall be denominated in the currency of the contract and shall be in one of the following forms:



a) Account Payee Demand Draft or Fixed Deposit Receipt drawn on any commercial bank in India, in favour of India Security Press, Unit SPMCIL.

b) Bank Guarantee issued by a commercial bank in India, in the prescribed form as provided in section XV of this document.

SCC-2: Inspection and Quality Control In addition to clause No. 9 of GCC the following shall also be applicable:-

i) The Machine supplied by the successful bidder will be accepted on manufacturer's certificate conforming to all parameters as per specification as stated in Section VII: Technical Specification as well as manufacturers guarantee certificate to be sent to purchaser. If any defects observed or the machine is found unsuitable, then the same will be returned to the supplier for free replacement upto India Security Press, Nashik or the purchaser shall be entitled to cancel the contract, and if so desired, purchase or authorize purchase of the Machine at the risk and cost of the contractor/supplier.

ii) **Pre-despatch Inspection:** At the discretion of the Chairman and Managing Director, Security Printing and Minting Corporation of India Limited or The Chief General Manager, India Security Press, Nashik, Maharashtra, Three (03) numbers of officials may be deputed at suppliers site for carrying the Pre Dispatch Inspection (PDI) for 05 working days (excluding journey period) at Purchaser's cost. The purchaser will bear the cost of to & fro journey and accommodation. In the event that the purchaser is not able to depute its representative; it shall issue specific authorization to the supplier to dispatch the said Machine viz. **State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD** with waiver certificate.

iii) During inspection, the complete operation of the machine along with following parameters may be checked:

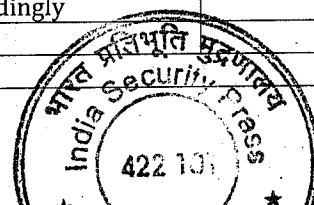
CHECK LIST FOR PDI OF "STATE-OF-THE-ART FULLY AUTOMATIC & INTEGRATED e-PASSPORT (e-MRTD) BOOKLET MANUFACTURING SYSTEM' CAPABLE TO MANUFACTURE e-PASSPORT (E-MRTD) BOOKLETS AS PER ICAO STANDARD DOC. 9303 OF e-MRTD." AS PER TECHNICAL SPECIFICATIONS.

Sr. No.	Parameters	Compliance	Remark
I.	PASTING OF RFID/UID CHIP INLAY ONTO END SHEET :(MODULE-I)		
A)	FEEDER FOR INLAYS		
1	Automatic continuous feeder		
2	Special Inlay sheet separating device		
3	Missing and double Inlay monitoring, Orientation check & Control system		
4	Inlay shall be fed only when the end sheet is present		
5	RFID/UID Chip Reader(s) which shall be integrated with RFID/UID Chip Track and Trace System		
6	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
7	Inlay testing system for reading/capturing of all parameters of RFID/UID-Chip and same must be stored in database.		
8	Provision of uploading batch-data for Chip Inlay Parameter that shall be cross-checked with the parameter of in-feed Inlay.		
9	Suitable Reject Gate		
10	Industrial grade Control Console with suitable size LED Monitor		
B)	FEEDER FOR END SHEETS		
1	An automatic continuous feeder having provision to refill the stack from the top during machine operation.		
2	Page orientation vision sensor/camera monitoring and control system		
3	Missing and double sheet monitoring & control system.		
C)	GLUEING & PASTING STATION FOR PUR REACTIVE HOTMELT		
1	Hot melt gluing station		
2	The suction plate or suitable mechanism to match the size of product configuration 266 mm x192 mm in 2 up formats.		

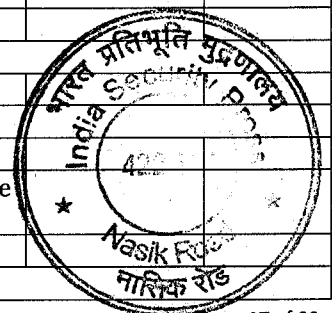
Sr. No.	Parameters	Compliance	Remark
3	The Suction plate or suitable mechanism to handle Inlays with thinner grooving line (gutter) in the middle.		
4	The glue application device shall have adjustable mechanism		
5	Cartridge capacity up to 20 kg		
6	Clock/timer for preheating the hot melt		
D)	PRESSING OF STACKS		
1	Suitable pressing station/(s)		
E)	RFID/UIDCHIP READERS AT DELIVERY:		
1	RFID/UID Chip Reader(s)		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
F)	REJECT GATE:		
1	Suitable Reject Gates		
2	The rejected Inlays deposition		
G)	DELIVERY:		
1	Suitable conveyer belt delivery		
2	The conveyer belt shall be capable to hold at least 5-6 stacks.		
3	Integrated product counter with reset facility		
H)	INDUSTRIAL GRADE CONTROL CONSOLE:		
1	Industrial grade Control Console with suitable LED Monitor and latest Operating System		
2	Display of all operational data and operator configuration. Provision to configure all the required configurations.		
3	The console shall show all condition of the machine		
II	COLLATING AND SEWING OF 2-UP SHEETS:		
A)	FEEDER UNITS FOR COLLATION		
1	In total twelve feeders suitable to feed single or folded sections, HAUV film/Polycarbonate sheets of 2 up format		
2	Two feeders out of 12 feeders to feed laminating films		
3	One feeder to feed polycarbonate sheet		
4	Facility to refill the stack during machine run		
5	Missing and double sheets / folded sections /film/ polycarbonate sheet monitoring and control system		
6	The faulty layer be rejected through subsequent Reject Gate before trimming.		
7	Monitoring & control system with Page/film/Sheet Orientation Vision Sensor/Camera System		
8	Sensors to indicate the pile height and warning light to the operator to refill the feeder during machine run		
9	Individual feeder shall be sequentially switched ON /OFF automatically and shall be synchronized with machine operation.		
10	Provision to switch ON/OFF any particular feeder		
11	HAUV laminating films feeders shall be equipped with suitable Electrostatic Discharge Device.		
12	Self-teaching thickness control system		
B)	RFID/UID CHIP READERS		
1	RFID/UID Chip Reader(s)		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
C)	TAPE RE-ENFORCEMENT UNIT		
1	The Tape Re-enforcement Unit working		
2	The width of the tape shall 266±10 mm adjustable.		
3	Heat Pressing unit		
4	Monitoring and control system		
D)	REJECT GATE		
1	The suitable Reject gate with Reject Tray/Box		
E)	TRIMMING STATION		
F)	REVERSE & INTERLOCK STITCHING		



Sr. No.	Parameters	Compliance	Remark
1	Rows in left-right combination with 2 nos. of Stitching Machine in each row in total 4 nos. high speed Programmable Electronic pattern Sewing Heads (machines), provided to carry out the Reverse and Interlock Stitching to the 2-up e-Passport Booklet		
2	All the Four Sewing Heads shall be Modular and interchangeable		
3	Reverse Stitch length should be approx. 10 mm and should be programmable and have suitable inbuilt cutter		
4	The number of interlock stitches (back stitches) shall be programmable		
5	The Sewing Heads (Machines) with Monitoring and Control Systems.		
6	Auto Bobbin Changer mechanism		
7	Industrial grade Control Console with suitable size LED Monitor		
8	Proper illumination facility at the needle of all the four Sewing Heads		
9	Thread /seam pressing unit & Inspection System		
10	Provision to run any one line (Right or Left)		
G)	RFID/UID CHIP READERS		
1	RFID/UID Chip Reader(s)		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
H)	DELIVERY		
1	The sewn layers shall be transported on the conveyor and shall be arranged in suitable arrangement.		
2	The Integrated counting device		
III	PASTING OF COVER MATERIAL (BUCKRAM) ONTO COLLATED SEWN LAYER CONTAINING RFID/UID CHIP INLAY		
A)	FLAT FEEDER FOR 2-UP SEWN LAYER		
1	Fully automatic & non-stop suitable Feeder having facility to refill from the top		
2	Monitoring and control system		
B)	RFID/UID CHIP READER		
1	RFID/UID Chip Reader(s)		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
3	Industrial grade Control Console with suitable LED Monitor		
C)	SEAM GLUING		
1	Synchronized with M/c operation and automatic seam gluing.		
2	Seam pressing provision before gluing		
3	Suitable control system for controlling the amount of glue, positioning of the booklet for gluing etc. There shall also have provision for Seam gluing to switch ON /OFF manually.		
D)	FEEDER FOR COVER MATERIAL (BUCKRAM)		
1	Fully automatic & non-stop Flat Feeder		
2	Monitoring & control system		
E)	GLUEING & PASTING STATION FOR PUR REACTIVE HOTMELT		
1	Hot melt gluing station		
2	The suction plate or suitable mechanism to match the size of product configuration 266 mm x192 mm in 2 up formats.		
3	The Suction plate or suitable mechanism to handle Inlays with thinner grooving line (gutter) in the middle.		
4	The glue application device shall have adjustable mechanism		
5	Cartridge capacity up to 20 kg		
6	Timer for preheating the hot melt		
7	Pressing mechanism		
F)	RFID/UID CHIP READER		
1	RFID/UID Chip Reader(s)		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
3	Industrial grade Control Console with suitable LED Monitor		
G)	REJECT GATE		

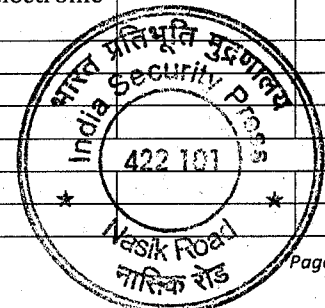


Sr. No.	Parameters	Compliance	Remark
1	The suitable Reject gate with Reject Tray/Box		
H)	DELIVERY		
1	Suitable conveyer belt delivery		
2	Integrated counting device		
IV	HOT GOLDEN COLOUR FOIL STAMPING, HEAT CREASING OF 2-UP BOOKLET,1-UP SPLITER FROM 2-UP,CENTRE FOLDING OF 1-UP /2-UP BOOKLET,HEAT PRESSING OF 1-UP BOOKLET AND PROFILE DIE CUTTING OF FINISHED e-PASSPORT BOOKLET OF ICAO STANDARDS		
A)	FEEDER		
1	Fully automatic & non-stop suitable feeder		
2	Suitable booklet orientation monitoring & control system		
B)	RFID/UID CHIP READER		
1	RFID/UID Chip Reader(s)		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
C)	HOT GOLDEN COLOUR FOIL STAMPINGSTATION		
1	The hot stamping head with height adjustment		
2	Automatic golden colour foil-reel fed system		
3	Electronic Temperature Controller		
4	Auto/Manual operation of Stamping station		
5	Control Touch Panel / HMI		
6	Suitable sensor/provision to sense presence of booklet		
D)	CAMERA SYSTEM FOR GOLDEN COLOUR FOIL EMBOSING		
1	Inspection Camera System with High resolution Camera(s)		
2	TEACH-IN-MODE provision		
3	Separate Industrial grade LED monitor with controller		
E)	REJECT GATE		
1	Suitable nos. of Reject Gates with Reject Box/tray		
F)	2 UP TO 1-UP BOOKLET CUTTING STATION		
1	A suitable type cutting mechanism		
G)	HEAT CREASING STATION		
1	The suitable high-quality heating element		
2	HMI/Control Console		
H)	CENTRE FOLDING FOR BOOKLET		
1	Latest & trouble-free Centre Folding Station		
2	Synchronization with the machine speed		
3	Suitable drive mechanism		
I)	HEATED SPINE PRESSING & SPINE ROLLING STATION		
1	Pressing mechanism		
2	HMI/Control Console		
J)	PROFILE DIE CUTTING STATION / (S) FOR FINISHED e-PASSPORT BOOKLET OF ICAO STANDARD		
1	A high quality suitable, rugged and sturdy Profile Die Cutting Station/(s)		
2	Suitable motor-drive mechanism		
3	The size of the finished booklet shall not deviate the dimensions (125 mm x 88 mm) \pm 0.3 mm. (ICAO Standard)		
4	The final size and shape of the Passport booklet shall be achieved by one single profile die cut		
5	Extraction unit with suitable trolley and holding mechanism		
6	Proper illuminated lamp		
7	Auto/manual/inch mode selection for die setting/replacement		
K)	WASTE CONVEYOR SYSTEM		
1	Automatic waste conveyer system		
L)	RFID/UID READER		
1	One RFID/UID Chip Reader		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
3	Industrial grade Control Console with suitable size LED Monitor		
M)	REJECT GATE		



Sr. No.	Parameters	Compliance	Remark
1	The suitable nos. of Reject Gates with Reject boxes/trays		
N)	DELIVERY & STACKING SYSTEM		
1	Suitable delivery System		
2	Conveyor System of the delivery shall be capable to stack at least 200 booklets		
V	GOTHIC NUMBERING, LASER PERFORATED NUMBERING, BAR CODE PRINTING CUM LABEL APPLICATOR		
A)	BOOKLET FEEDER		
1	Suitable feeding system		
2	Conveyor System of the feeder shall be capable to stack at least 200 booklets		
3	Booklet position control system		
B)	RFID/UID CHIP READER		
1	One RFID/UID Chip Reader before or after Gothic numbering taken place		
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the System shall record the data accordingly		
3	Industrial grade Control Console with suitable size LED Monitor		
C)	3 x OPENING STATION :(PAGE OPENING)		
1	3 x Opening Stations		
2	The second Opening Station shall be used to open the HAUV film and Polycarbonate sheet, in case may be.		
3	De-ionization Electrostatic Device before 2 nd Opening Station		
4	Thickness controller		
5	Page scanner to monitor the correct page opening.		
D)	CRN IMPACT NUMBER PRINTING OF GOTHIC NUMBERS ON THE OPENED DATA PAGE FOR SERIAL / RANDOM NUMBER		
1	The impact Numbering System having black carbon ribbon with penetrating ink with thermal/non-thermal transfer whatever the case may be.		
2	Sequential and Random Numbers. The numbering Box shall be electronically operated & controlled		
3	Numbering Unit shall have provision for printing up to 9 characters		
4	Synchronization and interfacing of Gothic number, Laser perforation number and Bar Code number & RFID/UID Chip Parameter and with the Main Controller		
5	Provision to "Bypass", Gothic numbering station during remake process		
E)	CAMERA MONITORING SYSTEM FOR PRINTED GOTHIC NUMBER		
1	A unique Vision Camera System having High resolution Camera along with suitable illuminating lamp		
2	A separate LED monitor shall be provided at Gothic Numbering Station to monitor the printed gothic number in integration with main Control Console		
3	TEACH-IN-MODE		
4	Gothic Numbering shall have interface with Laser Perforation Numbering, Bar Code printing, RFID/UID Chip Parameter and with the Main Controller for perfect integration, matching and marrying of all these identical data (Numbers).		
F)	3 x OPENING STATION: (PAGE OPENING)		
1	One Opening Station shall be used to open HAUV film by suitable angle		
2	A De-ionization Electrostatic Device should be installed before Opening Station of HAUV film		
3	Thickness Controller or Monitoring Camera		
4	Compatible with polycarbonate sheet also		
G)	LASER PERFORATION NUMBERING SYSTEM		
1	A sealed RF excited CO2 Laser System of Class-I to perform the laser perforated number on the Passport booklet of Conical in shape (The perforated holes shall be bigger at the entry of the laser beam and smaller at exit of the laser beam).		
2	The laser perforation numbering to all the pages of the booklet except Front cover, Two HAUV films/ Polycarbonate film (as applicable) and Front Data page shall be done.		
3	The Laser Numbering System shall perforate up to 9 characters.		
4	The hole diameter at the entry of the laser beam shall be 0.7 mm.		
5	The depth of the laser perforation (penetration capacity) shall be suitable and		

Sr. No.	Parameters	Compliance	Remark
	adjustable to the booklet thickness varying from 2 to 7 mm.		
6	The laser number shall be identical to Gothic number of the booklet.		
7	The quality of the laser perforation number on the Passport booklet shall be sharp, spotless and clear.		
8	Suitable Cooling System with interlocking facility		
9	Laser waste Exhaust System of suitable capacity		
10	Provision to keep Laser Perforation Numbering to be bypassed during remake of barcode or as per operator requirement		
H)	CAMERA MONITORING SYSTEM FOR LASER PERFORATION NUMBER		
1	A High resolution Unique Vision Camera Monitoring System		
2	The through hole inspection which shall either check through all perforated pages of the booklets or at least last perforated page of the booklet		
3	A separate LED monitor with Controller shall be provided at Laser Numbering Station		
4	Reject Gate		
I)	ONLINE BARCODE PRINTING CUM LABEL APPLICATOR AND SCANNER		
1	Online Barcode Printer cum label applicator unit		
2	The application of the unit shall be properly integrated & synchronized with the main control of the machine.		
3	Test print facility of the printer		
4	Online barcode scanner		
J)	RFID/UID CHIP READER BEFORE FINAL DELIVERY		
1	One RFID/UID Chip Reader		
2	Conditions shall be cross checked		
3	Integration with the machine functions		
K)	DELIVERY & STACKING SYSTEM		
1	A suitable delivery System capable to stack at least 200 booklets in vertical orientation.		
2	Combo-box scanner including Barcode Scanner & RFID/UID Reader for mapping of Passport number and chip Inlay parameter		
VI	INDUSTRIAL CONTROL CONSOLES / HMIs AT VARIOUS LOCATIONS OF THE SYTEM		
1	Touch Screen Industrial Grade Control Consoles /HMIs		
2	Consoles/HMIs shall display current M/c status		
3	Uploading and down-loading of PLC programme Or Software back-up and technical support		
4	All the Computers in the System shall be provided with RAID Level -1 Disk System.		
5	Suitable capacity of UPS		
6	Remote Access facility		
VII	TRACK & TRACE SYSTEM WITH CENTRAL DATABASE (CDB)		
1	Facility of printer, key board/mouse/Monitor		
2	SAP integration facility		
3	Separate Quality Checking workstation		
4	Data import/export facility of Inlay data in EXEL format etc.		
5	Hand held RFID/UID Chip Reader		
6	Generating of reports Daily production data sheet		
7	Provision to fetch customized reports as per requirement.		
VIII	GENERAL REQUIREMENTS		
1	All the feeder, reject gates and delivery units shall have integrated Electronic Counters.		
2	Suitable to operate 3 Phase, 415 V +/-6%, 50Hz, TPN power supply		
3	Suitable Safety guards / devices		
4	Centralized Lubrication System		
IX	PRODUCT CONFIGURATION OF e-PASSPORT BOOKLET		
1	Base stock : 266 mm x 192 mm in 2 Up format		
2	Finished Booklet : 125 mm x 88 mm ± 0.3 mm		



Sr. No.	Parameters	Compliance	Remark
3	Thickness of the folded booklet : 2 to 7 mm (4 pages to 64 pages)		
4	Corner Rounding Radius : 3.18 mm \pm 0.02 mm		
5	Minimum final output : 50 booklets per minute		

iv) The inspection procedure and the arrangement will be according to the contract agreed mutually between the supplier and the purchaser.

SCC-3: Insurance: In case of Indigenous offer, a specific insurance cover for each consignment / supply is to be given by the firm, as applicable.

SCC-4: Incidental Services : Following incidental services are required to be performed by the supplier:

- a) The firm shall undertake to provide service backup for a minimum 10(ten) years from the date of acceptance of the system, as and when required, including software updates during this period if required.
- b) For the warranty period the supply of the required spare parts should be on directly replaceable basis and thereafter on compatible basis.
- c) The firm shall ensure to provide remote access service from date of acceptance as and when required by purchaser, free of cost for 5 year beyond warranty period and on payment basis thereafter.
- d) The up-gradation of hardware and software part if any shall be the responsibility of supplier for a period of 10 years from the date of acceptance.
- e) The arrangements of all the spares, tools and tackles and consumables required during installation and commissioning shall be the responsibility of the firm.
- f) The firm shall provide the list of spare with cost for the spares required for maintenance for a period of two years after expiry of warranty along with price bid. The quoted price of the spares shall be valid for a period of three years. However, the rates of the spare parts will not be the part of Price bid evaluation.

SCC-5: Warranty Clause:

- i) The tenderer shall provide the onsite warranty for a period of 12 (Months) from the date of acceptance of the system.
- ii) It will be the firm's liability to modify / replace free-of-cost the parts which may fail / go defective / requires modification during the Warranty period within 4 weeks.
- iii) It will be firm's responsibility to provide onsite warranty to replace the defective parts with good parts at their own expenses up to the expiry of the Warranty Period i.e. for one year from the date of acceptance of the system.

SCC-6: Taxes and Duties: If the tenderer fails to include taxes and duties as per law of the land in the tender, no claim thereof will be considered by purchaser at a later stage.

SCC-7: Terms and Mode of Payment: The payment shall be made in the following manner-

1. Indigenous supplier:

- (a) 60% cost of machine on receipt of the machine at ISP.
- (b) 20% cost of machine after successful installation & commissioning of the Machine.
- (c) 20% balance cost of machine along with 100% towards Installation, commissioning, testing and Training charges after issue of Final Acceptance Certificate by the Purchaser. The payment will be done through RTGS only. Therefore, the suppliers have to produce all the Bank details such as Name

of Bank, Account No., IFSC Code No., MICR No. along with the Tender document. TDS, if any, will be deducted on installation, testing, commissioning and training work.

- (d) The supplier while claiming the payment shall furnish the following certificate to the paying authorities:

"We hereby declare that additional set offs/ input tax credit to the tune of Rs. XXXXX (to be filled while claiming the payment) has accrued and accordingly the same is being passed on to the purchaser and to that effect the payable amount may be adjusted".

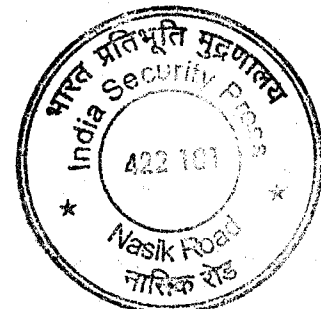
2. Foreign supplier: 100% Payment shall be made through irrevocable letter of credit in the following manner:

- (a) 80% FOB/ CFR cost of the machine shall be made through irrevocable letter of credit to be opened by the Purchaser on a Scheduled Commercial Bank in favour of SELLER. The payment shall be arranged on receipt of the following documents and invoice after dispatch. Payment shall be made as per contract price:

- (i) Complete set of clean Bill of Lading showing the complete goods have been actually shipped on board.
- (ii) Signed invoices in sets of quadruplicate stipulating specification reference for item indicating cost and quantity.
- (iii) Certificate of Country of Origin, issued by Chamber of Commerce.
- (iv) Copies of packing list in quadruplicate stipulating individual items, quantity, weight and dimension details of each packing case.
- (v) Inspection Certificate. If inspection certificate has been waived, then Quality Test Certificate.
- (vi) Two sets of non-negotiable dispatch documents, to be sent by courier services to the PURCHASER immediately after dispatch of consignment.
- (vii) Catalogue, technical write up/literature for customs clearance purpose.
- (viii) Certificate of No Agency Commission payable to any Indian agent involved in this transaction.

- (b) Balance 20% of FOB/ CFR cost of material and 100% cost of installation, commissioning and training, charges will be made, after deduction of TDS (Tax Deducted at Source) as per prevalent rates after complete installation and commissioning, successful demonstration of performance and after Final Acceptance Certificate issued by the Purchaser. GST on installation, testing, commissioning charges will be borne by ISP.

SCC-9: Quantum of LD: Subject to GCC clause 28, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, ISP shall, without prejudice to other rights and remedies available to ISP under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to the ½% percent (or any other percentage if prescribed in the SCC) of the delivered price of the delayed goods and/ or services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10% (or any other percentage if prescribed in the SCC) of the delayed goods' or services' contract price(s). During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 23.4 above shall also apply. In all such cases GST would also be applicable on LD.



SECTION VI: LIST OF REQUIREMENTS

Schedule No.	Brief Description of Goods/ services	Earnest Money Deposit	Quantity (with unit)
1	Supply, Installation, Testing, Commissioning & Training of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD.	INR 27,15,000 or USD 33069 or EURO 29469 or JPY 4609508	01 Number

1. Required terms of Delivery:

A. Required Delivery Schedule:

For overseas suppliers:

- (i) If the contract is awarded on FOB/CFR basis, the firm will have to supply all Equipment/ deliverables within 12 Months from the date of issue of LC.
- (ii) The firm has to complete the entire work relating to the installation, testing, commissioning, training, including FAT within a period of 3 months from the date of receipt of machine at ISP.
- (iii) The bidder has to submit detailed delivery schedule comprising of time required for supply and then time required for installation testing and commissioning in terms of PERT chart.
- (iv) The completion time is the essence of the Contract. The machine will have to be supplied, commissioned within the specified time as mentioned above.

For Indigenous suppliers:

- (i) The Successful bidder has to Manufacture, Supply the Machine at ISP within 12 months from the date of issue of Notification Award of Contract on FOR, ISP basis.
- (ii) The firm has to complete the entire work relating to the installation, testing, commissioning, and training within a period of 2 months from the date of receipt of machine at ISP.
- (iii) The bidder has to submit detailed delivery schedule comprising of time required for supply and then time required for installation testing and commissioning in terms of PERT chart.
- (iv) The completion time is the essence of the Contract. The machine will have to be supplied, commissioned within the specified time as mentioned above.

B. Required Terms of Delivery, Destination and preferred mode of Transportation:

a) For overseas supplier: The Delivery shall be by sea on FOB/ CFR Basis. The overseas supplier shall deliver the Machine ordered on FOB port of shipment or CFR on NhavaSheva Sea Port.

b) For Indigenous supplier: The delivery shall be on FOR ISP Nashik, Maharashtra basis by Road/Rail.

- 2. All the copies of tenders shall be complete in all respects with all their attachments/ enclosures duly numbered and signed on each and every page.



3. In addition to the offer for supplying the **State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD**, the tenderer shall quote for the installation, commissioning and training charges separately in the price bid.
4. **RISK PURCHASE:** If the supplier after submission of tender and due acceptance of the same i.e. after issue of Notification of Award of Contract fails to abide by the terms and conditions of these tender documents, or fails to supply the deliverables as per delivery schedule given or at any time repudiates the contract, the purchaser shall have the right to:
- Invoke the Security-cum-Performance Guarantee if deposited by the supplier and procure Machine from other agencies at the risk and cost of the supplier. The cost difference between the alternative arrangement and supplier tendered value will be recovered from the supplier along with other incidental charges, including taxes, insurance etc.
 - For all the purpose the Notification of Award of contract will be considered acceptance of tender and formal contract pending signing of agreement. Supplier has to abide by all the terms and conditions of tender
 - In case of procurement through alternative sources and if procurement price is lower, no benefit on this account will be passed onto the supplier.
5. **BANK DETAILS: It is requested to provide Bank Details in following proforma:**
- Beneficiary Name :
 - Account No. :
 - Bank Name :
 - IFS Code :
 - Branch & Address :
6. The Bidder has to submit the Check list as per Format given below along with the PQB Documents (**First Envelope**):

Sr. No.	Description	Submitted /Not Submitted	Page No.
1.	Tender form fee		
2.	EMD		
3.	Documentary evidence towards Experience as per clause 1(a) of section IX.		
4.	Documentary evidence towards capability as per clause 1(b) of section IX.		
5.	Documentary evidence towards Financial data as per clause 1 (c) (i), (ii) & (iii) of section IX.		
6.	Undertakings as per clause 2 (i), (ii) of section IX.		
7.	Copy of PAN as per clause 5 (c) of section IX.		
8.	Power of Attorney/ Authorization as per clause 6 (b) of section IX.		
9.	Manufacturer's Authorisation Letter as per clause 6 (d) of section IX.		
10.	Names of organization(s)/ firm(s) with addresses and telephone numbers, fax numbers, email addresses as per clause 6 (e) of section IX		
11.	Duly filled-in, Sealed and signed Section X - Tender Form		
12.	Duly filled-in, Sealed and signed Section XII - Vendor Details		
13.	Duly filled-in, Sealed and signed Section XX: Pre-Bid/ Pre-Contract Integrity Pact		

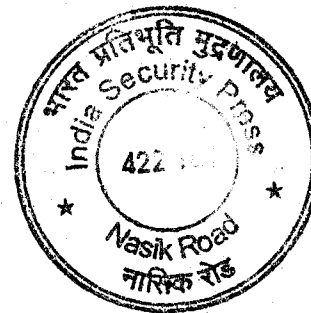


9. The Bidder has to submit the Check list as per Format given below along with the Technical Bid (**Second Envelope**):

Sr. No.	Description	Submitted /Not Submitted	Page No.
1.	All pages of the tender documents (including GIT, GCC, SIT, SCC, List of requirements, Technical specification, quality requirements, etc.) duly signed and stamped by the Authorized signatory of the bidder.		
2.	Adherence to the Delivery Schedule as per Section VI on Bidder's Letter Head.		
3.	Adherence to the Technical Specification as per Section VII on Bidder's Letter Head.		
4.	Adherence to the Quality Control Requirements as per Section VIII on Bidder's Letter Head.		

10. The Bidder has to submit the Check list as per Format given below along with the Price Bid (**Third Envelope**):

Sr. No.	Description	Submitted / Not Submitted	Page No.
1.	Price Bid as per Section XI: Price bid of the tender document. List of Spares with cost required for maintenance of Machine for a period of two years after expiry of warranty. The price quoted for the spares will be valid for three years. However, this will not be the part of the price bid evaluation.		



SECTION VII: TECHNICAL SPECIFICATIONS

STATE-OF-THE-ART FULLY AUTOMATIC & INTEGRATED e-PASSPORT (e-MRTD) BOOKLET MANUFACTURING SYSTEM' CAPABLE TO MANUFACTURE e-PASSPORT (E-MRTD) BOOKLETS AS PER ICAO STANDARD DOC. 9303 OF e-MRTD.

1.0 STATEMENT OF REQUIREMENTS (SOR):

1.1 A State-of-the-art fully Automatic & Integrated e-Passport Booklet Manufacturing System shall be capable to produce highest quality of e-Passport Booklets as per Doc. 9303 of ICAO standard. The System shall be designed as per the technical specifications and required process flow for the full utilization of every machine of integrated System.

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 produce minimum 50e-Passport booklets per minute. The System shall have various monitoring & control system as given in the specifications to maintain the quality of the product and minimize the waste percentage. The booklet transport system & holding mechanism shall be designed in such way that the booklet shall not be wedged /damaged during the process.

The System shall be designed to monitor control & ensure that the Gothic Number & Laser Perforation Number in the booklet is same. Further the number on the bar code label shall be identical to the Passport number both in the form of Bar code and Alpha-Numerical Number.

The entire system should have end-to-end RFID/UID-Chip Track& Trace System to track the RFID/UID-Chip of the e-Passport booklets at various stages during the process and to maintain data in the Central Database (CDB).

The 'State-of-the-art fully Automatic & Integrated e-Passport Booklet Manufacturing System shall have different sequential processing machines for easy handling of the product to ensure continuous production. 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.

2.0 PRODUCT CONFIGURATION OF e-PASSPORT BOOKLET:

- | | | |
|-----|---------------------------------|-----------------------------------|
| 2.1 | Base stock | : 266 mm x 192 mm in 2 up format |
| 2.2 | Finished Booklet | : 125 mm x 88 mm ± 0.3 mm |
| 2.3 | Thickness of the folded booklet | : 2 to 7 mm (4 pages to 64 pages) |
| 2.4 | Corner Rounding Radius | : 3.18 mm ± 0.02 mm |
| 2.5 | Minimum final output | : 50 booklets per minute. |

3.0 GENERAL FUNCTIONAL REQUIREMENT & PROCESS FLOW:

Pasting of RFID/UID Chip Inlay onto End sheet, Checking of RFID/UID-Chip at various locations through highest quality RFID/UID Chip readers, appropriate Page orientation Camera monitoring/ page scanning system, Collating of Visa pages, Data pages, RFID/UID-Chip Inlay, 2 laminating films in 2-up format and Polycarbonate sheet (as the case may be), Reverse & Interlock stitching of collated sheets in 2-up booklet form, pasting of 2up sewn e-passport booklet with cover material (Buckram) & appropriate pressing system with at least 2 stages, Golden colour foil stamping on the cover material, Checking of Gold Stamping quality by high quality camera monitoring system, Cutting of 2-up booklet into 1-up booklet, Heat Creasing, Centre folding, Heat Pressing & Heat spine rolling, Profile die cutting of finished e-Passport Booklet as per ICAO standards, Gothic Numbering on Data page, Verification of Gothic Number through high quality camera monitoring system, Laser conical perforation Numbering to complete booklet except front cover, front data page and two laminate films, Verification of Laser Perforated Number through high quality unique vision camera monitoring system by suitable method for precise checking the through hole quality, Labelling Unit including integrated print unit to print bar codes & alphanumeric number on the label, Label Applicator, Barcode Scanner and Delivery Stacking unit. The system shall be capable to produce minimum 50 e-Passport booklets per minute (Final output) with negligible waste percentage. There shall be provision to upload all machines information data on MIS like SAP system being used in ISP. The entire system should have end-to-end RFID/UID-Chip Track & Trace System to track the RFID/UID-Chip of the e-Passport booklets at various stages of all the processing machines. Appropriate indication for fault diagnostic and suitable remedial measure during break down of the machine due to any operational / software problem.

4.0 PASTING OF RFID/UID CHIP INLAY ONTO END SHEET :(MODULE-I)

4.1 FEEDER FOR INLAYS:

- 4.1.1 Fully automatic & non-stop Feeder shall be provided to handle Inlay consist with RFID/UID Chip & Antenna.
- 4.1.2 The Inlays shall be stacked in an automatic continuous feeder.
- 4.1.3 The feeding system shall be designed in such way that the RFID/UID inlay i.e., the Chip, its antenna and inlay do not get damaged during feeding.
- 4.1.4 There shall be suitable and errorless provision of smooth feeding system for Inlay from the stack.
- 4.1.5 The feeding system shall be equipped with special Inlay sheet separating device.
- 4.1.6 The feeding system shall have provision for refilling of stack during machine operation.
- 4.1.7 The feeding system shall be equipped with missing and double Inlay monitoring & control system.
- 4.1.8 The feeding system shall be fitted with product orientation check & control system to avoid the reverse feeding of Inlay. In case, if the inlay is fed with wrong orientation, then the machine shall stop with error indication for the same.
- 4.1.9 The feeding system shall be programmed in such way that the inlay shall be fed only when the end sheet is present.
- 4.1.10 RFID/UID Chip Reader(s) shall be provided at the feeder of inlays, and it shall be integrated with RFID/UID Chip Track and Trace System.
- 4.1.11 In case, if, both the Chips of the Inlay read as bad, then, the pasting with End sheet shall not take place. The layer of Inlay and End sheet shall be rejected through the subsequent Reject Gate.
- 4.1.12 In-case, if, one Chip of the Inlay is read as bad and another is read as good, the pasting shall not take place and the layer of Inlay and End sheet shall get rejected through the subsequent Reject Gate and the System shall record the data accordingly.
- 4.1.13 The feeder must have Inlay testing system for reading/capturing of all parameters of RFID/UID-Chip and same must be stored in database. There shall be provision of uploading batch-data for Chip Inlay Parameter that shall be cross-checked with the parameter of in-feed Inlay.
- 4.1.14 Suitable Reject Gate shall be provided at appropriate place on this machine.
- 4.1.15 Industrial grade Control Console with suitable size LED Monitor shall be provided on this machine for recording of the batch data of the RFID/UID Inlay other than the Control Console / HMI of the machine.
- 4.1.16 The RFID/UID Chip Tracking System shall be integrated with the machine functions for continuing and rejecting of RFID/UID Chip Inlay as per their results of the liveness of the RFID/UID Chips in the Inlay.

4.2 FEEDER FOR END SHEETS:

- 4.2.1 An automatic continuous suitably designed feeder shall be provided to handle the single sheet.
- 4.2.2 The feeding system shall have provision to refill the stack from the top during machine operation.
- 4.2.3 2-up End Sheets shall be taken off automatically from the bottom one after another.
- 4.2.4 A Page orientation vision sensor / camera monitoring and control system shall be provided to check & control the correct orientation of the End Sheet through reading of printed mark/page number on the sheet.
- 4.2.5 The feeding system shall be equipped with missing and double sheet monitoring & control system.
- 4.2.6 In-case, if it is fed with double sheet or mis-sheet, then the machine shall stop with an error indication.

4.3 GLUEING & PASTING STATION FOR PUR REACTIVE HOTMELT:

- 4.3.1 A PUR reactive hot melt gluing station shall be used for immediate curing after pasting operation.
- 4.3.2 The individual inlays shall be carried over by suction plate or suitable mechanism and PUR reactive Hotmelt glue applied by glue application nozzle or suitable mechanism.
- 4.3.3 The suction plate or suitable mechanism shall be designed to match the size of product configuration 266 mm x192 mm in 2 up formats.
- 4.3.4 The Suction plate or suitable mechanism shall be specially designed to handle inlays with thinner grooving line (gutter) in the middle.
- 4.3.5 The glue application device shall have adjustable mechanism for applying of required amount of glue.

- 4.3.6 The 2-up Inlay shall be placed exactly on the 2 up End sheets.
- 4.3.7 It shall have PUR hot melt gluing, aggregate to handle cartridge up to 20 kg.
- 4.3.8 The system shall be equipped with a clock/timer for preheating the hot melt.
- 4.3.9 The firm shall provide the detail technical specification for PUR hot-melt adhesive and sufficient quantity of sample shall be provided till the successful completion of FAT.
- 4.4 **PRESSING OF STACKS:**
- 4.4.1 The pasted 2 up layer shall be pressed with the hydraulic/suitable pressing station/(s)
- 4.4.2 The pressing pressure shall not damage RFID/UID Chip and its antenna in the inlay.
- 4.5 **2-RFID/UIDCHIP READERS AT DELIVERY:**
- 4.5.1 RFID/UID Chip Reader(s) shall be provided at suitable place at the delivery to read the parameter of RFID/UID Chip in the inlay.
- 4.5.2 If both the Chips are read as OK, then, the pasted layers shall be transported further to the delivery.
- 4.5.3 If any of the RFID/UID Chip of 2-up layer OR both the Chip of 2-up layer read as bad, the pasted layer shall be rejected through subsequent Reject Gate and data shall be updated in server accordingly.
- 4.6 **REJECT GATE:**
- 4.6.1 Suitable Reject Gates with collecting box/tray to collect rejected material shall be provided at appropriate places.
- 4.6.2 The defective Inlays shall be transported into the Reject gate. The rejected Inlays shall be deposited in the box /tray.
- 4.6.3 The End sheets that contain bad inlays which shall be detected before pasting shall be re-useable.
- 4.7 **DELIVERY:**
- 4.7.1 A suitable conveyer belt delivery shall be provided.
- 4.7.2 A stack of pasted stuff in 5/10 no's/as and when required, shall be piled up and delivered or shingle delivery with suitable pieces on the conveyor belt.
- 4.7.3 The conveyer belt shall be capable to hold at least 5-6 stacks.
- 4.7.4 The delivery unit shall be provided with integrated product counter with all the gates for counting per shift operation with reset facility.
- 4.8 **INDUSTRIAL GRADE CONTROL CONSOLE:**
- 4.8.1 Industrial grade Control Console with suitable LED Monitor shall be provided on this machine with latest Operating System.
- 4.8.1 The Console shall have display all operational data and operator configuration. It shall also have provision to configure all the required configurations.
- 4.8.2 The console shall show all condition of the machine viz: speed, product status, error number with cause and suitable short remedies, etc.
- 5.0 **COLLATING AND SEWING OF 2-UP SHEETS:**
- 5.1 **FEEDER UNITS FOR COLLATION OF DATA SHEETS, FOLD / UNFOLD VISA PAGES, 2 HAUV LAMINATING FILM AND RFID/UID CHIP INLAY PASTED WITH END SHEET (ALL IN 2-UP FORMAT).**
- 5.1.1 There shall have in total 12 feeders, suitable to feed single or folded sections, HAUV films / Polycarbonate sheet of 2-up format.
- 5.1.2 Two feeders out of the total 12 feeders shall be designed to feed HAUV laminating films at appropriate location. The sample of 2-up booklet will be given to the successful bidders.
- 5.1.3 One feeder out of the 12 nos. shall be designed to feed polycarbonate sheet at appropriate location.
- 5.1.4 All the feeders shall have facility to refill the stack during machine run to achieve the continuous operation.
- 5.1.5 All the feeders shall be equipped with missing and double sheets / folded sections /film/ polycarbonate sheet monitoring and control system.
- 5.1.6 The faulty layer shall be rejected through subsequent Reject Gate before trimming.

- 5.1.7 The system shall be programmed in such way that any malfunction in any of the feeder, the machine shall be stopped with error indication on the Control Console / HMI.
- 5.1.8 All the feeders shall have monitoring & control system to ensure the sheets are fed correctly. As a fool-proof system, a Page/film/Sheet Orientation Vision Sensor / Camera System shall be provided.
- 5.1.9 Page Monitoring & Control System shall be provided to ensure correct sequence of sheets/folded sections are collated.
- 5.1.10 All the feeders shall be equipped with sensors to indicate the pile height and warning light which shall give warning flash light to the operator to refill the feeder during machine run.
- 5.1.11 An individual feeder shall be sequentially switched ON /OFF automatically and shall be synchronized with machine operation. There shall also have the provision to switch ON/OFF any particular feeder as per production requirement.
- 5.1.12 At-least two feeders to be used to feed HAUV laminating films shall consist of monitoring and control system. If the film is not inserted at appropriate place of the layer, the machine shall alarm with error indication on the Control Console / HMI.
- 5.1.13 Change of location of the film shall have easy adjustable mechanism.
- 5.1.14 All the feeders, those are used to feed HAUV laminating films, shall be equipped with suitable Electrostatic Discharge Device.
- 5.1.15 The collating section shall be equipped with a self-teaching thickness control system to ensure correct collation of sheets / folded sections / HAUV laminating films/ polycarbonate sheet.

5.2 **RFID/UID CHIP READERS:**

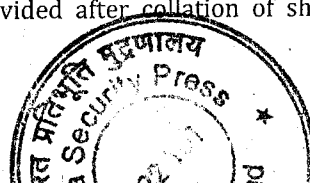
- 5.2.1 RFID/UID Chip Reader(s) which can read/capture and store all the parameter of RFID/UID, shall be provided either before or after the collation of data & Visa pages, end sheet pasted with inlay and HAUV films (before side trimming of layers)
- 5.2.2 In case, if, both the Chips of the Inlay read as good, then, the layer shall be transported further for next operation.
- 5.2.3 In case, if, both the Chips of the Inlay read as bad, then, it shall get rejected through the subsequent reject gate without stitching. Further existing operation of miss-sheets /films/double sheets shall also be continued to reject through subsequent Reject Gate.
- 5.2.4 In case, if, one Chip of the Inlay read as bad and another read as good then, the stitching shall take place and it shall not get rejected through the subsequent Reject Gate, the system shall record the data accordingly.

5.3 **TAPE RE-ENFORCEMENT UNIT:**

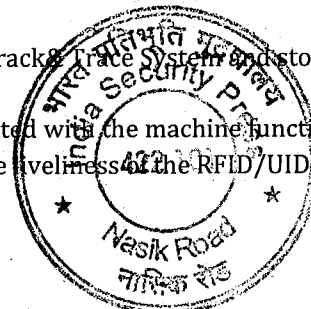
- 5.3.1 The Tape Re-enforcement Unit shall be installed after collation of sheets of 2 Up Passport Booklets and before sewing heads, for re-enforcement of tape on the spine of the 2 Up Passport Booklets.
- 5.3.2 20 mm size (adjustable) Self Adhesive (heat activated) cotton tape has to be re-enforced on the spine of 2 up Passport Booklets (266 x192 mm size) i.e., bottom sheet (back side of End Sheet pasted with Inlay).
- 5.3.3 The width of the re-enforcement tape roll shall be 266mm \pm 10mm adjustable.
- 5.3.4 Heat Pressing unit shall be provided after application of the tape for perfect bonding.
- 5.3.5 In case of stoppage of the machine, the heating bar shall be lifted up automatically.
- 5.3.6 Suitable cutter shall be provided to cut the tape of required length.
- 5.3.7 Monitoring and control system shall be provided to ensure proper re-enforcement of tape before sewing. In case the tape is not inserted into the defined position of the un-sewn collated sheets or in case of No tape the machine shall stop with alarm.
- 5.3.8 Tape Monitoring and Control System should be provided to monitor Tear or End of Tape.
- 5.3.9 The reinforcement tape shall not be applied if the layer is rejected by the machine.
- 5.3.10 The sufficient quantity of the suitable tape required till successful completion of FAT shall be provided by the successful bidder and specification of the tape shall also be provided and colour of the tape shall preferably be white.

5.4 **REJECT GATE:**

- 5.4.1 The suitable Reject gate with Reject Tray/Box shall be provided after collation of sheets before side trimming and sewing.



- 5.4.2 Layers which have been recognized as faulty by the various control systems shall be rejected through reject gate. These layers shall be reused.
- 5.5 **TRIMMING STATION:**
- 5.5.1 The collated sheets shall be properly aligned and shall be trimmed by the trimming station provided with suitable upper & lower knives.
- 5.5.2 The trimming shall be both un-sewn sides of the collated sheets.
- 5.5.3 The trimmed waste shall be guided outside of the machine.
- 5.5.4 The minimum trim shall be 2 mm on each side.
- 5.6 **REVERSE & INTERLOCK STITCHING:**
- 5.6.1 The Machine shall have two rows in left-right combination with 2 nos. of Stitching Machine in each row, in-total consists of 4 high speed Programmable Electronic pattern Sewing Heads(machines), provided to carry out the Reverse and Interlock Stitching to the 2-up e-Passport Booklet.
- 5.6.2 All the Four Sewing Heads shall be Modular, interchangeable and fully compatible for reverse and interlock stitching in 2-up format.
- 5.6.3 Reverse Stitch length should be approx. 10 mm and should be programmable.
- 5.6.4 Thread between the books should be cut off by the suitable inbuilt cutter.
- 5.6.5 The number of interlock stitches (back stitches) shall be programmable i.e. interlocking of 2 to 3 stitches.
- 5.6.6 The Sewing Heads (Machines) should be of reputed make with Monitoring and Control Systems.
- 5.6.7 The Reverse and Interlock Sewing Heads shall be of "**Programmable Sewing Pattern**".
- 5.6.8 The layer shall securely fix in a clamp during sewing process.
- 5.6.9 Top & Bottom thread Monitoring and Control System should be provided which can monitor breaking of Thread and End of Thread.
- 5.6.10 In-case, any of the thread break or end, it should alarm and stop the machine.
- 5.6.11 In-case, Bobbin is used for the bottom thread, then, Bobbin Cassette with accommodation of maximum number of bobbins in it should be provided for all the 4 Sewing Heads and it should have Auto Bobbin Changer mechanism.
- 5.6.12 Spare Bobbin Cassette with Bobbins and two numbers of Offline Automatic Thread Bobbin Winder shall be provided.
- 5.6.13 Each Sewing Head shall be equipped with Touch Screen Control Panel to feed the required parameters of the Sewing Heads.
- 5.6.14 Proper illumination to be provided at the needle of all the four Sewing Heads.
- 5.6.15 Suitable thread /seam pressing unit shall be provided at appropriate place.
- 5.6.16 Thread/Seam Inspection System shall be provided on both Left and Right Sewing Lines to monitor attributes of thread and broken thread of the 2 up sewn booklet. i.e. to check the UV Thread, Tri-colour, Three ply, Thread pattern, broken thread, quality of seam etc., & should give alarm and shall be rejected through subsequent Reject Gate or stop the machine, in case of mismatch of the thread attributes.
- 5.6.17 Provision to run any one line (Right or Left) with two Sewing Heads and to run both the lines with all the four Sewing Heads to be made and the selection has to be given in the Control Console / HMI.
- 5.6.18 In case of fault in any one of the Sewing lines, there should be provision to run the machine with another Sewing line.
- 5.7 **RFID/UID CHIP READERS:**
- 5.7.1 Four no's of RFID/UID Chip Readers shall be provided after Stitching 2 each on left and right sewing lines.
- 5.7.2 If both the Chip read as bad by any of the Twin Readers of left and right track of delivery with error indication of bad chips and booklet shall be rejected through subsequent reject gate and same shall be recorded in the Control Console.
- 5.7.3 All the RFID/UID Readers shall be integrated with Chip Track & Trace System and storing of Chip data in the Central Database.
- 5.7.4 The RFID/UID Chip Track & Trace System shall be integrated with the machine functions for continuing and rejecting of RFID/UID Chip Inlay as per their results of the liveliness of the RFID/UID Chips in the Inlay.



5.7.5 Industrial grade Control Console with suitable size LED Monitor shall be provided on the machine for recording of the batch data of the RFID/UID Inlay other than the Control Console / HMI of the machine.

5.8 **DELIVERY:**

5.8.1 The sewn layers shall be transported on the conveyor and shall be arranged in suitable arrangement.

5.8.2 The quantity of layers in each suitable arrangement shall be selectable through the selector to be provided on the left and right deliveries.

5.8.3 The distance between each suitable arrangement shall be enlarged after reaching pre-selected quantity of layers in the suitable arrangement.

5.8.4 The Integrated counting device shall be provided on the delivery and shall display in final delivery, reject gate, in-feed or else etc.

6.0 **PASTING OF COVER MATERIAL (BUCKRAM) ONTO COLLATED SEWN LAYER CONTAINING RFID/UID CHIP INLAY**

6.1 **FLAT FEEDER FOR 2-UP SEWN LAYER:**

6.1.1 Fully automatic & non-stop suitable Feeder shall be provided to handle thick & rigid products without damage the RFID/UID Chip and Antenna.

6.1.2 The feeder shall be capable to feed 2-up sewn layer embedded with RFID/UID Inlay (Teslin / Polycarbonate type substrate) of sizes given in the product configuration.

6.1.3 The feeder shall have facility to refill sewn layer from the top during machine run to achieve the continuous operation or as per machine design.

6.1.4 The lowest layer shall be separated from the pile & while separating the suitable mechanism should retain the remaining pile. The separated 2-up layer shall be taken by the transport system of the machine.

6.1.5 Double sewn layer or missing layer monitoring and control system shall be provided.

6.1.6 A suitable layer orientation monitoring & control system shall be provided to check the correct orientation of the sewn layer.

6.1.7 In case, if, the sewn layer orientation is read as wrong, then, the layer shall be rejected through separate reject gate.

6.1.8 The firm shall provide the detail technical specification for PUR hot-melt adhesive and sufficient quantity of sample shall be provided till the successful completion of FAT.

6.2 **RFID/UID CHIP READER:**

6.2.1 RFID/UID Chip Reader(s) shall be provided in the Feeder.

6.2.2 If either or both of the RFID/UID Chip in the sewn booklet are read as Ok, then the booklet shall be transported to the Gluing Station.

6.2.3 In-case, if, both the Chips of the Inlay read as bad, then, the pasting of 2-up sewn booklet with Buckram shall not take place and the layer shall be rejected through separate Reject Gate.

6.2.4 Suitable Reject Gate shall be provided at appropriate place.

6.2.5 In case, if, one Chip of the Inlay read as bad and another read as good then, the pasting shall be taken place and the machine shall record the data accordingly.

6.2.6 Industrial grade Control Console with suitable LED Monitor shall be provided on this machine for recording of the batch data of the RFID/UID Inlay.

6.2.7 The RFID/UID Chip Tracking System shall be integrated with the machine functions for continuing and rejecting of RFID/UID Chip Inlay as per their results of the liveliness of the RFID/UID Chips in the Inlay.

6.3 **SEAM GLUING:**

6.3.1 Seam gluing operation shall be synchronized with M/c operation and shall be automatic. The glue shall be applied over the complete or in parts/selectable length of the spine (thread area) of the sewn booklet before placing cover material.

6.3.2 There shall also have seam pressing provision before gluing.

6.3.3 It shall have suitable control system for controlling the amount of glue, positioning of the booklet for gluing etc. There shall also have provision for Seam gluing to switch ON /OFF manually.

6.4 FEEDER FOR COVER MATERIAL (BUCKRAM):

- 6.4.1 Fully automatic & non-stop Flat Feeder shall be provided to handle Cover Material (Buckram).
- 6.4.2 The covers (Buckram Sheets) shall be stacked in an automatic feeder.
- 6.4.3 The individual covers shall be taken off from the stack by suction air and shall have separating device.
- 6.4.4 Provision shall be made to refill the stack during machine operation.
- 6.4.5 The feeding system shall be equipped with missing and double sheet monitoring & control system.
- 6.4.6 The System shall be programmed in such a way that the cover material (Buckram) shall only be fed when 2-up layer is present.
- 6.4.7 The stack height shall be adjusted automatically.

6.5 GLUEING & PASTING STATION FOR PUR REACTIVE HOTMELT:

- 6.5.1 A PUR reactive hot melt gluing station shall be used for immediate curing after pasting operation.
- 6.5.2 The individual cover material (Buckram Sheet) shall be taken over by a suction plate or suitable mechanism to pass over the glue nozzle.
- 6.5.3 The PUR hot melt glued cover material shall be placed exactly onto the 2-up sewn layer.
- 6.5.4 The suction plate or suitable mechanism shall be designed to match the size of product configuration 266 mm x192 mm in 2 up formats.
- 6.5.5 The glue application device shall have adjustable mechanism for applying of required amount of glue.
- 6.5.6 It shall have PUR hot melt gluing, aggregate to handle cartridge up to 20 kg.
- 6.5.7 The system shall be equipped with a timer for preheating the hot melt.
- 6.5.8 The cover pasted with the sewn booklet shall be pressed perfectly by the pressing mechanism to paste each other for perfect / permanent bonding and to straighten the booklet.

6.6 RFID/UID CHIP READER:

- 6.6.1 RFID/UID Chip Reader(s) shall be provided in the delivery
- 6.6.2 If both the RFID/UID Chip in the booklet read as Ok, then the booklet shall be transported to the delivery.
- 6.6.3 In-case, if, both the Chips of the Inlay read as bad, then, rejected through Reject Gate.
- 6.6.4 Suitable Reject Gates shall be provided at appropriate place.
- 6.6.5 In-case, if, one Chip of the Inlay read as bad and another read as good then, booklet shall be transported to Delivery and the machine shall record the data accordingly
- 6.6.6 Industrial grade Control Console with suitable size LED Monitor shall be provided on this machine for recording of the batch data of the RFID/UID Inlay.
- 6.6.7 The RFID/UID Chip Tracking System shall be integrated with the machine functions for continuing and rejecting of RFID/UID Chip Inlay as per their results of the liveliness of the RFID/UID Chips in the Inlay.

6.7 REJECT GATE:

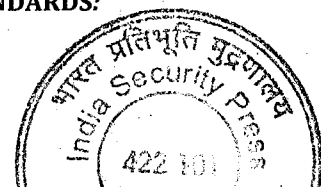
- 6.7.1 The suitable Reject Gate with Reject Tray shall be provided at suitable place in the delivery.
- 6.7.2 Both RFID/UID Chips of the booklet read as bad, shall be rejected through subsequent Reject Gate.

6.8 DELIVERY:

- 6.8.1 The 2 up booklets shall be transported on the conveyor and shall be arranged in the suitable arrangement.
- 6.8.2 The quantity of layers in each suitable arrangement shall be selectable through the selector to be provided.
- 6.8.3 The distance between each suitable arrangement shall be enlarged after reaching pre-selected quantity of layers in the suitable arrangement.
- 6.8.4 The Integrated counting device shall be provided on the delivery and shall display in final delivery, reject gate, in-feed or else etc.

7.0 HOT GOLDEN COLOUR FOIL STAMPING, HEAT CREASING OF 2-UP BOOKLET, 1-UP SPLITTER FROM 2-UP, CENTRE FOLDING OF 1-UP /2-UP BOOKLET, HEAT PRESSING OF 1-UP BOOKLET AND PROFILE DIE CUTTING OF FINISHED e-PASSPORT BOOKLET OF ICAO STANDARDS:

7.1 SUITABLE FEEDER FOR 2-UP SEWN LAYER:

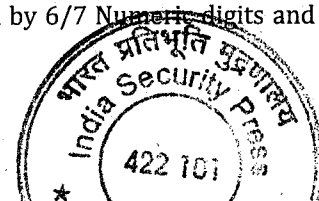


- 7.1.1 The feeder shall be designed to handle thick & rigid 2-up Passport Booklets; it shall be fully automatic & non-stop suitable feeder.
- 7.1.2 The feeder shall be capable to feed 2-up sewn booklet embedded with RFID/UID inlay (Teslin / Polycarbonate type substrate) & pasted with cover material of sizes given in the product configuration.
- 7.1.3 The feeder shall have facility to refill booklets from the top during machine run to achieve the continuous operation.
- 7.1.4 The lowest booklet shall be separated from the pile & while separating, the suitable mechanism should retain the remaining pile. The separated 2-up booklet shall be taken by the transport system of the machine.
- 7.1.5 Double booklet and missing booklet monitoring and control system shall be provided.
- 7.1.6 A suitable booklet orientation monitoring & control system shall be provided to check the correct orientation of the booklet.
- 7.2 **RFID/UID CHIP READER:**
- 7.2.1 Two no's of RFID/UID Chip Readers shall be provided before Golden Color Foil Stamping Station.
- 7.2.2 In-case, both the Chips of the Inlay read as good, then, the 2 up booklets shall be transported further for Golden Color Foil Stamping.
- 7.2.3 In-case, both the Chips of the Inlay read as bad, then, the 2 up booklets shall be rejected through the Reject Gate without Golden Color Foil Stamping.
- 7.2.4 A Reject Gate shall be provided at suitable place after single up cutting Station but before die-cutting station.
- 7.2.5 In-case, one Chip of the Inlay read as bad and another read as good then, shall continue with Golden Stamping and the machine shall record the data accordingly in server and the bad single up booklet shall be rejected through subsequent Reject Gate.
- 7.3 **HOT GOLDEN COLOUR FOIL STAMPINGSTATION:**
- 7.3.1 The 2-up booklet or 2-up cover material shall be transported to the Hot Golden Colour Foil Stamping Station and the 2-up booklet or 2-up cover material shall be hot-stamped by Embossing Plate.
- 7.3.2 The Embossing Plate shall have two identical engraving designs for embossing of 2-up booklets or 2-up cover material. The sample of the block shall be given to the successful bidder.
- 7.3.3 The hot stamping head shall have provision to adjust the height.
- 7.3.4 The station shall be fitted with automatic golden colour foil-reel fed system.
- 7.3.5 The used/ leftover foil shall be wound automatically for further disposal.
- 7.3.6 The temperature of the embossing plate shall be monitored & controlled by an Electronic Temperature Controller.
- 7.3.7 The feed length, temperature and stamping time shall be adjustable & set through the Control Touch Panel / HMI of the Station. The stamping pressure shall be manually adjustable with display on pressure gauge.
- 7.3.8 The proper mechanism shall be provided to protect the booklet/cover material from the heating plate during the stoppage of the machine due to operational interruption/error.
- 7.3.9 The machine shall not run until & unless achieving set temperature of the stamping plate.
- 7.3.10 There shall be provision of Auto/Manual operation of Stamping station for setting purpose.
- 7.3.11 The Stamping station shall have suitable sensor/provision to sense presence of booklet. If there is no booklet then stamping shall not take place automatically.
- 7.4 **CAMERA SYSTEM FOR GOLDEN COLOUR FOIL EMBOSSING:**
- 7.4.1 Inspection Camera System shall be provided to check the quality of golden colour stamping of 2-up booklet or 2-up cover material.
- 7.4.2 High resolution Camera(s) shall be provided to monitor the quality of the golden colour stamping on 2-up booklet along with suitable illuminated lamps to focus the two golden stamping areas on the 2-up booklet.
- 7.4.3 The System shall have a **TEACH-IN-MODE** for selection of Templates of Golden colour stamping and template storage facility for at-least 50 nos. of templates.
- 7.4.4 The camera system shall be capable to check the quality of stamping in the ROI and X-Y position of the emblem and if quality is not good then shall reject through subsequent reject gate.

- 7.4.5 Separate Industrial grade LED monitor with controller shall be provided to monitor the stamping quality in integration with main Control Console.
- 7.4.6 Threshold levels of the camera system for reject for stamping quality shall be adjustable.
- 7.4.7 The 2-up booklet or 2-up cover material rejected by the camera shall be sent to the subsequent Reject Gate.
- 7.5 REJECT GATE:**
- 7.5.1 Suitable nos. of Reject Gates with Reject Box/tray shall be provided at appropriate place.
- 7.6 2 UP TO 1-UP BOOKLET CUTTING STATION:**
- 7.6.1 A splitter for cutting of 2-up booklet to 1-up booklet shall be provided.
- 7.6.2 A suitable type cutting mechanism, that requires minimum maintenance, shall be provided for cutting and splitting of 2 up booklets.
- 7.7 HEAT CREASING STATION:**
- 7.7.1 Heat creasing station shall be provided to remove the stiffness (memory effect) of the Teslin like material of the RFID/UID Inlay laminated along with the cover material (buckram).
- 7.7.2 The suitable high-quality heating element shall be provided, and the temperature for the heat creasing shall be controllable through HMI/Control Console.
- 7.7.3 The proper mechanism shall be provided to protect the booklet from the heating mechanism during the stoppage of the machine due to operational interruption/error.
- 7.8 CENTRE FOLDING FOR BOOKLET:**
- 7.8.1 Latest & trouble-free Centre Folding Station to fold the 1-up booklet/2-up booklets in the Centre shall be provided.
- 7.8.2 It shall be driven by suitable drive mechanism with automatic provision to decide the speed of folding as per product configuration vis-à-vis matching M/c output speed to achieve perfect folding of the booklet.
- 7.8.3 It shall have suitable mechanism like spring loaded pressure rollers /turning belts or otherwise, to achieve perfect centre folding on different types of booklets having different thickness and shall have easy adjustment mechanism.
- 7.8.4 It shall be synchronized with the machine speed.
- 7.8 HEATED SPINE PRESSING & SPINE ROLLING STATION:**
- 7.8.1 After folding of 1-up booklet/2-up booklet, shall be heat pressed and spine rolled to eliminate the memory effect of Teslin like substrate of Inlay in the booklet.
- 7.8.2 The Pressing mechanism shall be provided with high quality heating element and the temperature of the heat creasing station shall be controllable through HMI/Control Console.
- 7.8.3 The upper & lower bars of the pressing tool shall be heated up to the set temperature.
- 7.8.4 The proper mechanism shall be provided to protect the booklet from the heating mechanism during the stoppage of the machine due to operational interruption/error.
- 7.9 PROFILE DIE CUTTING STATION / (S) FOR FINISHED e-PASSPORT BOOKLET OF ICAO STANDARD.**
- 7.9.1 A high quality suitable, rugged and sturdy Profile Die Cutting Station/(s), that requires minimum maintenance shall be provided.
- 7.9.2 The die tool shall be driven by suitable motor-drive mechanism for achieving high speed profile cutting. The cutting speed shall be constant irrespective of machine speed.
- 7.9.3 The final size and shape of the Passport booklet shall be achieved by one single profile die cut i.e. to trim the three side of the booklet.
- 7.9.4 The die tool shall correspond exactly to the dimensions of the booklet and to trim the 3-edges as well as corner-rounding in 1-STROKE. The size of the finished booklet shall not deviate the dimensions (125 mm x 88 mm) ± 0.3 mm. (ICAO Standard)
- 7.9.5 The upper die cutting tool shall be made up of high grade & high-quality steel material with adjustable bottom die made up of brass.

- 7.9.6 The upper die shall be opened and product shall be lifted from bottom die during the stoppage of the machine due to interruption/error to prevent the damage to the booklet.
- 7.9.7 The extraction unit shall be provided at profile die cutting station / (s) to collect the cutting waste of the booklet and shall be rejected through the Waste Conveyor System/(s).
- 7.9.8 A proper illuminated lamp shall be provided into this station.
- 7.9.9 A suitable trolley with holding mechanism shall be provided along with machine for replacement of die tools.
- 7.9.10 There shall have auto/manual/inch mode selection for die setting/replacement.
- 7.9.11 It shall have provision to sense the presence of booklet before die cutting operation, if there is no booklet then die cutting operation shall not take place, during that instant.
- 7.10 **WASTE CONVEYOR SYSTEM:**
- 7.10.1 Automatic waste conveyor system shall be attached with the Profile Die Cutting Station/(s) and the cutting waste shall be conveyed outside the machine. The collection Container shall be provided that may be at distant place from the machine for waste collection.
- 7.11 **RFID/UID READER:**
- 7.11.1 One RFID/UID Chip Readers shall be provided before Delivery.
- 7.11.2 In-case, the Chip in the finished booklet read as good, then, the booklet shall be transported to Delivery System.
- 7.11.3 In-case, the Chip in the finished booklet read as bad, then, the booklet shall be rejected through the Reject Gate.
- 7.11.4 Industrial grade Control Console with suitable size LED Monitor shall be provided on this machine for recording of the batch data of the RFID/UID Inlay.
- 7.11.5 The RFID/UID Chip Track& Trace System shall be integrated with the machine functions for continuing and rejecting of RFID/UID Chip Inlay.
- 7.12 **REJECT GATE:**
- 7.12.1 The suitable nos. of Reject Gates with Reject boxes/trays shall be provided at suitable places before the delivery of the booklet.
- 7.13 **DELIVERY & STACKING SYSTEM:**
- 7.13.1 A delivery System shall be designed in preferably such a way that the Passport booklets are stacked in sets of 5/10/20 booklets as selectable, or as the case may be, brought in suitable arrangements for easy handling by the operator.
- 7.13.2 A Conveyor System of the delivery shall be capable to stack at least 200 booklets
- 7.13.3 A group of 10 booklets shall be collected by the operator from the delivery stack.
- 7.13.4 The system shall be programmed in such a way that only good booklets shall be delivered and the booklet rejected by various monitoring systems shall be rejected through Reject Gate provided before delivery.
- 7.13.5 Point no. 7.13.1 to 7.13.3 will be applicable in case 2 or more separate die cutting station is provided as a part of machine design; else the booklets shall be transported to subsequent station through suitable mechanism.
- 7.13.6 In-case of inline subsequent operation, the booklet shall be fed for further operation of Gothic Numbering and Laser Perforation after die cutting operation. In such design there shall be a provision of delivery station (selectable mode) to collect the die cut booklet into this delivery instead of passing to Gothic Number.
- 8.0 **GOTHIC NUMBERING, LASER PERFORATED NUMBERING, BAR CODE PRINTING CUM LABEL APPLICATOR:**
- 8.1 **BOOKLET FEEDER:**
- 8.1.1 The suitable feeding system, in case of separate die cutting station, shall be designed where the Passport booklets shall be hand fed in the feeder.

- 8.1.3 A Conveyor System of the feeder shall be capable to stack at least 200 booklets.
- 8.1.4 The booklets shall be forwarded automatically one by one into the transport system of the machine.
- 8.1.5 The transport system shall be equipped with booklet position control system i.e. the booklet shall always be transported with front Cover in upward direction. The Golden color stamping of the booklet can be taken as reference to control the booklet position/orientation.
- 8.1.6 In case, the booklet is wrongly fed the machine shall stop with error indication of wrong booklet position which enable the operator to correct the position of the booklet.
- 8.1.7 In case, the machine design is such that, after profile die cutting the booklet is moved to further operation of Gothic and Laser Numbering, then the feeder in case shall be continuous for further operation. In that case there shall also be a provision of an additional feeder with a capacity of at-least 50 booklets, which shall be provided after die cutting and before 3X Page Opening station to process already Golden Stamped 1up die cut booklet for Numbering Operation.
- 8.2 RFID/UID CHIP READER:**
- 8.2.1 One RFID/UID Chip Reader shall be provided before or after Gothic numbering taken place.
- 8.2.2 The RFID/UID Chip Reader shall be interfaced with the machine Controller and shall interact with the RFID/UID chip Inlays. (To interlink Chip Inlay Parameter and Passport Number).
- 8.2.3 The processing time of the RFID/UID Reader shall be fast enough and shall not affect the full rated speed of the machine.
- 8.2.4 In case of failed result, the Passport booklet shall not be processed and shall be rejected through subsequent Reject Gate.
- 8.2.5 The data shall be recorded accordingly both by Main Controller of the machine and Chip Track & Trace System.
- 8.2.6 Industrial grade Control Console with suitable LED Monitor shall be provided on this machine for recording of the batch data of the RFID/UID Inlay.
- 8.3 3 x OPENING STATION :(PAGE OPENING)**
- 8.3.1 3 x Opening Stations shall be provided before feeding the booklet to Gothic Numbering station to open the Cover page, HAUV laminate film, Data page and Polycarbonate sheet, in case may be.
- 8.3.2 The second Opening Station shall be used to open the HAUV film and Polycarbonate sheet, in case may be.
- 8.3.3 A de-ionization Electrostatic Device should be installed before 2nd Opening Station to eliminate the static charge of the HAUV film/ Polycarbonate sheet.
- 8.3.4 Thickness controller should be provided to ensure that only 3 pages are opened or else should be sent to the Reject Gate to avoid the Gothic numbering in the wrong place.
- 8.3.5 The opening stations shall be provided with page scanner to monitor the correct page opening.
- 8.3.6 The system shall be compatible with polycarbonate sheet also, as the case may be.
- 8.4 CRN IMPACT NUMBER PRINTING OF GOTHIC NUMBERS ON THE OPENED DATA PAGE FOR SERIAL / RANDOM NUMBER:**
- 8.4.1 The impact Numbering System shall print the number at the designated position on the front data page of the Passport booklet by black carbon ribbon with penetrating ink with thermal/non-thermal transfer whatever the case may be.
- 8.4.2 The System shall be suitable for printing of Sequential and Random Numbers. The numbering Box shall be electronically operated & controlled and to print numbers in any sequence/random manner.
- 8.4.3 The Numbering Unit shall have provision for printing up to 9 characters. Out of 9 characters 2 characters as prefix of Alpha-Alpha, Numeric-Alpha & Alpha-numeric followed by 7 Numeric digits. It shall also print 8 characters or less. Out of 8 characters 2 characters as prefix of Alpha-Alpha, Numeric-Alpha and Alpha-Numeric followed by 6 Numeric digits.
- 8.4.4 The software shall be developed in such a way that, it shall be possible to the use either single or double characters as a prefix viz: 1 Alpha character followed by 6/7 Numeric digits Or 2 Alpha characters followed by 6/7 Numeric digits Or Numeric-Alpha characters followed by 6/7 Numeric digits and vice versa. There shall be also provision of Only Numeric up to 9 characters.



- 8.4.5 The System shall be designed for easy changeover to print Gothic Number either with 9 Characters or less with the configuration as mentioned in the above point 8.4.3 and 8.4.4.
- 8.4.6 During Numbering operation, the booklet shall be held with perfect alignment.
- 8.4.7 The size, font, style and position of the number shall be as per sample. The sample will be provided as & when required to the successful bidder.
- 8.4.8 The system shall be designed such that, synchronization and interfacing of Gothic number, Laser perforation number and Bar Code number & RFID/UID Chip Parameter and with the Main Controller for perfect integration and matching of all identical data (Numbers) takes place. The same shall be cross checked both by camera & database control console.
- 8.4.9 Two Nos. Complete Electronic Numbering Boxes shall be provided along with the machine as a spare.
- 8.4.10 An additional set of spare numbering wheels containing all alphabets and numbers with 0-9 as a spare shall be provided.
- 8.4.11 For feeding the sequential or random Gothic Numbering to the Gothic system as specified in point no. 8.4.3 and 8.4.4, there shall be a provision of separate computer/server/work station for feeding the required booklet data. That shall not be a part of the machine work station/s.
- 8.4.12 There shall be provision to "Bypass", Gothic numbering station during remake process i.e. only Laser perforation and bar-coding or as required by the operator

8.5 **CAMERA MONITORING SYSTEM FOR PRINTED GOTHIC NUMBER:**

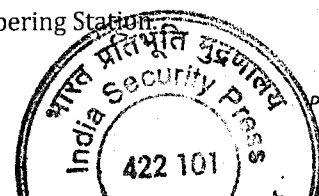
- 8.5.1 A unique Vision Camera System shall be provided to check the quality of printed Gothic Number of the 1-up booklet including transfer into the database for subsequent Laser Perforating Number.
- 8.5.2 After Gothic numbering, the Passport booklet in opened condition shall be transferred to the position where the camera can read & ensure correct printed gothic number in the Region of Interest (ROI).
- 8.5.3 High resolution Camera shall be provided to monitor the quality of the printed gothic number along with suitable illuminating lamp to focus the area of the gothic number on the Passport booklet.
- 8.5.4 A separate LED monitor shall be provided at Gothic Numbering Station to monitor the printed gothic number in integration with main Control Console.
- 8.5.5 The System shall have a **TEACH-IN-MODE** method for template setting.
- 8.5.6 Threshold levels of the camera system shall be adjustable.
- 8.5.7 In case of wrong numbering or the number out of ROI, the booklet shall be rejected without laser numbering and bar coding.
- 8.5.8 The Gothic Numbering shall be interfaced with Laser Perforation Numbering, Bar Code printing, RFID/UID Chip Parameter and with the Main Controller for perfect integration, matching and marrying of all these identical data (Numbers).

8.6 **3 x OPENING STATION: (PAGE OPENING)**

- 8.6.1 3 x Opening Stations shall be provided after Gothic Numbering station with provision to use any one of the opening stations.
- 8.6.2 One Opening Station shall be used to open HAUV film by suitable angle.
- 8.6.3 Already 3 pages opened booklet (opens before Gothic Numbering Station) to be transported to next Opening Station to open the HAUV film to facilitate Laser Perforation Numbering to rest of the booklet including Back Cover consists with RFID/UID Chip Inlay.
- 8.6.4 A De-ionization Electrostatic Device should be installed before Opening Station of HAUV film to eliminate the static charge of the HAUV film.
- 8.6.5 Thickness Controller or Monitoring Camera should be provided to ensure opening of HAUV film or else should be sent to the Reject Gate to avoid the Laser perforation numbering to the unopened booklet.
- 8.6.6 The opening stations shall be provided with page scanner to monitor the correct page opening.
- 8.6.7 The system shall be compatible with polycarbonate sheet also, as the case may be.

8.7 **LASER PERFORATION NUMBERING SYSTEM:**

- 8.7.1 The Passport booklet printed with Gothic Number and verified as OK by the Gothic Number Camera Monitoring System shall be transported to the Laser Perforation Numbering Station



- 8.7.2 A sealed RF excited CO₂Laser System of Class-I shall be provided to perform the laser perforated number on the Passport booklet of Conical **in shape (The perforated holes shall be bigger at the entry of the laser beam and smaller at exit of the laser beam)**. This is mandatory to maintain the uniformity of existing system for laser perforated numbering of Passport booklets.
- 8.7.3 The laser perforation numbering to all the pages of the booklet except Front cover, Two HAUV films/ Polycarbonate film (as applicable) and Front Data page shall be done.
- 8.7.4 The Laser Numbering System shall perforate up to 9 characters. Out of 9 characters 2 characters as prefix of Alpha-Alpha, Numeric-Alpha and Alpha-Numeric followed by 7 Numeric digits. It shall also have provision to perforate 8 characters or less by means of laser beam. Out of 8 characters 2 characters as prefix of Alpha-Alpha, Numeric-Alpha and Alpha-Numeric followed by 6 Numeric digits.
- 8.7.5 The software shall be developed in such a way that shall be possible to the use either single or double characters as a prefix viz: 1 Alpha character followed by 6/7 Numeric digits Or 2 Alpha characters followed by 6/7 Numeric digits Or Numeric-Alpha characters followed by 6/7 Numeric digits or vice versa. There shall also be provision for only Numeric digit perforation up to 9 characters.
- 8.7.6 The System shall be designed for easy changeover to perforate Number either with 9 Characters or less with the configuration as mentioned in the above point 8.7.4 and 8.7.5.
- 8.7.7 The system shall be provided with programmable control of laser beam through X & Y axis of the number by means of high-speed X & Y galvo. The matrix of the number shall be '**4 x 5 Matrix'(X-4 & Y-5)**. The matrix layout for all alpha & numeric characters shall be provided along with the machine and shall have access to the system by purchaser for required changes.
- 8.7.8 The position of the number shall be adjustable through controller in X & Y direction to focus the ray bundle (Laser beam) on the Passport booklet through optical lens.
- 8.7.8 The direction of the laser perforation numbering from the back cover to inside the complete booklet except Front cover, Two HAUV films / Polycarbonate film (as applicable) and Front Data page and the number shall be properly readable.
- 8.7.9 The hole diameter at the entry of the laser beam shall be 0.7 mm.
- 8.7.10 The depth of the laser perforation (penetration capacity) shall be suitable and adjustable to the booklet thickness varying from 2 to 7 mm.
- 8.7.11 The synchronization, mapping/marrying and interfacing of Gothic number, Laser perforation number, Bar Code number and RFID/UID Chip parameter shall be made. The laser number shall be identical to Gothic number of the booklet. The same shall be cross checked both by camera & database of control console.
- 8.7.12 The quality of the laser perforation number on the Passport booklet shall be sharp, spotless and clear.
- 8.7.13 The Laser Numbering System shall be equipped with suitable Cooling System with interlocking facility for the protection of Laser system if cooling system fails.
- 8.7.14 The Laser Perforate Numbering System shall also be equipped with Laser waste Exhaust System of suitable capacity as per the latest INTERNATIONAL SAFETY / ENVIRONMENTAL STANDARDS AND NORMS to remove the toxic gases and dust produced during laser perforation.
- 8.7.15 The Laser Perforate Numbering System shall be provided with Certificate of 'DECLARATION OF CONFORMITY' according to latest ISO / IEC guidelines.
- 8.7.16 The System shall have Certificate of compliance in respect of safe use of Lasers for the safety of the human health and radiation / emission limits.
- 8.7.17 The System shall be 100 % radiation-proofs. The output laser beam to be applied on the object shall also be sealed completely with interlocking safety guards / doors. The system shall be indicated with required labels containing with safety guidelines.
- 8.7.18 The Safety Test Certificate and other Certificate of Conformity shall be provided along with the system.
- 8.7.19 There shall be provision of Remake mode to booklets which have chip OK, Gothic number OK but rejected due to some other reasons before Laser Perforation. In that process the system shall perform all the required process i.e. Laser Perforation and Bar-coding etc. according to its already printed Gothic Number. During this Remake mode, Gothic numbering process shall not take place.
- 8.7.20 There shall also be provision to keep Laser Perforation Numbering to be bypassed during remake of barcode or as per operator requirement/ also have a provision for only Bar-coding operation according to its Passport number.

8.8 CAMERA MONITORING SYSTEM FOR LASER PERFORATION NUMBER:

- 8.8.1 A High resolution Unique Vision Camera Monitoring System shall be installed for monitoring the laser Number by through hole quality check by suitable method to check the quality of the Laser Numbering.
- 8.8.2 The through hole inspection shall be provided which shall either check through all the perforated pages of the booklet or at least last perforated page of the booklet, by the monitoring system with high resolution camera and illumination system.
- 8.8.4 Suitable opening and holding mechanism for the above shall be provided.
- 8.8.5 A separate LED monitor with Controller shall be provided at Laser Numbering Station to monitor the quality of Laser Perforated number, in integration with main Control Console.
- 8.8.6 The rejected booklet by the system shall be sent to the subsequent Reject Gate without bar-coding.
- 8.8.9 The laser perforate number of the booklet verified by the camera shall be transported for further operation in complete closed condition to enable applying of barcode label on the backside of the booklet.

8.9 ONLINE BARCODE PRINTING CUM LABEL APPLICATOR AND SCANNER:

- 8.9.1 Online Barcode Printer cum label applicator unit shall be installed after Laser Perforated numbering station to print Alpha-numeric number and 1 D BARCODES of the same number, identical to Gothic & Laser Number.
- 8.9.2 The label printed with Alpha-Numeric Number and Barcodes shall be applied on the back side of the Passport booklet without affecting the speed of the rated speed of the machine.
- 8.9.3 The application of the unit shall be properly integrated & synchronized with the main control of the machine.
- 8.9.4 The resolution of the printer shall be minimum 300dpi.
- 8.9.5 It shall be provided with suitable label un-winder unit.
- 8.9.6 The test print facility of the printer shall be provided.
- 8.9.7 The system shall be provided with online barcode scanner to check the barcode. In case, the barcode is not correct or missing, the booklet shall be sent to subsequent Reject Gate.
- 8.9.8 Remake mode of Barcode printing may be provided to the Ok booklet by means of Gothic Numbering, Laser Numbering & OK Chip Parameter read by Reader.

8.10 RFID/UID CHIP READER BEFORE FINAL DELIVERY:

- 8.10.1 1 RFID/UID Chip Reader, integrated with Online Barcode Scanner shall be provided at the Delivery to crosscheck RFID/UID Chip Inlay Parameter with Passport Number/Barcode.
- 8.10.2 If, the RFID/UID Chip of the booklet is read as OK by the reader the booklet shall be transported to the delivery or shall be sent to reject gate.
- 8.10.3 In case, the RFID/UID Chip of the booklet is OK, but, if it rejects due to bad Bar code, then the booklet shall be rejected.
- 8.10.4 The RFID/UID Chip Tracking System shall be integrated with the machine functions for continuing and rejecting of booklet as per their results of the liveness of the RFID/UID Chips in the Inlay.

8.11 DELIVERY & STACKING SYSTEM:

- 8.11.1 A delivery System shall be designed in preferably such a way that the Passport booklets are stacked in sets of 5/10/20 booklets as selectable, or as the case may be, brought in suitable arrangements for easy handling by the operator.
- 8.11.2 A Conveyor System of the delivery shall be capable to stack at least 200 booklets in vertical orientation on it.
- 8.11.3 A sets of 5/10/20 booklets, or as the case may be, shall be collected by the operator from the delivery stack.
- 8.11.4 The system shall be programmed in such a way that only good booklets shall be delivered and the booklet rejected by various monitoring systems shall be rejected through Reject Gate provided before delivery.
- 8.11.5 The provision shall be made for an additional Combo-box scanner including Barcode Scanner & RFID/UID Reader at the final stage after the delivery of finished booklet. The Combo-box scanner shall be an offline provision for verification and mapping of Passport number with chip inlay parameter of booklets.

9.0 INDUSTRIAL CONTROL CONSOLES / HMIs AT VARIOUS LOCATIONS OF THE SYTEM:-

The entire system shall be provided with Industrial grade Control Consoles / HMIs and shall have following features: -

- 9.1 Touch Screen Industrial Grade Control Consoles /HMIs of reputed makes conforming to international standards.
- 9.2 Latest Operating System at the time of supply shall be provided and the configuration shall be user friendly.
- 9.3 It shall have digital interface compatibility with machine PLCs and other electronic gadgets.
- 9.4 The Application Software shall be user friendly and open-ended.
- 9.5 The System shall be equipped with Graphical User Interface (GUI) combined with touch screen menu driven self-explaining operation interface with audible & visible warning and error signals & messages on the Control consoles/HMIs.
- 9.6 The Consoles/HMIs shall display current M/c status, speed, errors, warnings etc.
- 9.7 i) Uploading and downloading of PLC programme shall be possible through Industrial Control Console. Or
ii) Bidder is required to provide software back-up and technical support.
- 9.8 Service Field Master' (Service Lap Top) complete with integration software and back up of all the software & all license copies shall be supplied along with the machine for fault diagnostic purpose, etc.
- 9.9 Provision to monitor and check the status of input/output signals of the PLC/DCS and I/O units shall be made in the Consoles in Service Menu with password protection or through 'Service Field Master' (Service Lap Top).
- 9.10 Various configurations shall be possible from the Consoles / HMIs.
- 9.11 All the computers in the system shall be provided with RAID Level – 1Disk System.
- 9.12 All the computers/ control consoles in the system shall be equipped with suitable capacity of UPS with software interface for defined start-up and shutdown process of the system.
- 9.13 Remote Access facility shall be provided for remote services as well as software updates from the OEM, as and when required by the user.

(a) If the firm not willing to provide the detail of PLC Programme, the remote access service shall be free-of-cost at least for the period of 10 years, after acceptance of the system and

(b) If the firm will provide PLC programme, then the Remote Access Service shall be free of cost during warranty period.

10.0 TRACK & TRACE SYSTEM WITH CENTRAL DATABASE (CDB):

- 10.1 The complete system shall be covered with 'Track & Trace System with Central Database (CDB) for Sentinel workflow. The basic essence of the Track and Trace server is to keep track, trace, accounting of each Inlay and e-Passports processed through the entire system and available throughout the life time and shall have required storage facility with suitable RAID storage to record data for at least 150 million e-Passports. The Entire machine Group shall have Centralized Database Server connected suitably with all the machines of the entire system for the Real Time Track and trace and accounting of each and every inlay being processed through the entire system.
- 10.2 All software and hardware of the 'Track & Trace System with Central Database (CDB)' must be of latest version. The above system shall have facility of printer, key board/mouse/Monitor, SAP integration facility for migration of data as per requirement. The system shall have authentication based separate Quality Checking workstation for the e-Passports during quality examination. To have real time processing, the processing time of the UID Reader shall be fast enough and shall not affect the full rated speed of the machine.
- 10.3 In case of remake booklets where, the inlay chip is already read by this machine system with ok chip and booklet is rejected/removed for any other reason and if such booklet is re-fed in the machine for remake at any time then the machine shall fetch the data of the RFID/UID Inlay from machines data base / central data base and shall process further.
- 10.4 The data storage of the system must be designed in such a structure/way so that in case of failure of any hard disk, the complete data can be restored/ retrieved.
- 10.5 The System shall have data import/export facility of Inlay data in EXEL format.

- 10.6 Each processing machine shall have facility of hand held RFID/UID Chip Reader for physical rejection with authentication key.
- 10.7 **The system shall generate following minimum reports:-**
Daily production data sheet containing detailed information of all booklets and RFID/UID Chip Inlay passed through all the machine as well as sub Stations of the entire machine group.
Detailed information of Total number of Inlays processed through Inlay pasting machine complete with OK/NOK Chips and rejected through rejection gates, total number of booklets with Chip Inlay parameters, OK/NOK Inlays, booklets rejected through various gates, OK/NOK/pending booklets, booklets with Ok chip but marked bad by hand held RFID reader, substation/machine wise, Shift wise, Date /Date Range wise, Passport number batch wise , RFID/UID Chip Inlay parameters wise .Apart from this, there shall be provision to fetch customized reports as per requirement. Other than this the successful bidder shall have to generate any other report as required by ISP at the time of trial runs.
- 11.0 **GENERAL REQUIREMENTS:**
- 11.1 The above technical specifications are a broad process requirement. The bidder shall submit their process flow along with the schematic layout, M/c configurations details for the complete State-of-the-art fully Automatic & Integrated e-Passport Booklet Manufacturing System capable to produce highest quality of e-Passport Booklets as per Doc. 9303 of ICAO standard and specify the changes from the above broad requirement for easy reference. However, the acceptance or rejection will be the discretion of the purchaser. The Schematic layout should show & mention the above process requirements for our easy reference and confirmation that all the process requirements, monitoring & control systems shall have been covered in the offered System.
- 11.2 The Machines & Systems shall be suitable to operate 3 Phase, 415 V +/-6%, 50Hz, TPN power supply.
- 11.3 The machines shall be designed ergonomically, be user-friendly and shall have easy access to various operational adjustments.
- 11.4 The machine shall be designed and provided with latest & reputed make PLC/DCS System.
- 11.5 All the switchgears, electrical and electronics equipments, subassemblies/subunits, auxiliaries, mechanical, hydraulics and pneumatics systems etc. shall be of reputed makes as well as of latest proven technology, conforming to international standards and its support and services are to be easily available in India.
- 11.6 All the required motors shall have '**Energy Efficient & Harmonic Distortion- Free**' A.C Frequency / Servo Drives for smooth functioning of Speed /Torque.
- 11.7 All the machines shall be designed with latest PLC / DCS System.
- 11.8 Provision for easy and quick changeover facility on varied products (4 pages to 64 pages booklet).
- 11.9 **All the feeder, reject gates and delivery units shall have integrated Electronic Counters.**
- 11.10 All wiring shall be laid in properly secured PVC trays; all control wires should bear wire number/permanent identification mark tags for easy identification.
- 11.11 Suitable Safety guards / devices should be provided with proper integration.
- 11.12 The system consisting of various processing machines, shall be provided with Centralized Lubrication System to provide lubrication to all the rotating parts of the machine.
- 11.13 The firm shall mention total Electrical connected load of the machine along with its auxiliary equipments with required Power Supply Cable details, required ambient temperature & relative humidity for all the machines, detailed dimensions of the machines viz. height, length, width & weight, required air pressure and air flow for the system. However, necessary compressor air arrangement will be arranged by the Purchaser.
- 11.14 The firm shall provide the detail foundation diagram and requirement of various modules and auxiliary units.
- 11.15 Complete System (Fully Automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System) shall be designed to have provision to upload all machine's information data. (i.e. machine's start time, machine's stop time, total machine's operation hours, machine's breakdown time, in feed quantity, out-put quantity, reject quantity, real time machine operation speed in Graphical view, log details etc.) per shift basis with Management Information System like SAP being used in ISP. Template for these data communication will be provided by ISP to the successful bidder. The firm shall provide all the necessary software and services with perpetual licenses required for integration of the data with the SAP ERP.

The system shall also have provision to generate machine wise as well as consolidated system report containing all above mentioned machine's information data. The report shall be generated on daily, weekly, monthly, yearly and for any specified period range as per requirement for viewing as well as to take print out.

- 11.16 RFID/UID chip reader and Track and Trace System shall be suitable to different types of Inlays. However, the actual type of the RFID/UID Chip Inlay to be used by ISP will be conveyed at later stage.

12.0 **SAFETY AND PRODUCT STANDARD:**

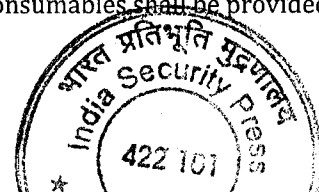
- 12.1 The entire system shall confirm to International Standards and International Machinery guidelines and applicable strength besides Safety regulations/ guidelines to total safety from rotating/moving parts, electrical hazards, dust, fumes, noise level, heat, chemicals, laser, U.V. lights, moisture etc. The certificate of the same shall be submitted along with the system.

13.0 **ESSENTIAL TERMS AND CONDITIONS:-**

- 13.1 The firm shall undertake to provide service backup for a minimum 10(ten) years from the date of acceptance of the system, as and when required, including software updates during this period if required.
- 13.2 For the warranty period the supply of the required spare parts should be on directly replaceable basis and thereafter on compatible basis.
- 13.3 The firm shall ensure to provide remote access service from date of acceptance as and when required by purchaser, free of cost for 5 year beyond warranty period and on payment basis thereafter.
- 13.4 The up-gradation of hardware and software part if any shall be the responsibility of supplier for a period of 10 years from the date of acceptance.

14.0 **TECHNICAL DOCUMENTATION: (3 sets in English language only)**

- The successful bidder shall provide the following technical documents along with the System in English language only of three (3) sets each: -
- 14.1 The firm shall provide complete schematic diagram of the entire system with process flow.
- 14.2 Instruction Manual, Operational Manual, complete detailed system functions and explanation of M/c configurations for the system and its auxiliary equipment shall be provided.
- 14.3 Entire block / location diagram of the machines with position of each and every component of the system shall be provided.
- 14.4 Maintenance Manual indicating daily, weekly, monthly, quarterly, half-yearly and annual maintenance details shall be provided.
- 14.5 Instruction Manuals of PLC/DCS, Industrial Control Consoles, HMIs, AC Frequency / Servo Drives and other major Control Gadgets of the System.
- 14.6 Complete mechanical drawing and sketches of the machine shall be provided.
- 14.7 Complete Electrical Circuit Diagrams of the entire systems. (Machine & Auxiliary Equipments).
- 14.8 Detailed Instruction Manuals of Sewing Heads, Gold Embossing Station, Gothic Numbering Station, Laser Numbering Station, Bar Coding Station and various Camera monitoring systems etc. shall be provided.
- 14.9 Programme and Cross Reference List of the PLC/DCS along with Ladder/Logic diagrams.
- 14.10 Complete back up in hard as well as soft copy of PLC/DCS, Drives, Consoles, HMIs and other Control Gadgets provided in the machine.
- 14.11 Parameter list of all the drives and major programmable electronic gadgets.
- 14.12 Complete schematic diagram and detailed manual of RFID/UID Chip Tracking System shall be provided.
- 14.13 Complete schematic diagram of Pneumatic & hydraulic System.
- 14.14 Complete list of mechanical & electrical spare parts list with detailed technical specifications with Id. Number/ Part Number/make & model.
- 14.15 Original & licensed Soft copies in respect of Operating System, Application Software, PLC/DCS, Driver, and HMIs and other electronic gadgets etc. shall be provided.
- 14.16 All the technical details of important input raw materials/consumables shall be provided.



15.0 PRE- DISPATCH INSPECTION:-

15.1 Three (03) numbers of officials may be deputed at suppliers site for carrying the Pre Dispatch Inspection (PDI) for 05 working days (excluding journey period) at Purchaser's cost. The purchaser will bear the cost of to & fro journey and accommodation.

16.0 TRAINING:-

16.1 Ten (10) numbers of officials may be deputed at supplier's site for conducting Operational & Maintenance training for 15 working days (excluding the journey period). The Purchaser will bear the cost of to & fro journey and accommodation. The training part includes the following:-

16.2 OPERATIONAL:-

16.2.1 Detailed working of the entire system as per the process flow.

16.2.2 All precise settings of the system.

16.2.3 Detailed operational settings and HMIs, job programming of the system through Control Consoles/HMIs.

16.2.4 Daily maintenance schedule.

16.2.5 Detailed training on Sewing Heads, Gothic Numbering Boxes, Laser head, Scan head, Bar Code Printer, and operational training for other essential subunits etc.

16.2.6 Safety measures and safe use of Laser system and precautions to the Operational crew while working on the laser system etc.

16.2.7 Complete trial run of the system for actual working.

16.3 MAINTENANCE (ELECTRICAL & IT):-

16.3.1 Sequential functions of the system.

16.3.2 Testing of the system and fault diagnosis/analysis through Control consoles/HMIs / Service Laptop.

16.3.3 Installation of System & Application software.

16.3.4 Reading, Uploading / Downloading of programme of PLC/DCS, HMI, Control Consoles, Drives etc.

16.3.5 Understanding of Circuit diagrams, PLC programme, Ladder Diagram, Drive Parameters etc. Detailed electrical maintenance training on all the essential stations, equipments, units and sub units, power supplies etc.

16.3.6 Replacement of Laser Heads, Optical lenses, Galvos and Settings and measuring of laser beam and safety measures while handling Laser system etc.

16.3.7 Operation and Maintenance in relevant to MIS part of the system.

16.4 MAINTENANCE (MECHANICAL):-

16.4.1 Complete settings and mechanical timings of all the gears, cams, driving belts and their synchronization with electrical timings and degrees of encoders.

16.4.2 Complete maintenance procedures of all the parts, units and sub units of the system.

16.4.3 Settings and maintenance of all Safety equipment's installed on the system.

16.4.4 Detailed training on profile die cutting station.

16.4.5 Format / Change over settings for different types of jobs on the system.

16.4.6 Complete working and fault rectification of all the systems and its auxiliary equipment's.

17.0 INSTALLATION, COMMISSIONING & TRAINING:

17.1 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 for minimum 20 working days at ISP's worksite.



SECTION VIII: QUALITY CONTROL REQUIREMENTS

A] FINAL ACCEPTANCE TEST (FAT):

- i) After successful installation, commissioning and training of the system and their auxiliary equipments, the FAT will be carried out for a period of 21 working days consisting of 8 hours shift per day, conforming to the machine configurations, rated machine speed, output etc. as per the tender specifications as given in the following table:

Sl. No.	Description	Parameters
1	Total number of working days	21 days
2	Number of shifts in day	1 Shift
3	Duration of each shift	8 Hours
4	Effective production time (excluding make-ready, operator's oriented stoppages, etc.)	7 hours
5	Average speed, 90% of the rated production speed of the machine	Minimum 45 booklets per minute
6	Targeted production per shift (in booklets)	At least 18,900 booklets of good quality.
7	Rated Speed of final output of the entire System	Minimum 50 booklets per minute
8	M/c rated speed demonstration. During every shift production at rated speed (\geq 50 booklets/minute)	At-least for 1 hour continuously.

- ii) If any parameter is not achieved due to any reason not attributed to the Purchaser, the acceptance test shall be conducted ab-initio; For not meeting output with the rated speed of the system as per the tender specifications and other parameters of the system, if not met. A fresh FAT will be conducted for a period of another 21 working days.
- iii) Important input raw material/consumables required for FAT shall be arranged by the successful bidder in concurrence to purchaser.

- B] FINAL ACCEPTANCE CERTIFICATE (FAC):** Upon satisfactory completion of FAT, a FAC will be issued to the representative of the firm, which will be mutually certified by the Supplier & Purchaser subject to fulfilment of all contractual obligations up to FAT.



SECTION IX: QUALIFICATION/ ELIGIBILITY CRITERIA

1.

(a) Experience and past performance:

a. The bidder (manufacturer or principal of authorised representative – hereinafter referred simply as 'The Bidder') should have manufactured, supplied, installed and commissioned at least one number of "State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD", with the same or higher specifications in last five years ending on 31.03.2023 (Bidders who follow calendar year as financial year the Date will be 31st December 2022).

b. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Copies of PO's and completion/experience certificates issued by customers to be provided in support of above.

Note: 'Start-ups, Micro and Small Enterprises' are exempted from 'Experience and Past Performance Criteria'.

(b) Capability, equipment and manufacturing facilities: The bidder must have an annual capacity to manufacture and supply at least one number of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD. The self-attested details shall be submitted along with bid.

Note: At the discretion of the purchaser, the Capacity / Capability Assessment / Verification of bidder / manufacturer firm(s) might be undertaken by a Committee or through a third party Technical Consultancy / Inspection agencies to ensure that the firm is/are identified and capable to supply the machine/item/material/product as required.

(c) Financial standing:

(i) **Average Annual Turnover** of the Bidder firm (manufacturer or principal of authorised dealer) during the last three years, ending on "31st March 2023 (Bidders who follow calendar year as financial year the Date will be 31st December 2022)", should be INR 217132771 / USD 2644642 / EURO 2356771 / JPY 368646471 as per the annual report (audited balance sheet and profit & loss account) of the relevant period duly authenticated by a Chartered Accountant / Cost Accountant in India and Certified Public Accountant / Chartered Accountant of other countries.

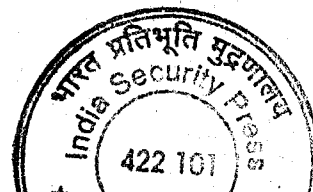
Note: 'Start-ups, Micro and Small Enterprises' are exempted from 'Average Annual Turnover Criteria'.

(ii) The Bidder should not have suffered any financial loss for more than one year during the last three years ending on "31st March 2023 (Bidders who follow calendar year as financial year the Date will be 31st December 2022)".

(iii) (a) The net worth of the bidder should not be negative on "31st March 2023 (Bidders who follow calendar year as financial year the Date will be 31st December 2022)".

(b) should not have eroded by more than 30% in the last three years, ending on "31st March 2022 (Bidders who follow calendar year as financial year the Date will be 31st December 2022)".

2. **Undertaking:** The following undertakings shall has to be submitted along with the offer, on firms letter head, duly sealed and signed by authorized representative of the bidder firm and/or principal manufacturer:



(i) Blacklisting: *We, solemnly declare that neither we nor any of our affiliates or subsidiaries – including subcontractors or suppliers for any part of the contract – do not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations.*

(ii) Agree to withdraw all deviations: *We agree to withdraw all the deviations, if any, unconditionally and accept all the terms and conditions of the tender document including the technical specifications.*

3. Along with all the necessary documents/ certificates required as per the tender conditions, the bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity (both technical and financial), for manufacture and supply of the required goods/ equipment, within the specified time of completion, after meeting all their current commitments.
4. All experience, past performance and capacity/ capability related data should be certified by the Authorized Signatory of the Bidder firm. The credentials regarding experience and past performance to the extent required as per eligibility criteria submitted by the bidder should be verified from the parties for whom work has been done.
5. *The 'Integrity Pact' which is enclosed at Section XX of this tender document will be deemed to be part of the contract. The 'Integrity Pact' pact essentially envisages an agreement between the prospective vendors / bidders and the buyer, committing the persons / officials of both sides, not to resort to any corrupt practices in any aspect / stage of the contract. Only those vendors / bidders, who commit themselves to such a pact with the buyer, would be considered competent to participate in this tender/bid.*
6. **Supporting documents submitted by the bidder must be certified as follows:**
 - (a) All copy of supply/ work order; respective completion certificate and contact details of clients; documents issued by the relevant Industries Department; National Small Industries Corporation(NSIC); manufacturing licence, annual report, etc., in support of experience, past performance and capacity/ capability should be authenticated by the by the person authorised to sign the tender on behalf of the bidder;
 - (b) All the financial data has to be duly certified by certified accountants e.g. duly authenticated by a Chartered Accountant / Cost Accountant in India and Certified Public Accountant / Chartered Accountant of other countries equivalent in relevant countries and should have valid UDIN (Unique Document Identification Number). The bidder has to submit a copies of audited financial documents (Balance sheets, Profit & Loss account statement, etc.), or Audited Annual reports in support of clause no. 1(c) above.
 - (c) Indian bidder or Indian counterparts of foreign bidders should furnish their Permanent Account Number.
7. **Other Eligibility requirements for the Bidders:**
 - (a) The application should be submitted in English Language. The authenticated copies of the documents in support of the applicant's claims must be submitted in **English language**.
 - (b) The bidder shall indicate and certify that the authorized signatory is competent and legally authorized to submit the tender and / or to enter into legally binding contract.
 - (c) Manufacturer / manufacturers under license or their authorized dealers who are exclusively appointed by the principal manufacturer to represent them shall be eligible to apply or to take part in the bid. One manufacturer can authorize only one agent.
 - (d) **Manufacturer's Authorization Letter:** Manufacturers/ manufacturers under license or their authorized dealers who are exclusively appointed by the principal manufacturer to represent them in the country shall be eligible to apply or to take part in the bid. The bidder shall submit the manufacturer's



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authorization letter to this effect as per the standard form provided under **Section VI** in this document. One manufacturer can authorize only one agent. In such cases order will be placed on Principal/ Manufacturer. Principal/ manufacturer shall meet the Qualifying criteria. There can be only one bid from:

- (i) The principal manufacturer directly or through one Indian agent on his behalf or
- (ii) The foreign principal or any of its branch/ division or
- (iii) Indian/ Foreign Agent on behalf of only one Principal.

(e) Names of organization(s)/ firm(s) with addresses and telephone numbers, fax numbers, email addresses to which they have successfully manufactured, supplied and commissioned the quoted/tendered product/system/machine during the last five years.

(f) **For Existing successful Past Suppliers:** In case the bidder (manufacturer or principal of authorised representative) who is a successful past supplier of 'The Product' in at least one of the recent past three procurements, who do not meet any or more of requirements above, would also be considered to be qualified in view of their proven credentials, for the maximum quantity supplied by him in such recent past.

Bidder to furnish stipulated documents in support of fulfilment of qualifying criteria. Non-Submission or incomplete submission of documents may lead to rejection of offer.



Section X: Tender Form

Date.....

To

.....
.....
.....

(complete address of SPMCIL)

Ref: Your Tender document No. dated

We, the undersigned have examined the above-mentioned tender enquiry document, including amendment No. ----, dated ----- (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver..... (description of goods and services) in conformity with your above referred document for the sum shown in the price schedule(s), attached herewith and made part of this tender.

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

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

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

We confirm that in case of downloaded Tender Document, we have not changed/ edited its contents. We realize that in case any such change is noticed at any stage including after the award of contract, we would be liable to action under clause 44 of the GIT.

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

We also solemnly declare as under:

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

(a) Company/ Partnership Firm/ Proprietary Concern/ Society/Trust/ NGO/others (please specify):.....

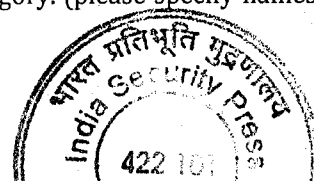
(b) Micro/ Small/ Medium Enterprise/ SSI/ Govt. Deptt/ PSU/ others:.....

(c) Name of MSME Registering Body (NSIC/DIC/KVIC/KVIB etc.):.....

(d) MSME Registration No. (with copy of registration):.....

(e) Udyog Aadhaar Memorandum No.....

(f) Whether proprietor/ Partner belongs to SC/ ST or Women category. (please specify names and percentage of shares held by SC/ ST Partners):.....





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

(a) Self-Certification for category of supplier:

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

(b) We also declare that:

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

3. Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017: Having read and understood the Order (Public Procurement No. 1) issued vide F.No.6/18/2019-PPD dated 23rd July 2020 (and its amendments if any) by Department of Expenditure, Ministry of Finance under the above provision and solemnly declare the following:

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

4. Debarment status: Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ dept. of Government of India or by any State Govt:

- Yes (with period of Ban)
- No. We, solemnly declare that neither we nor any of Our affiliates or subsidiaries-including subcontractors or suppliers for any part of the contract-do not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations.

5. Penalties for false or misleading declarations: I/ We hereby confirm that the particulars given above are correct and complete and also undertake to advise any future changes to the details. We understand that any wrong or misleading self-declaration by us would be violation of code of Ethics and would attract penalties as mentioned in this tender document, including debarment.

.....
(Signature with date)

.....
(Name and designation)

Duly authorized to sign tender for and on behalf of
.....
.....





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SECTION XI: PRICE SCHEDULE

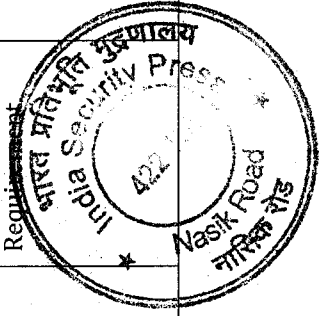
Indigenous Offers: All prices to be in Indian Rupees

To,
 Chief General Manager
 India Security Press,
 (A unit of Security Printing & Minting Corporation of India Ltd.)
 Nashik Road – 422101 (Maharashtra), India.

OFFER FORM for Tender No.6000018518/37/SY-15-13(E-MRTD)/2022 Date: 09.10.2023 of Opening 28.11.2023 Time 15.00 Hours

We.....hereby certify that we are established firm of manufacturers/authorized agents of M/s.with factories atwhich are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of(Name of Purchaser). We hereby offer to supply the following items at the prices indicated below:-

Schedule No.	Description	Specification	Unit Basic price	Qty	Total Price per unit (In Indian Rupees) See table below for Break-up of Price	Total Value of offer (In Indian Rupees)	Terms of Payments	Delivery Period	Gross weight and dimensions of package per unit
1	Supply of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD.	As per Section VII	4	5	6=J*	7 = 6 x 5	8 As per Section V: SCC 7 of Tender document	9 As per Section VI List Requirement	10
1- a	Installation, Testing, Commissioning & Training charges for State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD.			01 Number			As per Section V: SCC 7 of Tender document	As per Section VI List Requirement	
1- b									





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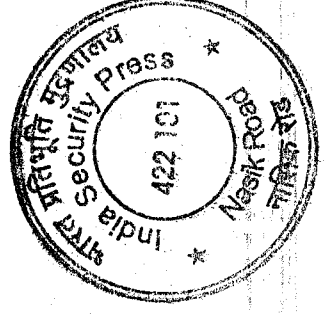
Break-up of Price in Column - 6 (In Indian Rupees)

Item Description	Basic unit price	Name of Manufacturer/OEM of Origin	Country of Origin	HSN/SAC Code	GST % (including GST Cess, if any) with Break-up of CGST/STGST/UTGST/IGST	Per unit GST Total	Packing & Forwarding in details	F.O.R. Station of Despatch Price	Freight (& Insurance charges) upto destination	FOR Destination Price
	A	B	C	D	E	F = (A x E)/100	G	H=A+F+G	I	J*=H+I
1-a: Supply of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD.										
1-b Installation, Testing, Commissioning & Training charges for State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD, Qty.: 1 No.										
Grand Total 1-a, 1-b										

1. Scope of Supply: (Cost break-up of the quoted cost, showing inter-alia costs of all the concomitant Installation/Commissioning/ Training/Technical Support/Incidental Services/Software/accessories, considered necessary to make the proposal self-contained and complete must be indicated here.):

2. Taxation Details:-

- PAN Number
- Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.)
- GSTIN Number
- Registered Address as per GST Registration and Place of Delivery for GST Purpose.





Tender Number: 6000018518

2) Contract Names, Nos. & email IDs for GST matters (Please mention primary and secondary contracts)

3. It is hereby certified that we have understood the General and Special Instructions to Tenderers (GIT and SIT), and also the General and Special Conditions of Contract (GCC and SCC) attached to the tender and have thoroughly examined specifications/Quality Control Requirement and other stipulations in Section VII & VIII- Technical Specifications and Quality Control Requirements and are thoroughly aware of the nature of stores required and out offer is to supply stores strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the General and Special Conditions of Contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

4. We hereby offer to supply the stores detailed above or such portion thereof, as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period ofdays from the date of opening of tender (i.e. upto.....). We shall be bound by the communication of acceptance dispatched within the prescribe time.

5. Earnests Money/Bid Guarantee for an amount equal tois enclosed in form of(form and reference number, date) as per the Tender documents.

Dated.....

Signature and Seal of Manufacturer/Bidder

Note:-

- (i) The Bidder may prepare their own offer forms as per this proforma.
- (ii) in the proforma is permissible.
- (iii) No erasures or alternations in the text of the offer are permitted. Any correction made in the offer shall be initialled by the bidder.
- (iv) Figures in Columns 5 to 7 (both inclusive) and in Break-up of price in column 6, should be in both figures and words.
- (v) This Section should not bring in any new Technical Parameter that has not been mentioned in the Technical Bid.





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SECTION XI: PRICE SCHEDULE

Foreign Offers

(PRICE TO BE QUOTED IN INR / USD / EURO / JPY only)

To,

Chief General Manager, India Security Press,

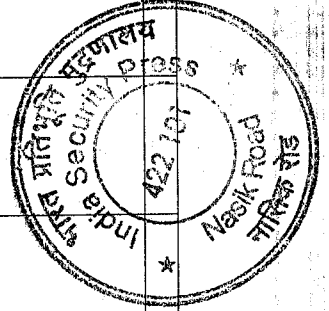
(A unit of Security Printing & Minting Corporation of India Ltd.)

Nashik Road - 422101 (Maharashtra), India.

OFFER FORM for Tender No.6000018518/37/SY-15-13(E-MRTD)/2022 Date 09.10.2023 of Opening 28.11.2023 Time 15.00 Hours

We hereby certify that we are established firm of manufacturers / authorized agents of M/s with factories at which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of **India Security Press, Nashik / SPMCIL**. We hereby offer to supply the following items at the prices indicated below:

Item Sr.	Description	Specifications		Country of origin	Unit of Qty	Qty offered		
		1	2					
A	Supply of State-of-the-art fully automatic & integrated e-Passport (e-MRTD) Booklet Manufacturing System, capable to manufacture e-Passport (e-MRTD) Booklets as per ICAO Standard Doc.9303 of e-MRTD.			3	4 Nos.	5 1 (one) No.		
	Price per unit exclusive of Agency Commission (in the quoted currency/ currencies) GST per unit in INR if extra on the Agency Commission in-India	Agency Commission per unit (inclusive of agency commission in the quoted currency/ currencies)	Total CFR Value of offer per unit	Charges towards Installation, testing, commissioning, training etc.	Total	Terms of payment	Delivery Period	Gross Weight and dimensions of package per unit*
	6	7A	8 [6(c)+7(A)]	9	10 (8+9)	11	12	13
	Name of 'FOB port of country of Supply' and 'per Unit FOB cost' 6(b)	CFR price per unit for Indian Port 'JNPT/ Nhava-Sheva' 6(c)						
Quoted currency (INR or Euro or USD or JPY) 6(a)								





Tender Number: 6000018518

*N.B. The information how many number of units be able to come in one 20" & 40" container should be invariably mentioned/given here for freight comparison.

1. Scope of Supply: (Cost break-up of the quoted cost, showing inter-alia costs of all the concomitant Installation/ Commissioning/ Training/ Technical Support/ incidental services/ software/ accessories, considered necessary to make the proposal self-contained and complete **must be indicated here.**):

- (a) Total **FOB Cost** of the Machine:
- (d) **CFR Cost** of the Machine:
- (c) Cost of Installation, Commissioning, Testing and Training:
- (d) Any other charges (apart from above):

2. We are agreeable to payment of agency commission to our Agents in India in non-convertible Indian Rupees:

- (a) The name and address of Agent
- (b) Service to be rendered by the Agent
- (c) Amount of remuneration for the Agent
- (d) PAN Number of the Agent:.....
- (e) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.); GSTIN number; Registered Address in GSTIN; Place of Delivery for GST Purpose; and GST (including GST Cess) if any to be paid extra on Agent's remuneration.....

3. It is hereby certified that we have understood the General and Special Instructions to Tenderers (GIT and SIT), and also the General and Special Conditions of Contract (GCC and SCC) attached to the tender and have thoroughly examined specifications/ Quality Control Requirements and other stipulations in Section VII & VIII - Technical Specifications and Quality Control Requirements; and are thoroughly aware of the nature of stores required and our offer is to supply stores strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the General and Special Conditions of Contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

4. We hereby offer to supply the stores detailed above or such portion thereof, as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of ----- days from the date of opening of tender (i.e., upto -----). We shall be bound by the communication of acceptance dispatched within the prescribe time.

5. Earnests Money/Bid Guarantee for an amount equal to is enclosed in form of -----(form and reference number, date) as per the Tender Documents.

Dated.....

Signature and seal of *Manufacturer/Bidder*

Note:

(i) The Bidder may prepare their own offer forms as per this proforma.





Tender Number: 6000018518

- (ii) No change in the proforma is permissible.
- (iii) No erasures or alternations in the text of the offer are permitted. Any correction made in the offer shall be initialled by the bidder.
- (iv) This Section should not bring in any new Technical Parameter that has not been mentioned in the Technical Bid.
- (v) The 'FOB Cost & CFR Cost' includes the following:

	Load to truck	Export-duty payment	Transport to exporter's port	Unload to truck at destination's port	Landing charges at destination's port	Transport to importer's port	Landing charges at importer's port	Unload onto trucks from the importers port	Transport to destination	Insurance	Entry Customs Clearance	Entry Taxation
FOB	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
CFR	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No

For a given terms, "Yes" indicates that the seller has the responsibility to provide the service included in the price. "No" indicates it is buyer's responsibility. If insurance is not included in the terms (for example, CFR) then insurance for transport is the responsibility of the buyer.



Section XII: Vendor Details

The tenderer should furnish specific details mentioned below. In case a question/ issue does not apply to a tenderer, the same should be answered with the remark "not applicable".

Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.

In case a tenderer furnishes a wrong or misleading answer against any of the under mentioned question/ issues, its tender will be liable to be ignored.

1. Vendor/ Contractor particulars:

- (a) Name of the Company:.....
(b) Corporate Identity No. (CIN):
(c) Registration if any with SPMCIL:
(d) Complete Postal Address:
(e) Pin code/ ZIP code:
(f) Telephone nos. (with country/area codes):
(g) Fax No.: (with country/area codes):
(h) Cell phone Nos.: (with country/area codes):
(i) Contact persons /Designation:
(j) Email IDs:

2. Taxation Details:

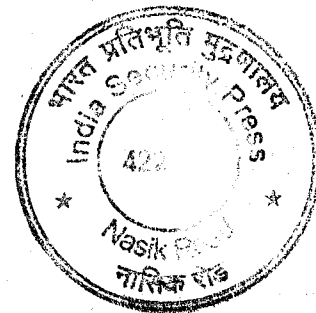
- (a) PAN number:
(b) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.):
(c) GSTIN number:
(d) Registered Address as per GST registration and Place of Delivery for GST Purpose:
(e) Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts):
.....

We solemnly declare that our GST rating on the GST portal / Govt. official website is NOT negative / blacklisted during the last three financial years.

.....
(Signature with date)

.....
(Full name, designation & address of the person duly authorized sign on behalf of the tenderer)
For and on behalf of

.....
(Name, address, and stamp of the tendering firm).





Tender Number: 6000018518

Section XIII: Bank Guarantee Form for EMD
BANK GUARANTEE FOR BID GUARANTEE
(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)

Ref

Date

Bank Guarantee No

To,
(Insert Name & Address of the Purchaser)

Dear Sir,

Whereas (Hereinafter called the "Tenderer") has submitted its bid numbered dated for the supply of (Hereinafter called the "ender") againsts **(insert name of Purchaser)** (hereinafter called as the 'Purchaser') tender enquiry No. opened on..... Know all persons by these presents that we of (hereinafter called the "Bank") having our registered office at are bound unto the Purchaser, in the sum of for which payment will and truly be made forthwith, on demand by the Purchaser, without demure to the said Purchaser, the Bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said Bank this..... day of 20.....

The conditions of this obligation are —

- (1) If the Tenderer withdraws or amends, impairs, or derogates from the tender, in any respect within the period of validity of this tender.
- (2) If the Tenderer or anyone employed by it or acting on its behalf (whether with or without the knowledge of the Tenderer) breaches any of the provisions of the pre-bid/ Pre-contract Integrity Clause.
- (3) If the Tenderer having been notified of the acceptance of his tender by Purchaser during the period of its validity:-
 - a) Fails or refuses to furnish the performance security for the due performance of the contract.
 - b) Fails or refuses to accept/ execute the contract.

We undertake to pay Purchaser up to the above amount, upon receipt of its first written demand, without Purchaser having to substantiate its demand, provided that in its demand Purchaser will note that the amount claimed by it, is due to it owing to the occurrence of one or more or all the above conditions, specifying the occurred condition(s). We agree that the decision of the Purchaser, whether above conditions have occurred, shall be final and binding on us.

This guarantee will remain in force for a period of **(insert the period of validity plus 45 days, in words and figures)** days after the date of **(insert date of tender opening)** and any demand in respect thereof should reach the Bank not later than the above date.

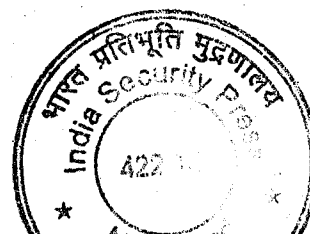
Date

Place

Signature
(Printed Name)
(Designation)

Witnesses

(Bank's Common Seal)



Section XIV: Manufacturer's Authorization Form

To

.....
.....

(Name and address of SPMCIL)

Dear Sirs,

Ref. Your Tender document No....., dated

We,, who are proven and reputable manufacturers of
(name and description of the goods offered in the tender) having factories at....., hereby
authorise Messrs..... (name and address of the agent) to submit a tender, process the
same further and enter into a contract with you against your requirement as contained in the above referred tender
enquiry documents for the above goods manufactured by us.

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

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

Yours faithfully,

.....
.....

[Signature with date, name, and designation]

for and on behalf of Messrs.....

[Name & address of the manufacturers]

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





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Section XV: Bank Guarantee Form for Performance Security
PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE GUARANTEE BOND
(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)

Ref Date

Bank Guarantee No

To,

(Insert Name & Address of the Purchaser)

Dear Sir,

1. Against contract vide Notification for Award of the Tender No dated covering supply of (hereinafter called the 'contract') entered into between the **(insert name of Purchaser)** (herein after called as the Purchaser) and M/s. (here in after called the 'Contractor'), this is to certify that, at the request of the Contractor, we **(name of the bank)**, are holding in trust in favour of the Purchaser, the amount of **(write the sum here in words)**, to indemnify and keep indemnified the Purchaser, against any loss or damage that may be caused to, or suffered by the Purchaser, by reason of any breach by the Contractor of any of the terms and conditions of the said contract and/or in the performance thereof. We agree that the decision of the Purchaser, whether any breach of any of the terms and conditions of the said contract and/or in the performance thereof has been committed by the Contractor; and the amount of loss or damage that has been caused or suffered by the Purchaser, shall be final and binding on us, and the amount of the said loss or damage shall be paid by us, forthwith on demand and without demur to the Purchaser.

2. We **(name of the bank)**, further agree that, the guarantee herein contained, shall remain in full force and effect, for sixty days after the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period whichever is later, i.e. till (hereinafter called the 'said date') and that if any claim accrues or arises against us **(name of the bank)**, by virtue of this guarantee before the said date, the same shall be enforceable against us **(name of the bank)**, notwithstanding the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us **(name of the bank)**, by the Purchaser, before the said date. Payment under this bond of guarantee shall be made promptly, upon our receipt of notice to that effect, from the Purchaser.

3. It is fully understood that this guarantee is effective from the date of the said contract and that we **(name of the bank)**, undertake not to revoke this guarantee during its currency, without the consent in writing of the Purchaser.

4. We undertake to pay to the Purchaser, any money so demanded, notwithstanding any dispute or disputes raised by the Contractor, in any suit or proceeding pending before any Court or Tribunal, relating thereto, our liability under this present, being absolute and unequivocal. The payments so made by us under this bond, shall be a valid discharge of our liability for payment thereunder, and the Contractor shall have no claim against us, for making such payments.

5. We **(name of the bank)**, further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said contract, or to extend time of performance by the Contractor, from time to time, or to postpone for any time or form, time to time, any of the powers exercisable by the Purchaser, against the said Contractor and to for bear or enforce any of the terms and conditions relating to the said contracts and we **(name of the bank)**, shall not be released from our liability under this guarantee, by reason of any such variation or extension being granted to the said Contractor, or for any forbearance and/or omission on the part of the Purchaser, or any indulgence by the Purchaser towards the said Contractor, or by any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision, have the effect of so releasing us from our liability under this guarantee.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

Date

Place

Signature
(Printed Name)
(Designation)

Witnesses
(Bank's Common Seal)



Section XVI: Contract Form

(Address of SPMCIL's office issuing the contract)

Contract No..... dated.....

This is in continuation to this office' Notification of Award No..... dated

1. Name & address of the Supplier:

2. SPMCIL's Tender document No..... dated..... and subsequent Amendment No....., dated..... (If any), issued by SPMCIL

3. Supplier's Tender No..... dated..... and subsequent communication(s) No..... dated (If any), exchanged between the supplier and SPMCIL in connection with this tender.

4. In addition to this Contract Form, the following documents etc., which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as part of this contract:

(i) General Conditions of Contract;

(ii) Special Conditions of Contract;

(iii) List of Requirements;

(iv) Technical Specifications;

(v) Quality Control Requirements;

(vi) Tender Form furnished by the supplier;

(vii) Price Schedule(s) furnished by the supplier in its tender;

(viii) Manufacturers' Authorisation Form (if applicable for this tender);

(ix) SPMCIL's Notification of Award

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

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

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

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

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

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

(ii) Delivery schedule

(iii) Details of Performance Security

(iv) Quality Control

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

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

(v) Destination and despatch instructions

(vi) Consignee, including port consignee, if any

(vii) Warranty clause

(viii) Payment terms

(ix) Paying authority

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

For and on behalf of.....

Received and accepted this contract

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

For and on behalf of

(Name and address of the supplier).....

(Seal of the supplier)

Date:

Place:



**Section XVII: Letter of Authority for attending a
Pre-bid Conference/ Bid Opening**

The General Manager

Unit Address

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

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

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

Note:

1. Maximum of two representatives will be permitted to attend pre-bid conference/ bid opening. In cases where it is restricted to one, first named representative will be allowed to attend. Alternate representative will be permitted when regular representatives are not able to attend.
2. In case of pre-bid conference, self-attested copy of proof of purchase of Bid documents, in the name of the bidder must be enclosed with this authorization, without which entry would be refused. Bid documents would be available for sale at the site also.
3. Permission for entry to the hall where even is held may be refused in case authorization as prescribed above is not produced.



Section XVIII: Proforma of Bills for Payments

(Refer Clause 22.6 of GCC)

Name and Address of the Firm.....

Bill No.....

Dated.....

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

Name and address of the consignee.....

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

1. GST/ CGST/ SGST/ UTGST/ IGST Amount

2. Freight (if applicable)

3. Excise Duty (if applicable)

4. Packing and Forwarding charges (if applicable)

5. Others (Please specify)

6. PVC Amount (with calculation sheet enclosed)

7. (-) deduction/Discount

8. Net amount payable (in words Rs.)

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

Dated.....(enclosed)

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

Place and Date

Received Rs.....

Rupees).....

We solemnly certify that:

a. Goods and Services Tax (GST) charged on this Bill is not more than what is payable under the provision of the relevant Act or the Rules made there under.

b. Goods on which GST has been charged have not been exempted under the GST Act or the rules made there under and the charges on account of GST on these goods are correct under the provisions of that Act or the Rules made there under.

c. We are registered with above indicated GSTIN as dealer in the State where in their Billing address is located for the purpose of GST.

d. This bill form / invoice is not a replacement for the GST invoice. The proper GST invoice as per requirements of GST rules has been sent to the Purchaser as and when deliveries are made to the consignee.

e. that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

Revenue stamp

Signature and of Stamp Supplier



Section XIX: NEFT Mandate

(Refer clause 22.2 of GCC)

From: M/s. Date:

To:

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

Sub: NEFT payments

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

NATIONAL ELECTRONIC FUNDS TRANSFER MANDATE FORM

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

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

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

Date

Signature of the Customer

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

Stamp and Signature of authorized official of the bank



SECTION XX: PRE-BID/ PRE-CONTRACT INTEGRITY PACT

(To be signed on Plain Paper)

This Agreement (hereinafter called the Integrity Pact) is made on ___ day of the month of ___ 202__ at _____, India.

BETWEEN

SPMCIL, a Miniratna Category I, Public Sector Enterprise of the Ministry of Finance, Government of India, (hereinafter called the "The Principal", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part

AND

M/s. _____ (hereinafter called the "The Bidder/ Contractor" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

PREAMBLE

'The Principal' intends to award, under laid down organizational procedures, contract/s for _____, 'The Principal' values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder(s) and / or Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the 'The Principal'

(1) 'The Principal' commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

- a. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- c. The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 - Commitments of the 'Bidder / Contractor'

(1) The 'Bidder/ Contractor' commit themselves to take all measures necessary to prevent corruption. The 'Bidder/ Contractor' commit themselves to observe the following principles during participation in the tender process and during the contract execution.

- a. The 'Bidder/ Contractor' will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- b. The 'Bidder/ Contractor' will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- c. The 'Bidder/ Contractor' will not commit any offence under the relevant IPC/PC Act; further the 'Bidder/ Contractor' will not use improperly, for purposes of competition or personal gain, or pass on to others, any



Tender Number: 6000018518

information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d. The 'Bidder/ Contractor' of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the Bidder/Contractors of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder/Contractor. Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is placed at Annex to this agreement.

e. The 'Bidder/ Contractor' will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

f. The authorized person of the bidder firm who is signing the Integrity Pact shall not approach the Courts while representing the matter to IEMs and he/she will await their decision in the matter.

(2) The 'Bidder/ Contractor' will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the 'Bidder/Contractor', before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the 'Bidder/Contractor' from the tender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings".

Section 4 - Compensation for Damages

(1) If the Principal has disqualified the 'Bidder/ Contractor' from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from 'Bidder/ Contractor' the damages equivalent to Earnest Money Deposit/ Bid Security.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 - Previous transgression

(1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

Section 6 - Equal treatment of all Bidders / Contractors / Subcontractors

(1) In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor.

(2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.

(3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidder(s) / Contractor(s) / Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.



Section 8 - Independent External Monitor

- (1) The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- (2) The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all Contract documents, whenever required. It will be obligatory for him / her to treat the information and documents of the Bidders/Contractors as confidential. He/ she reports to the Chairman and Managing Director of SPMCIL.
- (3) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
- (4) The Monitor is under contractual obligation to treat the information and documents of the Bidder/ Contractor(s) / Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non-Disclosure of Confidential Information' and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Chairman and Managing Director of SPMCIL and recuse himself / herself from that case.
- (5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- (6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- (7) The Monitor will submit a written report to the Chairman and Managing Director of SPMCIL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- (8) If the Monitor has reported to the Chairman and Managing Director of SPMCIL, a substantiated suspicion of an offence under relevant IPC/ PC Act, and the Chairman and Managing Director of SPMCIL has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- (9) The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairman and Managing Director of SPMCIL.

Section 10 - Other provisions

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.





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- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- (5) Issues like Warranty / Guarantee etc. shall be outside the purview of IEMs.
- (6) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

For and On behalf of the Principal	For and On behalf of 'Bidder/ Contractor'
(Name of the Officer and Designation) (Office Seal)	(Name of the Officer and Designation) (Office Seal)

Place -----

Date -----

Witness 1:

(Name & Address)

Witness 2:

(Name & Address)

