



SICH 2023 INDIA

वसुधेव कुटुम्बकम्

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Ref No.: SY-15-13(E-MRTD)/2022

#### CORRIGENDUM-5

Date: 31.01.2024

REFERENCE: ISP-Nasik's Global Tender No. 6000018518/37/SY-15-13(E-MRTD)/2022 dated 09.10.2023 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, Oty 1 No.

In context with the above referred Tender Document, the following amendments are hereby authorized to be read as:

### TABLE-[A]:

Sr. No.	Section No.	Clause	For	Read as
1)	SECTION I:	Dates and place of issue of tender documents:	From 10.10.2023 to 20.02.2024 during office hours At ISP, Nashik	From 10.10.2023 to 23.02.2024 during office hours At ISP, Nashik
2)	NOTICE INVITING	Closing date and time for receipt of tenders	20.02.2024 up to 14:30 Hrs IST	23.02.2024 up to 14:30 Hrs IST
3)	TENDER	Time and date of opening of tenders for 1 <sup>st</sup> envelop (PQB Bid)	15:00 Hours IST on <u>20.02.2024</u>	15:00 Hours IST on 23.02.2024
4)	SECTION XI: PRICE SCHEDULE		Offer Form for Tender No.6000018518/37/SY-15-13(E- MRTD)/2022 Date: 09.10.2023 of Opening 20.02.2024 Time 15.00 Hours	Offer Form for Tender No.6000018518/37/SY-15-13(E- MRTD)/2022 Date: 09.10.2023 of Opening 23.02.2024 Time 15.00 Hours

## TABLE-[B]:

Sr. No.	Tender Clause	For (existing clause/condition)	Read as (revised/proposed change)
1.34	Section VI -	List of Requirements	The state of the s
1.	Sec VI 1. A. (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.	(i) If the contract is awarded on FOB basis, the firm will have to supply all Equipment/ deliverables within 12 Months from the date of issue of LC.  (ii) If the contract is awarded on CFR basis, the firm will have to supply all Equipment/ deliverables within 13 Months from the date of issue of LC.
2.	Sec VI 1. A. (ii)	(ii) The firm has to complete the entire work relating to the installation, testing, commissioning, training, including FAT within a period of <b>3 months</b> from the date of receipt of machine at ISP.	(ii) The firm has to complete the entire work relating to the installation, testing, commissioning, training, including FAT within a period of <b>4 months</b> from the date of receipt of machine at ISP.
	Section VII:	l'echnical Specifications	
3.	5.6.15	Suitable thread /seam pressing unit shall be provided at appropriate place	This clause/condition will be deleted.
4	6.3	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.	This clause/condition will be deleted.

Sr. No.	Tender Clause	For (existing clause/condition)	Read as (revised/proposed change)
5.	6.4	-	Following clause is added in the existing clause: 6.4.8 A state of the art system shall be required to check the UV printing on the cover material and its orientation; in case the material is not fed as per orientation system should raise an alarm and stop the machine.
6.	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	This clause/condition will be deleted.
7.	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.	This clause/condition will be deleted.
8.	8.5.1	A unique Vision Camera System shall be provided to check the quality of printed Gothic Number of the1-up booklet including transfer into the database for subsequent Laser Perforating Number	A Latest state-of-the-art technology 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.
9.	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	A High-resolution latest state-of-the-art technology Vision Camera Monitoring System shall be installed for monitoring the laser Number by through whole quality check by suitable method to check the quality of the Laser Numbering.
10.	9.4	The Application Software shall be user friendly and openended	The Application Software shall be user friendly and shall provide APIs (Application Program Interface) to integrate with other system such as SAP ERP / SAP S4 HANA and Track & Trace.
11.	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.	The complete system shall be covered with Track & Trace System with Central Database (CDB) for 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 lifetime and shall have required storage facility with suitable RAJD 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.
			Track & Trace System with Central Database (CDB) of the machine shall provide APIs (Application Program Interface) to integrate with other system such as Track and Trace and SAP ERP / SAP S4 HANA etc.
12.	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	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 / SAP S4 HANA 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:
			For 'SAP / SAP S4 HANA' integration, Machine shall provide APIs to fetch following data from machine (all sub stations):  > Machine's Instantaneous Speed  > Machine shift avg. speed  > Machine's shift wise Production Count of Good and Bad  > Machine's Downtime  > Product type
3.	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.	Complete back up in <b>soft copy</b> of PLC/DCS, Drives, Consoles, HMI's and other Control Gadgets provided in the machine.

. [	Sr.	Tender	Pour	
	No.	Clause	For (existing clause/condition)	Read as (revised/proposed change)
	14.	18.0	(Additional Clause)	As per requirement of STQC (Standardization, Testing and Quality Certification under Ministry of electronics and information technology, Govt. Of India), source-code of track and trace system (sub-system) is required for audit purpose. Hence, successful bidder shall have to provide source code of track and trace system (sub-system). Ownership of the source code will be with the supplier firm only. Both the firms, participated in pre-bid conference, informed that they will revert on this clause/condition after discussions with their management.
	15.	16.0	TRAINING: 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.	TRAINING: Ten (10) numbers of officials may be deputed at supplier's site for conducting Operational & Maintenance training for 10 working days (excluding the journey period). The Purchaser will bear the cost of to &fro journey and accommodation.
	16.	Sec VIII A.	Quality Control Requirements  Important input raw material/consumables required for FAT shall be arranged by the successful bidder in	Important input raw material required for FAT shall be arranged by the purchaser.
			concurrence to purchaser	The following consumables required for trials / FAT at ISP will be arranged by supplier: - Hot Melt glue - Reinforced Tape - Gold Foil - Gothic Carbon Ribbon - Barcode Ribbon - Labels for barcode
H	-	<u> </u>		
	17.	SEC IX 1.	Qualification/ Eligibility Criteria (c) Financial standing:	(d) Financial standing:
		(c) Financial Standing:	<ul> <li>(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 &amp; 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.</li> <li>Note: 'Start-ups, Micro and Small Enterprises' are exempted from 'Average Annual Turnover Criteria'.</li> <li>(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)".</li> <li>(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)".</li> <li>(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)".</li> </ul>	<ul> <li>(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 &amp; 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.</li> <li>Note: 'Start-ups, Micro and Small Enterprises' are exempted from 'Average Annual Turnover Criteria'.</li> <li>(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)".</li> <li>(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)".</li> <li>(b) Should not have eroded by more than 30% in the last three years, ending on "31st March 2023 (Bidders who follow calendar year as financial year the Date will be 31st December 2022)".</li> <li>Note:</li> <li>"The average annual financial turnover of the Bidder firm (manufacturer or principal of authorised)</li> </ul>
				dealer)during the last three years, ending on other than 31.03.2023 or the last date of any other latest year being followed in the country of the respective bidder).  • If the gap between 'the bid opening date' and 'the last date of the year being followed in the country of respective bidder' is less than 6 months, then the relevant date will be the last day of the immediate last year being followed in the country of respective bidder.

TABLE-[C]:
The 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." Given under clause iii) of SCC-2: Inspection and Quality Control of the tender document is amended as under:

Sr.	nent is amended as under:		l
No.	Parameters	Compliance	Remark
I.	PASTING OF RFID/UID CHIP INLAY ONTO END SHEET :( MODULE-I)	L	·
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		
0	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	1 1/4	
B)	FEEDER FOR END SHEETS		
1	An automatic continuous feeder having provision to refill the stack from the top during machine operation.		is in the second se
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.		
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		100
5	Cartridge capacity up to 20 kg	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
6	Clock/timer for preheating the hot melt		3
D)	PRESSING OF STACKS		
1	Suitable pressing station/(s)		Nag Trans
E)	RFID/UIDCHIP READERS AT DELIVERY:		
1	RFID/UID Chip Reader(s)		The Article
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	A 1475	<u> 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>
2	Display of all operational data and operator configuration. Provision to configure all the required		
3	configurations.  The console shall show all condition of the machine		
3 11	COLLATING AND SEWING OF 2-UP SHEETS:		
<u>A)</u>	FEEDER UNITS FOR COLLATION In total twelve feeders suitable to feed single or folded sections, HAUV film/Polycarbonate sheets of 2 up		
1	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	<u> </u>	
<u>,</u> 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		
1	HAUV laminating films feeders shall be equipped with suitable Electrostatic Discharge Device.		120
2	Self-teaching thickness control system	1 (75) (8) 1 (15) (8)	
3)	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	100	<u> </u>
<u>-</u> ]	TAPE RE-ENFORCEMENT UNIT		<u> 1980 (1984)</u> V
1	The Tape Re-enforcement Unit working		<u> </u>
2	The width of the tape shall 266±10 mm adjustable.		
3	Heat Pressing unit		
4	Monitoring and control system		
))	REJECT GATE		<u> </u>
1	The suitable Reject gate with Reject Tray/Box		

Sr. No.	Parameters	Compliance	Remark
E)	TRIMMING STATION		
<u>F)</u>	REVERSE & INTERLOCK STITCHING		
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		
2	Stitching to the 2-up e-Passport Booklet 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		<u> </u>
7	Industrial grade Control Console with suitable size LED Monitor		
8	Proper illumination facility at the needle of all the four Sewing Heads		
9	Provision to run any one line (Right or Left)		
G)	RFID/UID CHIP READERS		L.,
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		t.
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 CONTAINIG RFID/UID CHIP I	NLAY	
<u>A)</u>	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		
<u>B)</u>	RFID/UID CHIP READER		
1	RFID/UID Chip Reader(s)	4.71	
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the	203/6	
1.12	System shall record the data accordingly	<u> </u>	v1
3	Industrial grade Control Console with suitable LED Monitor	<u> </u>	<u> </u>
<u>C)</u>	FEEDER FOR COVER MATERIAL (BUCKRAM)		<u> </u>
1	Fully automatic & non-stop Flat Feeder		<u> 14.2</u>
2	Monitoring & control system		
3.	A state of the art system shall be required to check the UV printing on the cover material and its orientation;		
	in case the material is not fed as per orientation system should raise an alarm and stop the machine.		
D)_	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.		12.0
4	The glue application device shall have adjustable mechanism		
5	Cartridge capacity up to 20 kg	. 17.5%	egit ja egit
6	Timer for preheating the hot melt		a. Walio and a sale
7	Pressing mechanism		
<u>E)</u>	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		
F)	REJECT GATE	15 4 45 12 <sup>5</sup> 15 15	
1	The suitable Reject gate with Reject Tray/Box		
<u>G)</u>	DELIVERY  Suitable conveyors but delivery		<u>1 194 - 211.</u> <del>2 - 2 - 1</del>
2	Suitable conveyer belt delivery		
IV	Integrated counting device.	TERRE POT STATE	004 ***
IV	HOT GOLDEN COLOUR FOIL STAMPING, HEAT CREASING OF 2-UP BOOKLET,1-UP SPLITER FROM 2-UP,CET /2-UP BOOKLET,HEAT PRESSING OF 1-UP BOOKLET AND PROFILE DIE CUTTING OF FINISHED e-PASSPO	NIKE FOLDING	OF 1-UP
	72-0P BOOKLET, HEAT PRESSING OF 1-0P BOOKLET AND PROFILE DIE COTTING OF FINISHED e-PASSPO   STANDARDS	JKI BUUKLET	OF ICAU
A)	FEEDER		<u>alan (j. 16.)</u> Nggarat Pin
1 2	Fully automatic & non-stop suitable feeder Suitable booklet orientation monitoring & control system		
B)	RFID/UID CHIP READER		<u>s en a Artis.</u> Egyptischer Sein
1	RFID/UID Chip Reader(s)		No. 10 to 10
2	Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the	100 41 41 4 44 4 4 1 7	
24	System shall record the data accordingly		
C)	HOT GOLDEN COLOUR FOIL STAMPINGSTATION		<u>an an an an an</u> Tabba at an
1	The hot stamping head with height adjustment		Age of the second
2	Automatic golden colour foil-reel fed system		<u>tera ya Barafar.</u> Walio Barafa
3	Electronic Temperature Controller		
4	Auto/Manual operation of Stamping station		Marketti, ili bili. Najarah
5 6	Control Touch Panel / HMI Suitable sensor/provision to sense presence of booklet		93.00 (1965) 1960 (1965)
	CAMERA SYSTEM FOR GOLDEN COLOUR FOIL EMBOSSING		
<u>D)</u>			
1	Inspection Camera System with High resolution Camera(s) TEACH-IN-MODE provision	- 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en geriode. Maria de la companya
2	Separate Industrial grade LED monitor with controller		8
3			Haraka, Ma Bajarana
E) 1	REJECT GATE Suitable nos. of Reject Gates with Reject Box/tray		
	ourrane nos of Neject Dates with Neject DOA/ Hay		

Sr. No.	Parameters	Compliance	Remark
F)	2 UP TO 1-UP BOOKLET CUTTUNG STATION		
1	A suitable type cutting mechanism		
<u>G)</u> 1	HEAT CREASING STATION  The suitable high-quality heating element		1
2	HMI/Control Console		
H)	CENTRE FOLDING FOR BOOKLET		!
<u>1</u> 2	Latest &trouble-free Centre Folding Station Synchronization with the machine speed	-	
3	Suitable drive mechanism		
I)	HEATED SPINE PRESSING & SPINE ROLLING STATION		
2	Pressing mechanism HMI/Control Console		
<u> </u>	PROFILE DIE CUTTING STATION / (S) FOR FINISHED e-PASSPORT BOOKLETOF ICAO STANDARD		<u> </u>
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 $\times$ 88 mm) $\pm$ 0.3 mm. (ICAO Standard)		
<u>4</u> 5	The final size and shape of the Passport booklet shall be achieved by one single profile die cut		
6	Extraction unit with suitable trolley and holding mechanism  Proper illuminated lamp		
7	Auto/manual/inch mode selection for die setting/replacement		
K)_	WASTE CONVEYOR SYSTEM		
1 L)	Automatic waste conveyor system 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		
3	System shall record the data accordingly Industrial grade Control Console with suitable size LED Monitor		
M)	REJECT GATE		
1	The suitable nos. of Reject Gates with Reject boxes/trays		
N)	DELIVERY & STACKING SYSTEM		
2	Suitable delivery System  Conveyor System of the delivery shall be capable to stack at least 200 booklets		e L
V	GOTHIC NUMBERING, LASER PERFOPRATED NUMBERING, BAR CODE PRINTING CUM LABEL APPLICATOR		
A)	BOOKLET FEEDER		
2	Suitable feeding system  Conveyor System of the feeder shall be capable to stack at least 200 booklets		3/14 _2.5 
3	Booklet position control system		
B)	RFID/UID CHIP READER		11 (1)
2	One RFID/UID Chip Reader before or after Gothic numbering taken place  Conditions of rejection shall be checked & rejection provision through the subsequent Reject Gate and the		
3	System shall record the data accordingly Industrial grade Control Console with suitable size LED Monitor		
<u>c)</u>	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 <sup>nd</sup> Opening Station		
4	Thickness controller		
5 <b>D)</b>	Page scanner to monitor the correct page opening.  CRN IMPACT NUMBER PRINTING OF GOTHIC NUMBERS ON THE OPENED DATA PAGE FOR SERIAL / RAND	OM 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 E)	Provision to "Bypass", Gothic numbering station during remake process  CAMERA MONITORING SYSTEM FOR PRINTED GOTHIC NUMBER		
E) 1	A Latest state-of-the-Art Vision Camera System having High resolution Camera along with suitable		
2	illuminating lamp  A separate LED monitor shall be provided at Gothic Numbering Station to monitor the printed gothic number		
	in integration with main Control Console		
3 4	TEACH-IN-MODE  Gothic Numbering shall have interface with Laser Perforation Numbering, Bar Code printing, RFID/UID Chip		
7	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  Thickness Controller or Manitoring Comera		<u>yali, alikeli, elik</u> Angan
3 4	Thickness Controller or Monitoring Camera  Compatible with polycarbonate sheet also		<u>ara mi</u> Sasta Nasi
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).		

Sr. No.	Parameters	Compliance	Remark
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 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 Latest state-of-the-Art Vision Camera Monitoring System		
2	Through whole inspection which shall either check through all perforated pages of the booklets or at least		
3	last perforated page of the booklet		·
4	A separate LED monitor with Controller shall be provided at Laser Numbering Station Reject Gate		
1)	ONLINE BARCODE PRINTING CUM LABLE APPLICATOR AND SCANNER		<u> </u>
1 1	Online Barcode Printing COM LABLE APPLICATOR AND SCANNER  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.		1.1
3	Test print facility of the printer		
4	Online barcode scanner		<u> </u>
<u> </u>	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	a de la composición	
1	Touch Screen Industrial Grade Control Consoles /HMIs	- Mag(1.5)	
2	Consoles/HMIs shall display current M/c status		
3	Uploading and down-loading of PLC programme		
	[ <b>0</b> 6] 보고 있는 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들이 되었다.		
	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 Remote Access facility		
VII	TRACK & TRACE SYSTEM WITH CENTRAL DATABASE (CDB)		
1	Facility of printer, key board/mouse/Monitor		
2	SAP ERP / SAP S4 HANA 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.	2 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
8	Track & Trace System with Central Database (CDB) of the machine shall provide APIs (Application Program	j. Pig Talik	
19,51	Interface) to integrate with other system such as Track and Trace and SAP ERP / SAP S4 HANA etc.		
9	For 'SAP / SAP S4 HANA' integration, Machine shall provide APIs to fetch following data from machine (all		47
	sub stations):		
	Machine's Instantaneous Speed		
	Machine shift avg. speed		
	<ul> <li>Machine's shift wise Production Count of Good and Bad</li> <li>Machine's Downtime</li> </ul>		
	<ul><li>Machine's Downtime</li><li>Product type</li></ul>		
VIII	GENERAL REQUIREMENTS		
1	All the feeder, reject gates and delivery units shall have integrated Electronic Counters.	1	
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		
3	Thickness of the folded booklet: 2 to 7 mm (4 pages to 64 pages)		
4	Corner Rounding Radius : 3.18 mm ± 0.02 mm		
5	Minimum final output : 50 booklets per minute		100

Note: a. All other terms and conditions of the tender document shall remain unchanged.

 $\textbf{b. For further details, please visit our website} \, \underline{\textbf{www.spmcil.com}} \, \textbf{or} \, \underline{\textbf{https://ispnasik.spmcil.com}} \, \textbf{regularly.}$ 

Jt. General Manager (Materials)
For Chief General Manager