

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)

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Date of Issue: 22.07.2026

1.	Name of the organization	India Security Press, Nashik (a unit of Security Printing and Minting Corporation of India Limited)
2.	Type of the organization	Wholly owned by Government of India
3.	EOI Reference No	EOI No. 14/2026-27 dated 22.07.2026
4.	EOI Title	Expression of Interest for Electrical & Electronics Spares for A)Super Simultan EVO Machine B)Rapida Machines C) Kisscut Machine at ISP, Nashik 422101.
5.	Category	Spares
6.	Date of Announcement	22.07.2026
7.	Last date for submission:	14:30 Hrs (IST) on 21.08.2026
8.	Date of EOI Opening	15:00 Hrs (IST) on 21.08.2026

9. The Chief General Manager, India Security Press, Nashik invites Expression of Interest from firms for “Electrical & Electronics Spares for A) Super Simultan EVO Machine B)Rapida Machines C) Kisscut Machine at ISP, Nashik 422101.”

10. The Brief requirement of ISP for “Electrical & Electronics Spares for A) Super Simultan EVO Machine B)Rapida Machines C) Kisscut Machine at ISP, Nashik 422 101 is enclosed as **Annexure-A, Annexure B & Annexure C**.

11. Pre-Qualification Criteria:

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

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

(c) "The bidder shall be a Proven Past Supplier of “Electrical & Electronics Spares as per Annexure A,B,C to ISP, Nashik 422101”,with the same or higher specifications of at least one number in last three years ending on “31.03.2025”.

(d) The interested bidders shall also submit copies of Audited financial statement for the last Five (05) years i.e. 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025.

12. The bidder should also confirm specifically that:

(a) Applicant is competent and legally authorized to submit and/ or to enter into legally binding contract.

Contd....2/-

- (b) The firm should confirm their annual installed capacity for manufacture, supply and install similar type of Electrical & Electronics Spares for A) Super Simultan EVO Machine B) Rapida Machines C) Kisscut Machine”.
- (c) Applicant will absolve the purchaser against any infringement of patent rights and other contract provisions.
13. The duly filled details along with supporting documents and budgetary offer(s) with respect to Electrical & Electronics Spares for A) Super Simultan EVO Machine B) Rapida Machines C) Kisscut Machine.
14. Budgetary offers shall clearly mention price of each offered machinery/spares parts. Prices of additional features (if any), shall be indicated separately.
15. The above may be submitted (in a sealed/closed envelop mentioning the name, no. & date of this EOI) in person or through courier/ registered post/ speed post so as to reach the following address on or before the prescribed date and time as under:

The Chief General Manager,
India Security Press,
Nashik Road -422 101.
Phone No 0253 240 2319 / 2419
Email: purchase.isp@spmcl.com;

Place of opening of Expression of Interest: India Security Press,
Nashik Road, Pin-422 101.
Maharashtra, India.

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

Jt. GM (TO)/Purchase
For Chief General Manager
India Security Press, Nashik Road

ANNEXURE 'A'

Technical Specification of SUSI machine spares: -

S. No.	Specification	Qty:
1.	Safety On board Drive: =E (=N-927N1) Make: Rexroth, EFC 5610 Type: EFC5610-4K00-3P4-MDA-7P-NNNNN-L1NN Power=4 KW, I/P: 3phase AC 380-480V, 11.9A, 50Hz O/P: 3phase AC 0-480V, 9.7A, 0-400Hz Make: Rexroth, Indra Drive M or exact equivalent in respect of electrotechnical feature for direct replacement without any modification Drive must complete with machine programming, parameter setting and software interfacing as per machine requirement.	01 no
2.	Safety On board Drive =SD=2F-465N1 Type: EFC5610-2K20-3P4-MDA-7P-NNNNN-L1NN Motor Power: 2.2 KW I/P: 3phase AC 380-480V, 6.8A, 50Hz O/P: 3phase 0-480V, 5.6A, 50Hz Make: Rexroth, Indra Drive M or exact equivalent in respect of electrotechnical feature for direct replacement without any modification Drive must complete with machine programming, parameter setting and software interfacing as per machine requirement.	01 no
3.	Safety On board Drive =SD=3F-463N1 & =4N-491N1 Part No: L0867985 Type: HCS01.1E-W0008-A-03-B-ET-EC-NN-L4-NN-FW I/P: 3phase AC, 200-500V, 2.5A, 50Hz O/P: 3phase AC 0-500V, 2.7A, 0-1600Hz Control Power Supply: DC 24V, 3.4A max. Make: Rexroth, Indra Drive M or exact equivalent in respect of electrotechnical feature for direct replacement without any modification Drive must complete with machine programming, parameter setting and software interfacing as per machine requirement.	02 Nos.
4.	Drive =PILS2-QA1 Type: HCS01.1E-W0018-A-03-B-ET-EC-EP-S4-NN-FW I/P: 3phase AC, 200-500V, 5A, 50Hz O/P: 3phase AC 0-500V, 7.6A, 0-1600Hz Control Power Supply: DC 24V, 3.4A max. Make: Rexroth, Indra Drive M or exact equivalent in respect of electrotechnical feature for direct replacement without any modification Drive must complete with machine programming, parameter setting and software interfacing as per machine requirement.	01 No
5.	Drive =SETR-QA4 & Type: EFC5610-OK75-3P4-MDA-7P-NNNNN-L1NN Motor Power: 0.75 KW I/P: 3phase AC 380-480V, 2.6A, 50Hz O/P: 0-480V, 2.3A, 50Hz Make: Rexroth, Indra Drive M or exact equivalent in respect of electrotechnical feature for direct replacement without any modification Drive must complete with machine programming, parameter setting and software interfacing as per machine requirement.	01 no
6.	Drive Make: Rexroth, EFC 5610 Type: EFC5610-2K20-3P4-MDA-7P-NNNNN-L1NN Motor Power: 2.2 KW I/P: 3phase AC 380-480V, 6.8A, 50Hz O/P: 3phase 0-480V, 5.6A, 50Hz	01 no

	Make: Rexroth, Indra Drive M or exact equivalent in respect of electrotechnical feature for direct replacement without any modification Drive must complete with machine programming, parameter setting and software interfacing as per machine requirement.	
7.	ITC of Drives (Line item No:01 to 06) and configured as per our machine requirement. The firm have to installed and load the program & parameter as per machine requirement's do not have source code and GCD file for the above drive.	01 AU
8.	Main Switch: (=E) 21Q1complete assembly with rotary mechanism Top details: M0320, Type: 3VA9267-0HA10 Base Details: Type: 3VA2225-6HL32-0AA0, 250A Make: Siemens or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	01 No.
9.	UPS 1100 with battery bank Type-6EP4135-0GB00-0AY0 O/P: DC 24V/12AH/40A max. MAKE: SITOP or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	01 no
10.	UPS 1600 with battery bank Type-6EP4137-3AB00-2AY0 I/P: DC 24V/ 43.4A O/P: DC 24V/40A MAKE: SITOP for or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	01 no
11.	Test control unit MSI-TR1B Response time < 20msec Sensor test response time=60msec Current Consumption=200mA Supply voltage=24VDC Contact load=2A/250V AC MAKE: LEUZE or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	01 no
12.	<i>Test control unit</i> <i>OPPENWEIER</i> <i>D-71570</i> <i>ART NO.: 50010</i> <i>I/P: 4-30VDC O/P:</i> <i>4-44VDC I=0.5A</i> <i>Make: Murr Electronik</i> or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	01 no
13.	Fuse TYPE: 3RT2916-1BB00 AC: 24 TO 48V DC: 24 TO 70V CONTACTOR FUSE Make :-Siemens or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	05 nos.
14.	Fuse L9E804 TYPE: ATY-N, 32V BATTERY FUSE Make:-Siemens or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	05 nos.

15.	Relay module 8 Pin, Part No:-40.52.9.204.5000 Coil voltage: 24VDC Contact rating: 8A, 250VAC Make : RINA PRODUCT or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	06 nos.
16.	Relay : 8 PIN , Part No:- 34.51.7.024.5010 Coil voltage: 24VDC Contact rating: 6A, 250VAC Make : RINA PRODUCT or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	06 nos.
17.	Safety relay Type: SRB301MC-24V Rated current consumption: max. 100mA, Rated operating voltage: 24VDC/24VAC (CLAMP A1/ A2) 3 NO contact, DC13: 24V/6A, AC15: 230V/6A 1 NC contact, max. 24V/2A Fuse rating >500mA Make: SCHMERSAL or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
18.	Relay Type-SR2M V23047-A1024-A501 Rating: 6A/250VAC Coil voltage: 24VDC Make: SCHRACK or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	05 nos.
19.	RELAY DEK 0-24VDC Part ORD. NO. 29 64 22 2 Coil voltage: 24 VDC O/P: 5-30 VDC Make:- PHONEX CONTACT or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	10 nos.
20.	MCB/RCB Type:C16 , 5SY4116-7 Make: Siemens or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	05 nos.
21.	AUXILIARY CIRCUIT SWITCH Type: - 5ST301.AS Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	05 nos.
22.	MCB/RCB C6, Type: -5SY4106-7 Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	05 nos.
23.	RCB C10, Type: -5SY4110-7 Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
24.	RCB C20, Type: 5SY4120-7 Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
25.	RCB C4, Type:- 5SY4104-7 Make: SIEMENS or exact equivalent in respect of electrotechnical feature for	02 nos.

	direct replacement without any modification.	
26.	RCB Type: -5SJ4116-7HG40 16A (C) Cu only Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
27.	RCB Type: 5SJ4101-7HG40 , 1A (C) Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
28.	RCB B10 Type:5SU1354-6KK10 , 30Ma RCB0 Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
29.	MCB C10 DOUBLE POLE, Type: 5SY4210-7 Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
30.	RCB B16 Type: 5SV1313-6KK16, 30mA Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
31.	RCB B10 Type:- 5SV1313-6KK10 30mA Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
32.	RCB Type:-REX12-TA2-107 DC24V-6A ETA Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
33.	RCB Type:-EM12-T01-001 DC24V-40A, ETA Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
34.	ELECTRONIC OVER CURRENT PROTECTOR Type:- REX12-TB1-107 DC24V-10A Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
35.	ELECTRONIC OVER CURRENT PROTECTOR Type: - REX12-TB1-107 DC24V-1A Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
36.	ELECTRONIC OVER CURRENT PROTECTOR Type: - REX12-TB1-107, DC24V-6A Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
37.	ELECTRONIC OVER CURRENT PROTECTOR Type:- EM12-T01-001 DC24V-4A Make: SIEMENS or exact equivalent in respect of electrotechnical feature for	02 nos.

	direct replacement without any modification.	
38.	RCB Type:- 5SJ4101-7HG40 Make: SIEMENS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
39.	Touch Screen panel with integration of control consol & machine program Type:-1002261941, PartNo:L0082594 Size: 60 cm X 39.5 cm (L X W) Make: -KBA ,Eizo or exact equivalent in respect of software, electrical and mechanical feature for direct replacement without any modification.	02 Nos.
40.	HUB-8D1, Complete with the IO configuration as per our machine requirement. HUB, Switch 3000, Part No: L0076649, 24VDC, 0.31A, 16×RJ45 Make: Phoenix contact or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 Nos.
41.	Ethernet switch, Complete with the IO configuration as per our machine requirement. Type- L0076648, 24VDC, 0.21A, 8xRJ45 Make: Cisco contact or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 Nos.
42.	Ethernet switch: Complete with the IO configuration as per our machine requirement. Type-L0076659, -408D2, 24VDC, 5 Ports, M12-D Make: Cisco contact or exact equivalent in respect of electrotechnical feature for direct replacement without any modification..	02 Nos.
43.	Module CI512 , Complete with parameter setting along with the IO configuration as per our machine requirement. KBA Part No: L0072280, (=PLC20-KF1) Type:1SAP221000R3002, EtherCAT Bus module, UP 24VDC, 200W I/P 24VDC, O/P 24VDC, 0.5A, 1-wire, IP20 ETHERCAT SLAVE: 8DC 8DI 8DO MAC: 00-24-59-19-89-B4 Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	04 Nos.
44.	Module DC532 , Complete with parameter setting along with the IO configuration as per our machine requirement. KBA L0864338, (=PLC20-KF2) Type: 1SAP240100R3001 Digital I/P/ O/P module 1-wire, IP20 UP 24VDC, 200W I/P 24VDC, O/P 24VDC, 0.5A, 16DI/ 16DC Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	04 Nos.
45.	Module AX522 , KBA L0864337, (=PLC20-KF4) Type: 1SAP250000R3001 Analog I/P/ O/P module, AI: +-10V, 0/4...20mA, Pt100, 2 wire, IP20 AO: +-10V, 0/4...20mA, 12 Bit +sign UP 24VDC, 5W	02 Nos.

	8AI 8AO Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification. Complete with parameter setting along with the IO configuration as per our machine requirement.	
46.	Module PD501, KBA L0864388, (=PLC20-KF5) Type: 1SAP260100R3001 Positioning module, 4DO 24VDC, 4/3 A, ½ wire, 4AI 10 Poti, 24 VDC, 80W UP 24VDC, 400W 4AI 1AO 4DO Complete with parameter setting along with the IO configuration as per our machine requirement. Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 Nos.
47.	Module DC551, Complete with parameter setting along with the IO configuration as per our machine requirement. KBA L0864339, Type: 1SAP220500R3001 CS31 Bus module, 1-wire, IP20 UP 24VDC, 200W I/P 24VDC, O/P 24VDC, 0.5A CS31 8DI 16DC Make:-ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	03 nos.
48.	Module TA524, Complete with parameter setting along with the IO configuration as per our machine requirement. Part No: L086383, Type: 1SAP180600R3001 Dummy coupler module Empty module for covering non-used slots. Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	03 nos.
49.	Module EC583, Complete with parameter setting along with the IO configuration as per our machine requirement. Part No:- L0866103, Type: 1SAP140500R3272 CPU 256 KB Ethernet IP20, 2xserial, FBP, Display SD slot MAC: 00-24-59-15-5A-ED 24VDC, 10W CPU Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	03 nos.
50.	Module CM579, Complete with parameter setting along with the IO configuration as per our machine requirement. Part no: L0077531, Type: 1SAP170902R3101 Communication module, EtherCAT Master,	02 no

	int. 2-port switch RJ45, MAC: 00-24-59-19-3D-48 Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	
51.	ITC of IO modules, CPU, HUB & Switches (Line item No:40 to 50) and configured as per our machine requirement. The firm have to installed and load the program & parameter as per machine requirement's do not have source code and GCD file for the above drive.	01 AU
52.	Solenoid Coil: Baldwin (-YB7.1), Type: PEV-1/4-B-OD 175250, P243, 250VAC, 125VDC, 0.1-1.2 MPa, 1-12 bar Make: Festo or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 Nos.
53.	Solenoid Coil: =D-W64S1 Type: DSA1-S01W-1M1A 250VAC, 300mA, Pn=51bar, 12-30 VDC, 2-10mA, Pmax=4.5bar Make: SKF or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 Nos.
54.	Solenoid Coil: PL.SRDR++SD+P-WG2 Type: SCE210D095, ZP22015769, Make: ASCO or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
55.	Festo coil: =PI3.SEDP3++SD+P-WG4, 13 Type: VACF-B-C1-1, 8030811 (1721059) 24VDC, 3.3W, IP00/65 MAKE: Festo or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
56.	Festo coil: =SDP=PI3.SEDP3++SD+P-WG2 Type- SPTE, 571485, 08-2022, 0...1MPa 18-30VDC, Make: Festo or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
57.	Festo coil: =D-W244A1-B1 527467 Type: SDE5-D10-0-Q6E-P-M8 15-30VDC, 0...1MPa, 10-2022:13, 855H Make: Festo, or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
58.	Festo coil: =SDP=PI3.SEDP3++SD+P-WG2 Type-SPTE, 571485, 08-2022, 0...1MPa 18-30VDC, Make: Festo, or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
59.	Festo Coil: 119603 Type: MDH-3/2-24VDC/42VAC 24VDC/42VAC, 8.4W (14/10VA), IP00/65, Make: Festo, or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
60.	Solenoid Coil: =SD W431-Y1, Y2, Part No: L0842858, 3G0,75mm², 10m Make: Festo, or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no
61.	Solenoid Coil: Thermoregulation (=X. TLTT-WG5) Type: AME 435 Code no.: 082H0161 24 VAC/DC, 50/60Hz, 4.5VA, 400N, IP54, Temp. = 55 C, Stroke: 20mm, 7.5-15 S/mm,	02nos.

	Make: Danfuss or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	
62.	Solenoid Coil: =X. TLPU-BP1 Type-PSM02, Part No.: 14205066 SP: 0.5 bar, Pmax.: 60 bar, Umax.: 250V, Imax.: 4A Make: Vika or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
63.	Solenoid Coil: Type: MSZE-B-3-24V (2971063) 1.28W, 24VDC, IP00/65 Make: Festo or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
64.	Solenoid coil: Type: MSEB-3-24V (1658460) 1.5W, 24VDC, IP00/65 Make: Festo or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.,	02 nos.
65.	Solenoid coil SE and CO, =SESA++SF+2F-WG8 Type: R-R-FTO-KC-2018-1058, DE- 73734 Make: FESTO or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
66.	Solenoid coil =SESA++SF+3F-WG7 Type: MHE2-M1H 3/20-M7 196150 01 2022:43 21.6-26.4VDC, 2.88W, 0.09-0.8MPa, 24VDC, Class (e) 2, IP65 Make: FESTO or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
67.	Solenoid Coil: Baldwin (-Y7) Type: BDV08C24CY, Reg.Nr.: D402, 24VDC, 11W, ED 100%, Class H, Tu=60 C Make: CRJUS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
68.	Solenoid Coil: Baldwin (-YB7.1) Type: PEV-1/4-B-OD 175250, P243, 250VAC, 125VDC, 0.1-1.2 MPa, 1-12 bar Make: FESTO or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
69.	Solenoid Coil: Baldwin (-Y11.1) 20A, 24VDC, 8W, MB10, -5C...+50C Make: Lurano (BG) or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
70.	Solenoid Coil: (-Y2.4) 18W, 24VDC, Part no. 0000000.9150 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
71.	Solenoid Coil: (-Y2.5) 8W, 24VDC, Part no. 0000000.9100 Make KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
72.	Translucent sensor along with (Pressure sensor: Black rubber) Master Esch 72 48691 Vreden Germany U<50 VAC, 75 VDC, I<0.5A Schaltleiste HSC 4020 01 T VC0018416	03 no's

	Size:---0.445m (Printing unit + Upper side of Printing unit at side I) Make: HAAKE or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	
73.	Translucent sensor along with (Pressure sensor: Black rubber) Master Esch 72 48691 Vreden Germany U<50 VAC, 75 VDC, I<0.5A Schaltleiste HSC 4020 01 T VC0018416 Size:--0.615m (Upper side of Printing unit at side II) Make: HAAKE or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no
74.	Translucent sensor along with (Pressure sensor: Black rubber) Master Esch 72 48691 Vreden Germany U<50 VAC, 75 VDC, I<0.5A Schaltleiste HSC 4020 01 T VC0018416 Make: HAAKE or exact equivalent in respect of electrotechnical feature for direct replacement without any modification. Size:--- 1.93m (Downward at Verso side)	01 no
75.	Translucent sensor along with (Pressure sensor: Black rubber) Master Esch 72 48691 Vreden Germany U<50 VAC, 75 VDC, I<0.5A Schaltleiste HSC 4020 01 T VC0018416 Make: HAAKE or exact equivalent in respect of electrotechnical feature for direct replacement without any modification. Size:--- 2.72m (Downward at Recto side)	01 no
76.	Translucent sensor along with (Pressure sensor: Black rubber) Master Esch 72 48691 Vreden Germany U<50 VAC, 75 VDC, I<0.5A Schaltleiste HSC 4020 01 T VC0018416 Make: HAAKE or exact equivalent in respect of electrotechnical feature for direct replacement without any modification. Size:--- 2.29m (ceiling at Recto side)	01 no
77.	Safety bar (Infrared sensor) along with Transmitter & Receiver Details OYAO310-40-2-12-P-1 45128 Essen OYO525 Transmitter Type-2 S.No. 070393 U: 19.2 to 28.8 VDC, I: 42 mA System Response time≤ 5ms Size:--DELIVERY (0.355m) Make: IFM electronics or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos. (Complete set Tx & Rx)
78.	Safety bar(Infrared sensor) along with Transmitter & Receiver Details OYAO310-40-2-12-P-1 45128 Essen OYO525 Transmitter Type-2 S.No. 070393 U: 19.2 to 28.8 VDC, I: 42 mA	02 nos. (Complete set Tx & Rx)

	System Response time≤ 5ms Size:--RECTO+VERSO(1.40m) Make: IFM electronics or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	
79.	Safety bar (Infrared sensor) along with Transmitter & Receiver Details OYAO310-40-2-12-P-1 45128 Essen OYO525 Transmitter Type-2 S.No. 070393 U: 19.2 to 28.8 VDC, I: 42 mA System Response time≤ 5ms Size:--RECTO+VERSO(1.24m) Make: IFM electronics or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos. (Complete set Tx & Rx)
80.	Guard Sensors along with <u>Tx details:</u> 541053 V1.5 PSEN cs3.1n FCC ID: VT8-PSENC3 IC: 7482A-PSENC3 <u>Rx details:</u> SA006655905 YOM 2019 PSEN CS3.1n 541080 V2.0 Make: Pilz or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	2 nos. (Complete set Tx & Rx)
81.	Preloaded PC2100 with HMI Delivery Pile 1 =PI1.HM21-PH1 1-002-337-319/L0083343 C-Fast 32GB Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	03 nos.
82.	Preloaded PC2200 with HMI for Inking units (Verso) and Inking units (Recto) +WD11S-402A1-D1 1-002-337-319/L0083343 C-Fast 32GB Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
83.	Preloaded PC2200 with HMI for Printing unit +1DK-303A1-D1 1-002-337-319/L0083343 C-Fast 32GB Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
84.	Preloaded PC2200 with HMI for Thermoregulation =TE+TU+S1-PH1 1-002-337-319/L0083343 C-Fast 32GB Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
85.	Pre-Programmed HMI for Dalmer Chiller Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
86.	Lift with RK multi controller set Inking units Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
87.	Way sensor/Distance sensor along with Delivery Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
88.	Baldwin (A1) Type: CM24DIN-V1.1-A01 20748.017	01 no.

	Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	
89.	Baldwin (A2) Type: CM24DIN-V1.1-A01 20747.10 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
90.	280F1/284F1/286F1/287F1/290F1/290F2 Type: SRB301MC-24V Make: SCHMERSAL or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
91.	Bechhoff (77D1) Type: EK1100 ESC Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
92.	Bavaria digital Technik Type: POM-KF1 Delivery Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
93.	Bavaria digital Technik Type: D-874596 Recto Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
94.	Verso DT WD-403A1 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
95.	Recto DT SD-403A1 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
96.	PI3.HMI2.SZ1 Pile 3 DT Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	03 nos.
97.	Feeder DT D-304A1 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
98.	Preprogrammed Feeder DT HMI1+1F-SZ5 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
99.	Master card Colortronics Type: ZOM_SCL V.2-0-5_0 50/20 L0073230-A Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	05 nos.
100.	Slave cards Colortronics L0071002/L0864861 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	05 nos.
101.	Front lay movement controller card	01 no.

	Type No: XXXX Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	
102.	Feeder pile front edge detection sensor along with Type: KA-958B V1.21 Make: Leuze or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
103.	Lateral Pile alignment sensor along with Type: DFRKR 95/44-50L Make: Leuze or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
104.	Front lay sensor along with Type: RK 771/0.8.4 Make: Leuze or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
105.	Camera Exhaust Fan Type: SAN ACE 60 Model: 9GA0612G9001 DC=12V, 0.27A EP 092018P It is pair of two exhaust fan and mounted on camera. L5446230-0081 Make: Sanyo Denki or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
106.	Vertical adjustment sensor along with == feed sheet ++sheet feeder BG1 and BG2, Initiator, 3.2mm, 1NC 1000185767 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
107.	Vertical adjustment sensor along with == feed sheet ++sheet feeder BG3 and BG4, Initiator, 2mm, 1NO 1000185717 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	04 nos.
108.	Side Edge Regulation Sensor along with == feed sheet ++sheet feeder =align sheet BG1, Light Barrier, 0-50mm, 1000197387 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01 no.
109.	Side Edge Regulation Sensor along with cable == feed sheet ++sheet feeder =align sheet BG2, Initiator, 4mm, 1NO, 1000185719 Make: KBA or exact equivalent in respect of electrotechnical feature for direct	02 nos.

	replacement without any modification.	
110.	Sensors, Pile Combining along with cable == feed sheet ++sheet feeder =lift/ lower pile 2 BG4, Photo sensor reflector, 800-4000mm, 1000197347 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02 nos.
111.	Sensors, Pile Combining along with cable == feed sheet ++sheet feeder =lift/ lower pile 2 BG5, Initiator, 3.2mm, 1NO, 1000185765 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01no.
112.	Infeed Monitoring Sensor along with cable ==Sheet Infeed 234A1, 234A2, 234A3, 234A4 Page no.: ===B+B1S&EFS/234.1 Photo sensor 24VDC Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	04nos.
113.	Side Lay Control Sensor along with cable ==Sheet Infeed 240A1, 240A2 Page no.: ===B+B1S&EFS/240.1 Photo sensor 3-10mm Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02nos.
114.	Make Ready Sheet Sensor along with cable ==Sheet Infeed 250B2 Page no.: ===B+B1S&EFS/250.1 Foto Sensor Linse 6-12mm Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01nos.
115.	392B2 sensor (Inductive sensor) along with cable Inking Carriage movement Initiator, 2mm, 1NO, M8-3pol. Page no.: ===D+D1S&EFS/392.7 Make: KBA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	04 nos.
116.	Preprogrammed HMI with Digital Controller: MK5 Serial Nr.: SRS2215950103 Part no.: P1900520450 Model: Touch/OICD Make: Psi Control, made in Romania or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01
117.	Chiller Main Switch (S10): along with extension rod, rotary switch complete mechanism & it's auxiliary Type: SIRCOM80 22003008 switch disconnecter AC23A, Ve=415V, Ie=80A,50Hz	01

	IEC 60847-3 GB/T14048.3 Make: SOCOMEC or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	
118.	MCB: 2-pole I _n =1A, GB2CD06 Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02
119.	MCB: 2-pole I _n =8A, GB2CD14 Make: ABB or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02
120.	<u>Contactors (KM31) with Auxiliary contact:</u> Type: LC1D09 I _{th} =25A, 690V, 50/60Hz IEC/EN 60947-4-1, U _{imp} =6kV AC-3, 230V, 2.2kW AC-3, 400V, 4kW JIS V 200-220 440 C8201-4-1 kW 1.5 4 Make: Schneider Electric TeSys <u>Auxiliary Contact:</u> 1NO+1NC Make: Schneider, siemens or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02
121.	<u>Motor Protection Circuit Breaker (Q31):</u> Type: GV2-RT14 I _e =6-10A, U _e =690V, U _{imp} =690V, 50/60Hz U _e I _{cu} (kA) I _{cs} %I _{cu} 400/415V 100 100 690 3 75 IEC/EN 60947-2 IEC/EN 60947-4-1 cat A, AC3 JIS C8201-2 C8201-4-1 Make: Schneider Electric or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01

122.	<u>Circuit Breaker</u> Type: GV2ME14 I_e=6-10A, U_e=690V, U_{imp}=690V, 50/60Hz <table><tr><td>U_eI_{cu} (kA)</td><td>I_{cs}</td><td>%I_{cu}</td></tr><tr><td>400/415V</td><td>100</td><td>100</td></tr><tr><td>690</td><td>3</td><td>75</td></tr></table> IEC/EN 60947-2 IEC/EN 60947-4-1 cat A, AC3 JIS C8201-2 C8201-4-1 Make: Schneider Electric or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	U _e I _{cu} (kA)	I _{cs}	%I _{cu}	400/415V	100	100	690	3	75	01			
U _e I _{cu} (kA)	I _{cs}	%I _{cu}												
400/415V	100	100												
690	3	75												
123.	<u>Contactor with Auxiliary contact: (Beside Q11)</u> Type: LC1D65A I_{th}=80A, U_i=690V, U_{imp}=690V, 50/60Hz AC-3, 230V, 18.5kW AC-3, 400V, 30kW IEC/EN 60947-4-1 <table><tr><td>JIS</td><td>V</td><td>200-220</td><td>440</td></tr><tr><td>C8201-4-1</td><td>kW</td><td>15</td><td>30</td></tr></table> <u>Auxiliary contact:</u> Type: PK22191B 1NO+1NC Make: Schneider Electric TeSys or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	JIS	V	200-220	440	C8201-4-1	kW	15	30	01				
JIS	V	200-220	440											
C8201-4-1	kW	15	30											
124.	<u>Thermal Magnetic Motor Circuit Breaker with Auxiliary Contact(Q11):</u> Type: GV3P65 I_e= 48-65A, U_e=690V, U_{imp}=6kV, 50/60Hz IEC/EN 60947-2 cat1 IEC/EN 60947-4-1 cat AC3 CI.10A <table><tr><td>U_eI_{cu} (kA)</td><td>I_{cs}</td><td>%I_{cu}</td></tr><tr><td>230-240V</td><td>100</td><td>100</td></tr><tr><td>400-415V</td><td>50</td><td>100</td></tr><tr><td>440V</td><td>50</td><td>100</td></tr></table> <u>Auxiliary contact:</u> Type: PK22191B 1NO+1NC Make: Schneider Electric or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	U _e I _{cu} (kA)	I _{cs}	%I _{cu}	230-240V	100	100	400-415V	50	100	440V	50	100	01
U _e I _{cu} (kA)	I _{cs}	%I _{cu}												
230-240V	100	100												
400-415V	50	100												
440V	50	100												
125.	<u>Relay (K56):</u> Type: 34.51.7.024.0010 P13E Coil volt. - 24VDC, Contact Rating - 6A, 250VAC Contact Configurations: Single Pole Double Throw Make: Finder RINA or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01												

126.	<u>Magnetic Safety Sensor with cable:</u> Type: SR BD42AM0.1 C22 SR1-652570 1.4X.6.12.13 Ind. Cont. Eq., E496318, 1NO+1NC contacts 24V, 0.25A (Resistive load) <u>Cable details:</u> PVC cable, length 3m with M12 connector, 4 pole Make: Pizzato or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02
127.	<u>Exhaust Fan:</u> Rosenberg Ventilation GmbH, D-74653 Type: AKFD 800-6-6 G 6HF A2 Art. Nr.: E62-80272 U (V): 400D/Y, F=50Hz P1 (kW): 1.3/0.8 I (A)=2.7/1.42 n(min): 860/655, IA/IM:3.3, R('C):60, C (μF, 400V) 2220037 Make: Rosenberg Ventilation or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	02
128.	<u>Power Supply:</u> INT69 SC2 Diagnose Part no.: 071-0684-00 (22A 620) Supply: 115-230VAC, 50Hz 120-240VAC, 60Hz, 3VA Relay max. 240VAC max., 2.5A, C300 TA=-30'C.....+70'C Make: KRIWAN or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01
129.	<u>Liquid Level Sensor along with cable:</u> Type: S1B4530100025G0S1LJ1 Code: 000002B204 Electrical data: 300V, 0.5A, 70VA Batch:220005 Insertion stem length: 100mm Electrical Junction: LJ1 (DIN 43650) Make: VAL.CO or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01
130.	<u>Temperature Sensor with cable: (TT1.1)</u> Type: E352430 Temperature sensor Range: -40 to 125 'C The operating temperature range of the wire is : -40 to 80 'C Highly durable cable, 4.5 meters long AWM 2464 23 AWG VW-1 80'C, 300V, DAOWANG Make: MEGATRON SENSORS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	03

131.	<u>High Pressure Sensor along with cable: (PT11)</u> Type: NSK-BE0501-U009 6181 Pressure Range: -1 to 50 bar Output Signal: Ratiometric 0.5 to 4.5 VDC Operating Temperature: -30 °C to 100 °C Make: Danfoss or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01
132.	<u>Low Pressure Sensor along with cable: (PT21)</u> Range:0.00.....30.00 bar abs I/P signal = DC 5V, O/P signal = Ratiometric 0.5 to 4.5VDC Serial no.: 030090730102150057 Process Connection Torque:30Nm max. Make: JUMO, MIDAS SI or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01
133.	<u>Pressure Switch: (PS1)</u> 380 NC 290 26.2NC20 TS-22/212°F PS 45bar 6A, 240VAC TS- 30/85°C 6A, 250VAC 061F9713 ACB-2UB813MW 2 251PL Class 1, Div 2, Gr.D.T4 Make: Danfoss or exact equivalent in respect of electrotechnical feature for direct replacement without any modification.	01
134.	<u>RH Controller with Indicator: Type:SZ-2711</u> Sr. No.: SZ2711X082300607 Rev 04 Relay: 8(3)A/250VAC Alarm: 5A/250VAC RH I/P: SZ-HS-220 Make: Sub Zero or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	02
135.	<u>RH Sensor with cable:</u> Type: SZ-HS-220 RH sensor with range 30% to 90% 3 wire, Accuracy= $\pm 5\%$, Input=5VDC Make: Sub Zero or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	02
136.	<u>Temperature Controller with Indicator:</u> Type: SZ-7529T-REO Power: 2.8VA max. T=0-60°C, R.H.: 20-80% Probe: NTC (SZ-T75) Compressor: 20(14) A, 250 VAC Make: Sub Zero or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	02
137.	<u>Temperature Sensor with cable:</u> Type: SZ-T75-1500 1.5m NTC sensor cable: 2-wire Thermistor = 10k Ω @25°C Temperature = (-50°C to 99°C) Metal pipe: Diameter 5mm x Length 25mm Make: Sub Zero or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	02

138.	<u>Exhaust Fan: (16cm Diagonally distance of screw)</u> Model: 120X120X38 Voltage: 220-240V, 50-60Hz, 0.18A Material Type: Plastic Type Impedance Protected Make: J-LOCK or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	01
139.	<u>Contactor:</u> Type: TC1D2510-E 3~ V 220V 380-440V AC3 kW 5.5 11 Alongwith 2NO +2NC auxiliary contacts Make: C & S electric or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	01
140.	<u>Capacitor:</u> 45μF, 440VAC, ±5%, 450V B32322, 50Hz, PO 25/70/21 MPP 'SH' 20.23N 123399596 Make: EPCOS or exact equivalent in respect of electrotechnical feature for direct replacement without any modification	02
141.	Power Supply (834G3) I/P: 100-240VAC O/P: 24-28VDC, 50Watts Make: - PULS or exact equivalent in rating & mounting	01No.
142.	Power supply Dimension QS5 (834G6) I/P: 100-240VAC O/P: 24-28VDC, 120/180Watts Make - Plus or exact equivalent in rating & mounting	01No.
143.	Relay (834K1) Type: ER12-002-UC A1/A2: 8-230VAC 16A/250VAC Make: Eltako or exact equivalent	02Nos.

Terms and Conditions: -

- The firm will have to confirm that offered PLC, module, ethernet switch, Drives, power source, UPS and relay module and other spare are suitable for direct replacement on our Super Simultan Evo machine, Sr. No:64402203 without any modifications.
- ISP do not have the source code, GCD files of the PLC, drive and module. Therefore, the firm will have to load the machine program, parameter of the offered IO module, drive and module without the source code & GCD files.
- The offered Drive, Ethernet switches & IO modules, sensors must be programmed & configured as per our 08-color machine requirement.
- The firm will have to confirm that offered spares are suitable for direct replacement on our Super Simultan Evo machine, Sr. No:64402203 without any modifications.
- The firm will have to give 01-year free replacement warranty for the offered material.
- While submitting offer firm should consider the auxiliary parts, add on essentials, cable, connectors, mounting accessories required for the offered items which are not mentioned in enquiry but required.
- The firm should have to provide the technical details and data sheet along with the offered material.
- The firm will have to supply spare with required flash card, memory card, cable and connector as per the machine specific requirement.
- Item, No:134 to 140 required for DEHUMIDIFIER, Model: DPS48000C, Sr.No.: 1565-10-23

- Item No:16-133 are required for Chiller unit, Make: DALMAR IMPIANTI S.P.A. Model Type: CDR-EVO-50.

Annexure 'B'

Detail of the Rapida Machine Electrical Spares: -

Sr.No.	Material Description	Qty.
01	Ink duct motor Type- CNVMS-6105G-87/G Sr.No.- DEO783541, Bj 06/2019 Pi- 0.75kw, n1- 3000rpm, M2- 197Nm, Fb – 0.67, L0863910 Make: - Sumitomo cyclo, Europe or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
02	Ink Control Card Slave Type: G122-020-023 Make: BDT or exact equivalent for direct replacement on our machine without any electrotechnical modification.	03 nos.
03	Ink Control card Master Type: G122-061-011 Make: BDT or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01 no.
04	Overcurrent Protector V9L1 (Rapida) Type- VAL-MS-320ST of Phoenix contact Uc-335VAC, Up-1.6kv, In- 20KA, Imax- 40KA 28 38 84 3 Make – Phoenix Contact or exact equivalent for direct replacement on our machine without any electrotechnical modification.	04Nos.
05	Microswitch (Rapida Brake switch) Type – V4NCS T840T80C-GP of Burgess make Dimension of switch: - L=20mm, w=12mm, H=7mm Mounting holes =2, Distance between holes – 10mm Two wire switch. Make – Burgess, Omron or exact equivalent for direct replacement on our machine without any electrotechnical modification.	10Nos.
06	Microswitch (Rapida main motor Manual door guard switch) Type- AA-338364, 1NO+1NC T- 10Amp, 230VAC/6A Make - Kronenberg or exact equivalent for direct replacement on our machine without any electrotechnical modification.	04Nos.
07	Linear Pressure Motor Type- Junior 2, Hub – 150mm, Un- 24VDC, In – 6Amp, P- 145Watt, S3-15%, IP- 54, Make – Elero GmbH Linear or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
08	Festo Bus Module(327A1-D1) Type: - CPX-FB37& CPX50E-F05GCEQPERZ+ Part No: - L0077639, 24V DC, ETHERCAT Make: - Festo or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
09	Festo Electric control module The module should complete with CS31 communication & 2-port for addressing.	04Nos.

	Type - CPV10-GEDI 01-8 165809 P407 HW 02.11.00 SW 14.01.99 BG (384674) PN 022181, 24VDC Type: Festo or exact equivalent for direct replacement on our machine without any electrotechnical modification.	
10	Multiplex card +523 A1-A4 (SPEL008466) Part No.- L0847293 Position - +5/2.5 Make: BDT or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
11	PLC Module with programming Type: 07KT 94 for +121 A7 For perforation module Make ABB or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
12	PLC Module with programming Type: 07KT 94 for +131 A1 For main control panel Make: - ABB or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
13	PLC Module with programming Type: 07KT 94 for +523 A1 For Numbering and P.U. unit Make: - ABB or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
14	PLC Module with programming Type: 07KT 94 for +131 A2 For Feed unit module. Make ABB or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
15	Main motor Tacho with carbon brushes for Rapida machine (SPEL019463) Type - GHTS 46 500202119, Art. No.- 00326634 10mA, 60V, 1000/min, nMax.- 4000/min, This Tacho is required for main motor of Rapida machine which details are as below: - G Mot, Type - GNA 1 32 MN, SI. No.- 10201877 & 10504481 440V, 118A, 47KW, 2900rpm, Err. 310Volt., 3.7Amp ISOL/KL.H, IP-23S, KD-ZN P163 1000 Make: - Bauller Kamenz or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
16	PLC Module with programming 07KT 92 for Feeder unit version V.3.11 Make ABB or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
17	PLC Module with programming 07KT 92 for Delivery unit V.3.10 Make ABB or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
18	Pre-programmed Registration Controller (Registration Unit) Type- ATRC-338-08CH Input: 180 - 230V AC 50/60 Hz Output: Controlled 08 Channel, 24V DC Make - ATS or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01No.

19	Pre-programmed Stepping Driver (Registration Unit) BH-Smart-6A, Version 1.01 Input: - 20- 72VDC, Output – 2-6.5A Micro Stepping – 200, 400, 800, 1600, 3200 Make - Bholenath or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01No.
20	Pre-programmed Hybrid Motor drive Controller (Registration Unit) Type: SDR-6 Smart Drive, Input: 20 - 24V DC Output: 3.6 Khz Three Outputs, 24 V DC, 6 Amp Make: ATS or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01No.
21	Relay Card (Registration Unit) Type: GP08 2C, 8 Channel, 2 C/O Contact, 24 VDC -Ve/ +Ve or Isolated looping by site selectable Jumpers OEN Relay, Make: Shavision or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.
22	Pre-programmed EHUB – Communication card (Registration Unit) Ethernet Hub: 05 Way, Type: DES-1005 Make: D Link or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01No.
23	Preprogrammed Rapida registration Graphic operation Display Model – GS 2110-WTBD-N In- 24VDC Power – 7.6watt Mac Address – 3.0BE3BEB812C Size 800 x 480 Make- Mitsubishi Electric or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01No.
24	Hybrid Servo stepper motor (Registration Unit) Sr.No.- 575H1003004AK PCSPL Current – 3Amp, 1.8-degree step angle, Holding Torque – 15Ncm, class H, Input – 5 to 24VDC, PPR- 1000 Make – Precision Make, ATS or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02Nos.

Terms and Conditions: -

1. The firm will have to confirm that offered PLC, module, power source, motors, IO modules, HMI, drives and other spares should be preprogrammed as per our Rapida machine requirement and are suitable for direct replacement on our Rapida machine without any modifications.
2. ISP do not have the source code, GCD files of the PLC, modules. Therefore, the firm will have to load the machine program, parameter on the offered PLC & modules.
3. The firm will have to confirm that offered spares are suitable for direct replacement on our Rapida machine without any modifications.
4. The firm will have to give 01 years warranty for the offered material.
5. While submitting offer firm should consider the auxiliary parts, add on essentials, cable, connectors, mounting accessories required for the offered items which are not mentioned in enquiry but required.
6. The firm should have to provide the technical details and data sheet along with the offered material.

Annexure 'C'

Specification of electrical and electronics spares for Kisscut Machine: - Machine

Name: - Kiss cut perforation machine.

Model No.: WS7050V Sr.No.:
09/14745

Make: WISTA, Germany GmbH

Spare part lists of Kiss cut machine:

S.No.	Part name	Details of parts	Qty.
1.	Motor for lift table feeder (8M1)	Type: MISD4 W75 U Code no.: MG2401330011 0.37KW, rpm-1370, pf-0.76 Make: BONFIGLIOLI RIDUTTORI or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
2.	Double sheet control sensor, 5 wire, along with Rx and Tx. (17B1)	Type: dbk-4/Empf/COD/0/M18 Sn=40+/- 3mm, U _B =20-30VDC I ₀ <45mA, I _{Lmax} .=2*500mA Ultrasonic Sensor Make: Microsonic or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
3.	Human machine interface with pre-programmed parameters and machine program. (24K1)	Type: HMI505 EL 110N PLC Part No.: 3354-0001 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
4.	Feeder motor along with gear box and motor control card (26M1)	Type: UGP/STG61, i=6.25A, 176443066038, Factory 276, 320, 375-450rpm, 24VAC, 25.8μF, 136402203315 317 Make: SAIA or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01 set
	Motor Control card (26K1)	Type: BS 380-00154-2	
5.	Battery stand-by module (2T2)	Type: UP1-133 Battery Stand-by module I/P:27.5VDC O/P: 24VDC/40A Make: ELME or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
6.	Drive for magnetic roll complete with pre-programmed (6K1)	Type: EVS9325-ET, Id. No.: 13432237 I/P: 3/PE AC 400-480V, 12A, 10KVA, 50/60Hz O/P: 3/PE AC 0-480V, 13A, 10.8KVA, 0-600Hz	01

		Overload: 1.5 X IN for 60 sec UL Fuse: 25A/600V Product No.: 07114782, Sr. No.: 000013 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	
7.	Drive for alignment roll complete with pre-programmed parameters (7K1)	Type: EVS9324-ET, Id. No.: 13208779 I/P: 3/PE AC 400-480V, 2.5A, 2.1KVA, 50/60Hz O/P: 3/PE AC 0-480V, 2.1KVA, 0-600Hz Overload: 1.5 X IN for 60 sec UL Fuse: 10A/600V Product No.: 02407375, Sr. No.: 000006 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
8.	Drive for feeder up down movement with pre-programmed parameters (8K1)	Type: EVF 9322-EV, Id. No.: 13295707 I/P: 3/PE AC 400-480V, 2.5A, 2.1KVA, 50/60Hz O/P: 3/PE AC 0-480V, 2.1KVA, 0-600Hz Overload: 1.5 X IN for 60 sec UL Fuse: 5A/600V Product No.: 02391672, Sr. No.: 000003 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
9.	Drive for motor belt feeder complete with pre-programmed parameters.(9K1)	Type: EVF 9322-EV, Id. No.: 13295707 I/P: 3/PE AC 400-480V, 2.5A, 2.1KVA, 50/60Hz O/P: 3/PE AC 0-480V, 2.1KVA, 0-600Hz Overload: 1.5 X IN for 60 sec UL Fuse: 5A/600V Product No.: 02391672, Sr. No.: 000017 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
10	Drive for table stacker complete with pre-programmed parameters. (10K1)	Type: EVF9321-EV, Id. No.: 13431957 I/P: 3/PE AC 400-480V, 1.5A, 1.2KVA, 50/60Hz O/P: 3/PE AC 0-480V, 1.5A, 1.2KVA, 0-600Hz Overload: 1.5 X IN for 60 sec UL Fuse: 6A/600V Product No.: 07191674, Sr. No.: 000021 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
11	Drive for motor belt delivery complete with pre-programmed parameters. (11K1)	Type: EVF 9322-EV Id. No.: 13295707 I/P: 3/PE AC 400-480V, 2.5A, 2.1KVA, 50/60Hz O/P: 3/PE AC 0-480V, 2.1KVA, 0-600Hz	01

		Overload: 1.5 X IN for 60 sec UL Fuse: 5A/600V Product No.: 02391672, Sr. No.: 000001 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	
12	Drive for motor sheet brake delivery device complete with pre-programmed parameters. (12K1)	Type: EVF 9322-EV, Id. No.: 13295707 I/P: 3/PE AC 400-480V, 2.5A, 2.1KVA, 50/60Hz O/P: 3/PE AC 0-480V, 2.1KVA, 0-600Hz Overload: 1.5 X IN for 60 sec UL Fuse: 6A/600V Product No.: 02425736, Sr. No.: 000009 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
13	Paper sensor along with cable	Type: WT 12L-2B510 1017959 DC 10-30V, O/P:100mA Photoelectric sensor Make: SICK or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02
14	Contrast sensor (X12) along with cable	Type: YM24PAH2ANZ Range: 150mm, 10-30VDC, PNP, 200mA Make: Wengler or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02
15	Sheet delivery sensor (20B2) along with cable	Type: E3Z-LS81, LOT-M3J, 23709 Japan PNP Photoelectric sensor Make: OMRON or exact equivalent for direct replacement on our machine without any electrotechnical modification.	04
16	Feeder adjustment sensor along with cable (17B2)	Type: EC3016PPAPL UB=10-40VDC, I_{max}= 200mA Capacitive proximity sensor Male: Triple Shield™ or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
17	Limit switch (17S1)	Type: IEC 60947-5-1 IP67 1NO/1NC U_i=500V, Type1 Make: SCHMERSAL or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02
18	Magnetic roller motor with gear box (6M1)	Type: MDSKSR8071-33 Id. No.: 15004146 S.No.: 1500 4146 10000 17080 1378	01

		325VAC, 10A, 4.6kW, 180Hz, 3600rpm Max. 45A, IP54, 325VAC C416: 52900800 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	
19	Drive motor: Synchronous servomotor with gear box (7M1)	Type: MDSKSR8071-03 Id. No.: 13407317 S.No. 134073170000173854622 330VAC, 2KW, 4.2A, max. 19A, 170Hz, 3400rpm C416: 54955982 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
20	Fast breaker for valve suction wheel (24K2)	Type: DS1/V2 Ser. No. 52322 24VDC, 100mA, 2×1A Software: DS1X100 23.05.2000 Make: Digi Electronics Automations Anlagen or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
21	Limit switch at stacker for pile up and down (23S1)	Type: LS-02 IEC/ EN60947-5-1 13R 4X 12 13 GB14048.5 A006657 2NC AC-15 400V/4A, 230V/6A, 115V/6A DC-13 220V/0.3A, 110V/0.8A, 24V/3A Make: Moeller or exact equivalent for direct replacement on our machine without any electrotechnical modification.	03
22	Relay with base for sheet monitoring (15K1)	Relay details: 24VDC, Type-V23057-B0006-A401 KR510024, 8A/250VAC Make: SCHRACK or exact equivalent for direct replacement on our machine without any electrotechnical modification. Relay base: No. 2942153 EMG 10-REL/KSR-G, 24/21-LC Ch. No. 4500687305, 45/09	01
23	Relay for open brake lift table stacker (22K1)	Type-3TX7002-3AB01 Part Order no. 3ZX1012-0TX70-2BA1 IEC60947-5-1 GB14048.5/ 50Hz Coil volt. - 24VDC Out 13/14 ≤DC 60V/≤1.5A Make: Siemens Sirius or exact equivalent for direct replacement on our machine without any	02

		electrotechnical modification.	
24	Preprogrammed HMI for Kiss cut (24K1)	Type-EC110PLC P/N: 3354-12 Input DC 24V, max. 12W Rev. 2B.40 File E236341 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
25	CPU preprogrammed as per machine (14K1)	Type- EPM-T110 1C.14 Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
26	Digital input PLC (14K2)	Type: EPM-T211 1V DI 16×DC 24V Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02
27	Digital output PLC (14K4)	Type-EPM-T223 1C DO 16×DC 24V 1A Make: Lenze or exact equivalent for direct replacement on our machine without any electrotechnical modification.	02
28	Safety relay XV1P (5K1)	Type-PNOZ XV1P 3/24VDC 2n/o 1n/o T Id. No. 777601141349 3s 24VDC, 3.5W AC15 230V, 1.5A AC1 240V, 5A DC13 24V, 2A DC1 24V, 5A Make: Pilz or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
29	Monitoring Sheet Sensor along with cable (15B1)	Type: E3Z-LS81 LOT 1T416M-CHINA PNP, Photoelectric sensor Make: Omron or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
30	Clutch belt feeder coil (22Y2)	Article: YSLYO- JZ3X0.75 Volt:24 VDC Dimension: L= 7cm, B= 7cm, T=4cm Make: Wista or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
31	Clutch Solenoid Coil (At feeder	Type Nr.: GLE040 506501	01

	side)	GL40E/86, Coil resistance: 46 ohm, 24vDC. 0.516 amp KLN550 W8 , Curve "s" 9.2W Make: KENDRION or exact equivalent for direct replacement on our machine without any electrotechnical modification.	
32	Tower lights complete with mounting assembly	Tower Sector: Steady + Flasher + Buzzer Model No. 3-LTSB-D2, Voltage:24VDC Indication- Red, Green and Amber Make: Targets Electricals or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01
33	Air break Contactor with auxiliary contacts 2NO +2NC	Type: DL EM-01-G Coil voltage: 24VDC Rating: 10A Make: Moeller or exact equivalent for direct replacement on our machine without any electrotechnical modification.	04
34	Power contactor with auxiliary contacts 2NO+2NC	Type: DILM12-01 Coil voltage: 24VDC Rating: 18A Make: Xstart or exact equivalent for direct replacement on our machine without any electrotechnical modification.	01

Terms and Conditions: -

- a. The firm will have to confirm that all the spares are suitable for direct replacement on our kiss-cut machine without any modifications.
- b. The firm will have to give 01 years warranty of the said spares.
- c. The firm will have to provide the duly programmed PLC and I/O modules, sensors, drives etc. as per machine requirement. ISP do not have copy of source code and program of PLC, HMI etc.
- d. The firm will have to provide duly programmed and parameter loaded Drive for direct replacement on our machine
- e. The firm will have to provide the complete set of motor including gear box.