



प्रतिभूति मुद्रणालय SECURITY PRINTING PRESS

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No. 6000017379/SPPH/A-II/E-412/2022-23/3129

Date: 30.11.2022

CORRIGENDUM

This is to notify that against Tender Enquiry No. 6000017379/SPPH/A-II/E-412/2021/4881 dated 29.03.2022 for Supply, Installation, Testing and Commissioning of Six Colour Sheet Fed Offset Printing Machine for Printing on Polymer/Plastic and Paper Substrates, Qty-01 No amendment is as follows:

Sl. No.	Clause No.	For	Read As
	2	BASIC CONFIGURATION OF THE MACHINE:	
1	2.1	Min. Paper size : 280x400mm	Min. Paper size (straight mode): 280 mm x 400 mm or smaller sheet size. Min. Paper size (Perfecting mode): 340 mm x 350 mm or smaller sheet size.
2	2.11	Max. printing area in single side printing: 580 x 740 mm	Max. Printing area is single side printing: 580x740mm or bigger.
3	2.13	Printing leading edge : 44 mm	Printing leading edge : 44mm or lesser.
4	2.14	Printing Plate thickness : Wet-Offset 0.3 mm and dry Offset 0.58 mm	Printing Plate thickness : Wet-Offset 0.3 mm and dry Offset up to 0.73 mm.
	3	SALIENT FEATURES OF THE MACHINE:	
5	3.5	Should be capable of rainbow printing. As per corrigendum dated 27/06/2022, Supplier should provide at least 20 nos. of dividers as given below: i) 6 mm Dividers : 10 nos. ii) 8 mm Dividers : 05 nos. iii) 12 mm Dividers : 05 nos.	Should be capable of rainbow printing. Suitable dividers with thickness between 3mm to 12mm - 30 Nos. Break up of different width sizes will be provided to the successful vendor.
6	3.9	Should have "Programmable ink flow system".	Should have Programmable ink flow system as per Clause 7 of the specifications.
7	3.14	Combined drive system: gear train drive and longitudinal shaft (depending on the configuration)	Gear train drive or Combined drive system of gear train drive and longitudinal shaft.
	4	FEEDER UNIT	
8	4.2	Manual adjustment of the suction head (size and height) with manual size adjustment and correction of the side sheet stop.	Automated / Manual adjustment of the suction head (size and height) with automated/manual size adjustment and correction of the side sheet stop.
9	4.19	Suction tapes feed board should be made of antistatic textured sheet metal with suction air system.	Suitable feed board to ensure smooth feeding of the sheets.

10	4.28	Manual adjustment of the suction head (size and height) with manual size adjustment and correction of the side sheet stop.	Deleted due to repetition (Point No. 4.2)
11	4.33	Suction tapes feed board with integrated sheet slowing down device and two, individually controllable suction tapes for better productivity.	Suction tapes feed board with integrated sheet slowing down device and with suitable suction belt(s) ensuring better productivity.
	5	INFEED:	
12	5.1	Infeed area, with transparent cover.	Infeed area, with transparent / suitable cover.
13	5.2	Electromotive sheet arrival control (early and late sheet correction with +/- key by electromotive changing of the feeder timing). Operation at printing unit 1.	Sheet arrival control (early and late sheet correction with +/- key by electromotive changing of the feeder timing). Operation at printing unit 1 & Feeder.
14	5.5	Clock-pulsed sheet hold-down device in front of the lay covers and front lays.	Suitable mechanism for sheet slow down and feeding of the sheets to the front lays.
15	5.8	Automatic height adjustments to the lay covers.	Automatic height adjustments to the lay covers as per design of the machine.
	6	DAMPENING UNIT:	
16	6.4	Tandem rollers and water fountain roller with lateral distribution.	Suitable rollers and water fountain rollers for uniform dampening.
17	6.5	Skewing of the water metering roller in relation to the ink fountain roller for quick adjustment to different print images (differential speed: water metering roller - ink fountain roller).	Suitable mechanism for quick adjustment of the dampening meter roller in relation to ink fountain roller for different print images.
18	6.6	Water fountain roller with ceramic coating for brilliant printing results and high wear resistance.	Water fountain roller with ceramic/ chrome coating for brilliant printing results and high wear resistance.
19	6.7	Gumming of the printing plate via the water form roller for an efficient preservation of reusable plates. All rollers can be separated after gumming.	Suitable roller wash-up programme should be capable of cleaning the printing plate.
20	6.10	Dampening Station: dampening solution cooling device with digital multifunction display, temperature adjustment function, alcohol stabilizer and dosing unit, without connection to control console (the components used should be configuration -dependent). The exhaust air is given off above/away from the ancillary equipment outside.	Dampening Station: Dampening solution cooling device with digital multifunction display, temperature adjustment function, alcohol stabilizer and dosing unit. If needed, the exhaust air is given off above/away from the ancillary equipment outside.
22	6.15		Dampening solution working pump

			should supplied along with 01 No. of Stand-by Pump.
	7	INKING UNIT:	
23	7.3	Quick ink change provision: Ink fountain coating for a quick ink change and for a quick and environment - friendly cleaning of the ink fountains. For excellent productivity.	Quick ink change provision: Suitable mechanism for a quick ink change.
24	7.6	Quick Change Colour - self-learning ink pre-setting for process colours and special colours for 1 colour category and up to 3 types of printing material. Program-supported optimization of the ink slide pre- setting and pre-selectable saving of optimum slide profiles for repeat jobs.	Suitable Quick Change Colour mechanism program- To support optimization of the ink slide pre-setting and pre-selectable saving of optimum slide profiles for repeat jobs.
25	7.7	Ink fountain roller with adjustable, interval-controlled reversing for automatic cleaning of the area between the ink fountain blades and the ink fountain roller for a permanently uniform ink density and a top printing quality.	Suitable ink fountain system to ensure uniform density and top printing quality.
25	7.8	Speed compensation of the inking unit through characteristic-controlled adaptation of the feed angle for the ink fountain roller and ink doctor roller for optimum ink transfer.	Suitable mechanism to be provided for optimum ink transfer in the ink fountain and ink duct roller.
26	7.9	Ink duct roller cycle precision adjustment (1:3, 1:6, 1:9, 1 :12 and 1:18) for adaptation to different ink demands and for prevention of over inking.	Ink duct roller cycle precision adjustment (1:3, 1:6, 1:9, 1:12 and 1:18) OR via fountain roller speed and zone adjustments for adaptation to different ink demands and for prevention of over inking.
27	7.10	Automatic adaptation of the ink duct roller position in relation to ink fountain roller and vibrator roller for a constant ink transfer over a longer period of time. The adaptation of the duct roller position serves to compensate signs of wear on the ink duct roller.	Suitable mechanism to be provided for a constant ink transfer in the inking system.
28	7.13	The commencement of the lateral distribution of the vibrator rollers be set during the printing process from the command console. Especially for applications with several identical multiple copies on the sheet.	The commencement of the lateral distribution of the vibrator rollers be set either from the command console or manually on each printing unit.
29	7.14	Provision for basic preparations for subsequent retrofitting of an inking	All Inking units to be provided with temperature control system.

		unit temperature control system.	
30	7.15	Sufficient and suitable nos. of ink form rollers with different diameters and infinitely adjustable axial distribution between +/- 8 mm.	Sufficient and suitable No. of ink form rollers with different diameters and infinitely adjustable minimum axial distribution of +/- 4mm.
31	7.19	Setting range 0 - 0.5 mm (setting step: 0.002 mm).	Suitable ink zone setting system to get an homogenous ink film on the rollers
32	7.21	Machine should be prepared for connecting the inking unit temperature control device including prepared rollers, rotary transmitters and supply lines (up to outer edge of machine) and the electrical interface for connecting the ancillary equipment.	Deleted due to repetition (Pont No.7.14)
	8	PRINTING UNIT:	
33	8.1.2	Power Plate Loading - highly automated plate change with separate parking position for new and used plates, integrated position control and high-precision guide elements for the mounting and removal of aluminium plates.	Semi-Automated Plate Change System capable to either load Wet Offset Plate of 0.3mm and Dry Offset Plate of 0.58mm/0.73 mm.
34	8.1.3	Plate register device with electronic positioning control for absolutely accurate initial registers.	Plate register needs to be adjustable at the control station in segments of 0.01 mm-horizontal, vertical and diagonal.
35	8.16	Plate undercut Suitable for accommodating 0.58 mm dry offset Nylo plates	Plate undercut Suitable for accommodating 0.73 mm dry offset Nylo plates
36	8.2.7	Automatic blanket cleaning wash-up device; brush wash-up system with high-speed washing programs which are programmed on a demand-oriented basis.	Suitable automatic programmable blanket cleaning wash-up device with high speed washing system.
37	8.2.8	Brush wash-up system with integrated supply and disposal circuits, washing agent container and collecting container.	Blanket Cleaning system with suitable mechanism for washing agent container and collecting container.
38	8.3.3	Select Cleaning System - impression cylinder washup device - wash-up device with brush for the impression cylinders of the printing units.	Select Cleaning System - impression cylinder wash-up device - wash-up device with suitable mechanism for the cleaning of impression cylinders of the printing units."
	9	PERFECTING UNIT:	
39	9.1	Single cylinder perfecting unit with air systems built in for smooth turning of the sheet. Position of the perfecting unit shall be after the 1st printing unit.	Suitable mechanism for perfecting unit to be provided for smooth turning of the sheet. Position of the perfecting unit shall be after the 1st printing unit. "
40	9.2.2	Remote minimum adjustment of the diagonal register (+/- 0.4 mm) from the command console, for reliable	Remote minimum adjustment of the diagonal register (+/- 0.15 mm) from the command console, for reliable

		diagonal register corrections without negative impact on the printing quality.	diagonal register corrections without negative impact on the printing quality.
41	9.2.6	Remote adjustment of the fans of the sheet guiding tracks in the printing units on the command console (reversible suction air/blast air, segmented fan allocation, adjustment values can be saved for repeat jobs).	Remote adjustment of the fans of the sheet guiding tracks in the printing units on the command console, adjustment values can be saved for repeat jobs.
	11	ADDITIONAL OPTIONS TO BE PROVIDE WITH THE MACHINE:	
42	11.2	Automatic in line ink control system along with automatic inline registration control system that is closed loop and communicates with the main computer system of the machine, to be installed after last printing unit.	Suitable ink control system to communicate with the main computer system of the machine.
43	11.3	Inline measurement of density along with RGB-flash illumination with standard conform polarization filters integrated, and should have simultaneous measurement of all ink zones, for a complete measurement of all six, Spot colours to be measurable with self-cleaning system. The system must measure control strip perfectly.	Suitable system for density measuring system which is communicates with the main computer system of the machine.
	12	DELIVERY:	
44	12.9	Provision for manual size adjustment of the rear sheet stop and the side sheet joggers.	Suitable System for adjustment of the rear sheet stop and the lateral sheet joggers.
45	12.10	Provision for manual setting of the suction disks in axial direction.	Suitable mechanism for sheet stability.
	13	COMMAND / CONTROL CONSOLE	
46	13.1	RCI (Remote Controlled Inking) operator keyboard.	Suitable computer-controlled ink fountain control system.
47	13.4	Ergonomic operator keyboards on printing units, feeder and delivery: membrane panels with backlit full-graphics display	Ergonomic operator keyboards on printing units, feeder and delivery.
48	13.5	Integrated colour matching lamp with normal-light lamp (D50/5000 Kelvin).	Integrated colour matching lamp with normal-light lamp (D50/5000 Kelvin) or with Suitable Flexible LED System.
49	13.8.7	Remote control of the ink zones; the ink density profile is displayed in graphic form on the monitor and in numeric form on the RCI keyboard (console).	Remote control of the ink zones, ink density profile display on console. In case of rainbow printing, the ink zone setting is manual.
50	13.8.1 1	Adjustment of the distribution timing while production is in progress.	Adjustment of the distribution timing must be done for each printing unit,

			when machine is not in progress.
51	13.8.2 0	Interface to connect Ethernet-capable ancillary equipment/ devices, released by OEM, to the central control console of the printing machine.	Suitable Interface mechanism to connect Ethernet or Canbus-capable ancillary equipment/ devices, released by OEM.
	14	TELE-PRESENCE:	
52	14.3	Tele Presence software.	Tele-presence or Remote Maintenance Support
53	14.6	Video transmission using a webcam.	Deleted due to Security reasons
54	18	SHEET FED PRESS AND COATING MODULE WITH EXTENSION IN THE DELIVERY:	
55	18.1	Drier path 5105 mm.	The drier path range between 3100 - 5800 mm.
56	18.2	Line collecting blade system for best quality and excellent productivity.	Suitable blade system like chamber doctor blade for best quality and excellent productivity.
57	18.3	E-Line collecting blade system arranged on the delivery side. Equipped with a quickly exchangeable duct blade, coating drip pan and special hoses.	Suitable blade arrangement, equipped with quickly exchangeable duct blade, coating drip pan and special hoses.
58	18.4	Two hose pumps including hose set for the supply and return flow. There are two tanks for two types of coatings.	Two hose pumps including hose set for the supply and return flow.
59	18.6	Quick screen roller change (with covers) for excellent productivity	Suitable Quick Screen Roller change Mechanism
60	18.7	Screen roller store integrated in the coating module (for max. two rollers).	Internal or External Screen roller store facility integrated in the coating module (for min. two rollers).
61	18.8	Impression cylinder blowing device, for high printing quality even with rigid stock.	Suitable mechanism at impression cylinder for high printing quality even with rigid stock.
62	18.9	Wetting device for best quality	Wetting device for the best quality, if needed.
63	18.10	Automatic wetting device at the coating screen roller edges, for preventing premature wear on the doctor blade seal due to dried coating (no chemicals - only water).	Suitable wetting device at the coating screen roller edges, for preventing premature wear on the doctor blade seal due to dried coating (no chemicals - only water).
64	18.11	Form cylinder undercut 2.6 mm (identical to the blanket cylinder undercut).	Forme Cylinder Undercut to be provided as per machine manufacturer's design.
65	18.14	Remote minimum adjustment of the lateral register (+/- 1 mm) and circumferential register (- 0.5 to + 1.5 mm) on the coating form cylinder.	Lateral Adjustment of min. +/-1mm or higher; and circumferential register of +/-1 mm.
66	18.15	Remote minimum adjustment of the diagonal register (+/- 0.4 mm) on the transporter.	Minimum adjustment of diagonal register of min. +/-0.4mm or higher.

67	18.18	Sheet guide with an increased number of fans under the transporter in the coating module.	Suitable sheet guide system in the coating module.
68	18.19	Sheet guide with an increased number of fans under the delivery drum.	Suitable sheet guide system under delivery drum.
69	18.21	Automatic blanket wash-up device cleaning system. Wash-up device with brush in the coating module, for removing set-off printing ink from the forme cylinder by washing.	Suitable facility of Automatic/ manual wash-up device for blanket and impression cylinder at crawl speed.
	20	ACCESSORIES FOR THE MACHINE:	
70	20.6	Compressor for compressed air supply by piston compressor for supplying the compressed air consumers with oil and condensate-free compressed air.	Suitable design of compressor for supplying moisture free and oil free pressured air to all air consumers in the machine.
71	20.9	Inking and dampening unit rollers with Bottcher coverings.	Inking and dampening unit rollers with reputed company make coverings.
72	20.10	Ink rollers with special covering for the alternative use of conventional inks and UV-inks.	Ink rollers suitable for printing of UV inks and conventional inks respectively.
	22	TRAINING AFTER COMMISSIONING OF THE MACHINE AT PURCHASER'S SITE:	
73	22.3.1	Installation of system software including drivers.	Installation of system software including drivers by the firm.
74	22.3.3	Uploading and downloading of programme of PLCs, HMI, Drives and other major electronic components	Uploading and downloading of programme of PLCs, HMI, Drives and other major electronic components, Installation of system software including drivers by the firm.
75	22.4.1	Complete setting and mechanical timings of all the gears, cams and its synchronization with electrical / electronic system.	Setting and mechanical timings of the gears, cams and its synchronization with electrical/electronic system at important locations.
76	22.4.4	Complete working and fault rectification through computer control system	Frequent working and fault rectification through computer control system
77	Section I: Notice Inviting Tender (NIT) Closing date and time for receipt of tenders is 02.12.2022, 10:45 AM (IST)		Section I: Notice Inviting Tender (NIT) Closing date and time for receipt of tenders is 20.12.2022, 10:45 AM (IST)
78	Section I: Notice Inviting Tender (NIT) Time and date of opening of tenders is 02.12.2022, 10:45 AM (IST)		Section I: Notice Inviting Tender (NIT) Time and date of opening of tenders is 20.12.2022, 10:45 AM (IST)

All other terms & conditions remain same.

(Sd/-)
Manager (Materials) – CPSO
(for Chief General Manager)