



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
MARITIME INDUSTRY AUTHORITY

TECHNICAL SPECIFICATIONS

Project Description	SEAFARER'S IDENTITY DOCUMENT (SID) PRINTERS AND SEAFARER'S RECORDBOOK (SRB) PRINTERS																										
Approved Budget of the Contract	The Approved Budget for the Contract (ABC) for the said project is <u>Seven Million Pesos (Php 7,000,000.00)</u> inclusive of VAT and other applicable government taxes, chargeable against the approved budget of MARINA for 2025.																										
Specifications/ Deliverables	<p>1. MARINA SID Printer with Laminator:</p> <p>Below are the minimum specifications of the Five (5) Units of Direct-to-Card Printer with Laminator (HID Fargo DTC5500 LMX) to be procured:</p> <table border="1" data-bbox="407 1225 1430 2502"> <tr> <td data-bbox="407 1225 667 1333">Compatibility</td> <td data-bbox="667 1225 1430 1333">Fully compatible to the current MARINA SID Personalization system; Works with the current consumables used by MARINA;</td> </tr> <tr> <td data-bbox="407 1333 667 1381">Print Method</td> <td data-bbox="667 1333 1430 1381">Dye sublimation / resin thermal transfer</td> </tr> <tr> <td data-bbox="407 1381 667 1430">Resolution</td> <td data-bbox="667 1381 1430 1430">300 dpi (11.8 dots/mm) continuous tone</td> </tr> <tr> <td data-bbox="407 1430 667 1478">Colors</td> <td data-bbox="667 1430 1430 1478">Up to 16.7 million / 256 shades per pixel</td> </tr> <tr> <td data-bbox="407 1478 667 1553">Print Speed</td> <td data-bbox="667 1478 1430 1553">6 seconds per card (K*); 16 seconds per card (YMCKO*); 24 seconds per card (YMCKOK*)</td> </tr> <tr> <td data-bbox="407 1553 667 1669">Security Features</td> <td data-bbox="667 1553 1430 1669">Password-protected printer operation or resin scramble data protection or fluorescent panel printing</td> </tr> <tr> <td data-bbox="407 1669 667 1784">Accepted Standard Card Sizes</td> <td data-bbox="667 1669 1430 1784">CR-80 (3.375" L x 2.125" W / 85.6 mm L x 54 mm W) and is compatible to the current MARINA Seafarer's ID (SID) blank card</td> </tr> <tr> <td data-bbox="407 1784 667 1873">Print Area</td> <td data-bbox="667 1784 1430 1873">CR-80 edge-to-edge (3.370" L x 2.125" W / 85.6 mm L x 54 mm W)</td> </tr> <tr> <td data-bbox="407 1873 667 2061">Accepted Card Thickness</td> <td data-bbox="667 1873 1430 2061">Print / lamination: .030"(30 mil) - .040" (40 mil) / .762 mm - 1.02 mm and is compatible to the current MARINA SID blank card</td> </tr> <tr> <td data-bbox="407 2061 667 2214">Accepted Card Types</td> <td data-bbox="667 2061 1430 2214">PVC, PET, or Composite with polished PVC finish; monochrome resin required for 100% polyester cards and is compatible to the current MARINA SID blank card</td> </tr> <tr> <td data-bbox="407 2214 667 2303">Input Hopper Card Capacity</td> <td data-bbox="667 2214 1430 2303">Dual-input card hopper (200 cards)</td> </tr> <tr> <td data-bbox="407 2303 667 2389">Output Hopper Card Capacity</td> <td data-bbox="667 2303 1430 2389">Up to 100 cards. (.030" / .762 mm)</td> </tr> <tr> <td data-bbox="407 2389 667 2502">Card Cleaning</td> <td data-bbox="667 2389 1430 2502">Card cleaning roller integrated into ribbon cartridge; cleaning roller is automatically replaced with each ribbon change</td> </tr> </table>	Compatibility	Fully compatible to the current MARINA SID Personalization system; Works with the current consumables used by MARINA;	Print Method	Dye sublimation / resin thermal transfer	Resolution	300 dpi (11.8 dots/mm) continuous tone	Colors	Up to 16.7 million / 256 shades per pixel	Print Speed	6 seconds per card (K*); 16 seconds per card (YMCKO*); 24 seconds per card (YMCKOK*)	Security Features	Password-protected printer operation or resin scramble data protection or fluorescent panel printing	Accepted Standard Card Sizes	CR-80 (3.375" L x 2.125" W / 85.6 mm L x 54 mm W) and is compatible to the current MARINA Seafarer's ID (SID) blank card	Print Area	CR-80 edge-to-edge (3.370" L x 2.125" W / 85.6 mm L x 54 mm W)	Accepted Card Thickness	Print / lamination: .030"(30 mil) - .040" (40 mil) / .762 mm - 1.02 mm and is compatible to the current MARINA SID blank card	Accepted Card Types	PVC, PET, or Composite with polished PVC finish; monochrome resin required for 100% polyester cards and is compatible to the current MARINA SID blank card	Input Hopper Card Capacity	Dual-input card hopper (200 cards)	Output Hopper Card Capacity	Up to 100 cards. (.030" / .762 mm)	Card Cleaning	Card cleaning roller integrated into ribbon cartridge; cleaning roller is automatically replaced with each ribbon change
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Memory	128 MB RAM
Software Drivers	Windows® 7 / 10 / 11 / Server 2012 / Server 2016 / Server 2019 / Server 2022
Interface	USB 2.0 and Ethernet with internal print server (IPv4- and IPv6-compatible; with support for SNMPv3) Note: IPv6 only compatible with Windows 10
Operating Temperature	65° to 90° F / 18° to 32° C
Humidity	20–80% non-condensing
Agency Listings	Safety: UL 60950-2, CSA C22.2 (60950-07), and CE; EMC: FCC Class A, CE (EN 55022 Class A, EN 55024), CCC, BSMI, KCC
Supply Voltage	120-240Vac, 50-60Hz, 1.6 Amps max.
Supply Frequency	50 Hz / 60 Hz
Supported Access Control Credential Programming	iCLASS® Std/SE/SR/Seos, MIFARE Classic™, MIFARE DESFire® EV1, HID Prox, or equivalent
Chip Encoding Capability	Can support the current smart card encoder and is compatible to the current MARINA SID personalization module
Warranty	Three (3) years on parts and service

2. MARINA SRB Printers:

Below are the minimum specifications of the Three (3) Units of Booklet Printer to be procured:

Compatibility	Fully compatible to the current MARINA SRB Personalization system; Works with the current consumables used by MARINA;
Printing	Color inkjet printing, 4-color thermal inkjet printing head, 4 800 dpi, Ink cartridges: C, M, Y Pigmented ink, K pigmented ink (infra-red reflective) Ink cartridge capacity: 5000 to 8000 booklets
Vision & Illumination	Integrated 2Mpixel digital camera Software driven illumination LED bar: White, Red, Green, Blue, UV-Blue, Infra-Red
Performance	One-pass personalization process: Page 2 printing: up to 180 booklets per hour
Media	ICAO 9303 paper booklets, page size from 124.8mm to 125.2mm, from 24 up to 96 pages
Operation	Front operated, manual open booklet insertion and retrieval Multi-lingual LCD to monitor printer's messages and ink level
Computer requirements	USB 2.0, Windows 7 & Windows 10, 32 & 64 bits, from i5 processor, RAM 8GB, HD 1TB
Software Development Kit (SDK)	Supplied with printer's software & documentation kit compatible with the current MARINA SID-SRB Personalization Software

	<table border="1"> <tr> <td>Main Characteristics</td> <td>100-220 VAC 50/60Hz</td> </tr> <tr> <td>Warranty</td> <td>Three (3) years on parts and service</td> </tr> </table>	Main Characteristics	100-220 VAC 50/60Hz	Warranty	Three (3) years on parts and service
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Delivery Terms <i>(to be determined by the End-User)</i>	120 Days from the receipt of Notice to Proceed To be Delivered / Installed at: <ol style="list-style-type: none"> 2 Units of SID Printers at MARINA Central Office 1 Unit of SID Printers at MARINA Regional Office IV – Batangas 1 Unit of SID Printers at MARINA Regional Office VI – Iloilo 1 Unit of SID Printers at MARINA Regional Office IX – Zamboanga 3 Units of SRB Booklet Printers at MARINA Central Office The cost of delivery / installation to MROs and CO is at the expense of the supplier.				
Other End-User Requirements <i>Ex. Warranty, photos of the product and other end-user requirements</i>	<ol style="list-style-type: none"> As part of Post-Qualification, a “functional test” of the same model equipment to be delivered by Contractor/Supplier should be conducted. Provision of a service unit with similar or higher specification in case the printer is for repair or beyond repair. 				
Payment Terms <i>(Government terms 15-30 CD)</i>	<ol style="list-style-type: none"> Payment shall be made within 15-30 calendar days subject to the submission of the billing statement and other supporting documents of the bidder and the issuance of a certificate of satisfactory service by MARINA Payment shall be made through the list of due and demandable accounts payable with advice debit account (LDDAP-ADA); and The supplier shall provide the bank account wherein payment will be credited, preferably a LandBank of the Philippines account; otherwise, the supplier shall bear the bank charges. 				
Documentary Requirements	Eligibility and Technical Documentary Requirements <ol style="list-style-type: none"> PhilGEPS Certificate of Registration and Membership Valid Mayor’s/Business permit Income/Business Tax Return Certificate of Exclusive Distributorship or Exclusive Dealership from the HID Fargo Manufacturer issued to Direct Contractor/Supplier <i>(if mode of procurement is Direct Contracting)</i> Certificate of Exclusive Distributorship or or Exclusive Dealership from the Surys Manufacturer issued to Direct Contractor/Supplier <i>(if mode of procurement is Direct Contracting)</i> Certification by the Direct Contractor/Supplier that they have Authorized Technicians of the HID Fargo and Surys products 				

Prepared by:


JOSEPH VICTOR S. GENERATO, Ph.D.
Director II, Management Information Systems Service
End-User