



**Procurement of Consultancy Services as Systems Integrator for the
Supply, Delivery, Installation, and Maintenance of the Philippine
Identification System (PhilSys)**

Government of the Republic of the Philippines

PHILIPPINE STATISTICS AUTHORITY

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Volume 2: Technical Specifications

ANNEX H

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ANNEX H - Registration Kits Technical Specifications

Item	Specifications	
Laptop(HP Laptop PROBOOK 445 G6)		Must be included in the Leaders and Visionaries levels in the Magic Quadrant for Enterprise Desktop and Notebooks based on the latest study done by Gartner Inc. (NYSE:IT)
	Processor	AMD Ryzen 5 2500U with Radeon Vega Mobile Gfx 2.00Ghz
	Ram	8Gb DDR4
	System Type	64bit Operating System
	Storage	128 GB SSD (PCIe); and • Minimum 1 TB internal HDD, SATA Interface With hard drive retention option
HD Webcam(Logitech C930E)	Capture Mode	Plain live capture
	Image Quality	Full Frontal (0x01) as per ISO/IEC 19794-5 in jpeg2000 format and compliant with ICAO 9303 standards
	Minimum resolution	For HD Webcam: Full HD 1080p (1920 x 1080 pixels) or higher
	Capture Mode	Manual capture with auto focus and auto lighting adjustment
	Lens	For HD Webcam: HD Webcam (1080p), must be capable of taking ICAO standards-compliant facial images
	Software API	Compliant with registration software and operating system
Fingerprint (4+4+2) slap capture equipment (GREENBIT DACTYSCAN86C)	Image quality	ISO 19794-4 and ISO 19794-2
	Standards	FBI Appendix F Certified and Compliant with ISO/IEC 19794-4:2011
	Scan resolution	500 dpi/ppi or higher (higher densities preferred).
	Output Image format	JPEG2000 or WSQ (1:15 compression)
	Image evaluation frame rate	Greater than 3 frames per second; continuous image captures
	Capture area	Greater than or equal to 76mm x 80mm
	Software API	Compliant with the operating system and registration software application's device manager specifications to handle device discovery, streaming, capture and encryption.
Iris capturing equipment	Viewfinder	Internal with capture distance of greater than 50 mm, capture volume (width x height x depth) 20 x 15 x 12 mm and exposure time of less than 33 ms

Item	Specifications	
(IRITECH BK2121U)	Iris Diameter	As per ISO 19794-6:2011 medium and higher quality images are acceptable. Minimum acceptable iris diameter is 150 pixels.
	Rotation angle	Before compression, Iris image will have to be preprocessed to calculate rotation angle. ISO 19794-6:2011 ready for rotation angle calculation for rectilinear images.
	Illumination	The eye should be illuminated using infrared or any other source that could produce high quality grayscale image.
	Format	Lossless JPEG 2000 with CBEFF ISO 19794-6
	Aspect Ratio	1:1
	Spatial Resolution	>60% @ 4.0 Lp/mm
	Pixel Resolution	>16 Pixels/mm
	Image evaluation frame rate	5 frames/second, continuous capture
	Imaging wave length	700-900nm
	Number of simultaneous captured eyes	2 (two)
	Capture Mode	Auto capture with configurable and built-in quality check (incorporates NIST quality considerations)
	Color and Pixel depth	The iris images shall be captured and stored in grey scale with pixel depth of 8 bits/pixel.
	Image margin	50% left and right of Iris diameter 25% top and bottom of Iris diameter.
	Scan Type	Progressive
	Sensor SNR	>36db
	Standards	ISO/IEC 19794-6 (output iris image) ISO/IEC 29794-6 (quality of the image) FCC Class A RoHS Exempt Group as per IEC 62471:2006-07 (eye safety)
Software API	Compliant with the operating system and registration software application's device manager specifications to handle device discovery, streaming, capture and encryption.	
Portable Document Camera Scanner (ELOAM S600)	Image Sensor	Minimum CMOS of 5 mega pixels.
	Scan Resolution	Minimum of 300 dpi
	Scan Size	Can support documents with sizes smaller than A4 and Legal size

Item	Specifications	
	Focus Mode	Manual or Autofocus
	Light	LED supplement light
	Connectivity	USB 2.0

Table 1. Registration Kits Technical Specifications