



REPUBLIC OF THE PHILIPPINES
PHILIPPINE STATISTICS AUTHORITY

Reference No. 2019-BAC01-83

24 October 2019

SUBJECT: Bid Bulletin No. 2

Dear Prospective Bidder:

This serves as the official transmittal of Bid Bulletin No. 2 for the Procurement of Supply, Installation, Support, and Maintenance of Automated Biometric Identification Systems for Philippine Identification System (PhilSys). This bulletin is being issued to amend the Bidding documents and clarify queries from prospective bidders.

Please be informed that the contents of the Bidding Documents that have not been modified shall remain in full force and effect.

This bulletin shall be posted both on PHILGEPS and PSA website

Truly yours,


CANDIDO J. ASTROLOGO, JR.
Chairperson
Bids and Awards Committee





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Supply, installation, support and maintenance of Automated Biometric Identification Systems (ABIS)
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BB2-001	PBD Vol 2, Page 45, Sec 11.19, Load Requirement	<p>GALLERY SIZE</p> <p>It has been clarified that the initial sizing and proposal in the bid must assume 110M records. This will be extended to 150M in the future.</p> <p>The tender document also mentions biometric updates and keeping of old records per person in the system. According to the specs, the old records will be kept and used for matching. Does the 110M gallery include only 1 (most recent) record per person?</p> <p>OR</p> <p>Does the 110M gallery refer to 110M persons with multiple records/enrollments? If multiple enrollments are assumed, how many per person on average should be assumed by the sizing? E.g. 110M persons * 2 records (1 most recent and 1 archived) = 220M biometric records in total.</p> <p>OR</p> <p>Does the 110M gallery include multiple records per person? E.g. 110M records contain 55M persons, each with 2 biometric records.</p>	<p>The 110M records in the ABIS gallery refers to 110M unique persons.</p> <p>If a Registered Person's record is updated, "the updated record shall not be treated as a new record for the purpose of ABIS licensing. The old record will not be deleted from the gallery and ABIS database. The ABIS should undertake the 1:N deduplication from the ABIS Gallery including the deactivated records."</p> <p>The volume of these biometric updates is estimated at 25% of the total records.</p>
BB2-002	<p>PBD Vol 2, Page 34, Sec 10.6, ABIS Biometric Matcher</p> <p>Page 21, Sec 8.5.2, Methods of Authentication</p>	<p>BIOMETRIC MODALITIES FOR MATCHING</p> <p>In my understanding, both fingerprint and iris will be used for each identification/deduplication (1:N). Face will be used for authentication/verification (1:1) only. Face authentications are performed outside of ABIS using SDK.</p>	<p>"The system shall have the functionality of 1:N deduplication with reference to fingerprint and iris biometric modalities captured during registration with the existing biometric gallery in the ABIS solution."</p> <p>Authentications will only use BioSP's SDK. Authentications using a PSN,</p>

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		Are all my statements above correct?	PSN Token or Alyas PSN and an image of a fingerprint, iris and/or face of a person claiming an identity are performed outside of ABIS Solution.
BB2-003	PBD Vol 2, Page 45, Sec 11.19, Load Requirement	DEDUPLICATION THROUGHPUT We assume peak throughput 8500 deduplications per hour. Is that correct?	Yes. Peak Registration batch process per hour (incl. backlog) for peak capacity is estimated at 8,500 registration packets per hour. Peak throughput should be scaled based on the daily throughput of 200,000 per day
BB2-004	PBD Vol. 2, page 70, Sec. 13.2, "Commissioning" PBD Vol. 2, page 70, Sec. 15.6, "Business Continuity Support"	DC/DR SETUP The document describes 3 different sites for ABIS. Should we include 3 sites in the proposal? Referring to the Pre-Bid Conference, active-active setup has been mentioned. Do all sites have to be active-active?	The BioSP shall commission the ABIS in two (2) sites, namely the PSA Data Center and Disaster Recovery Site. ABIS solution in Primary Site and Disaster Recovery site will be maintained in an Active-Passive configuration. Refer to BB1-37
BB2-005	PBD Vol. 2, page 53, Sec. 12.8.2, "Integration Requirements for BioSP" PBD Vol. 2, page 38, Sec. 11.8, "Biometric Middleware"	MOSIP AND INTEGRATION System integration based on MOSIP specs is a separate tender. Does it mean that this ABIS delivery does not have to include any integration? Only the vendor's proprietary API will be exposed? If yes, does it mean that the SI (winner of the SI tender) will implement the proprietary API of the ABIS vendor?	The BioSP will be responsible for the integration of ABIS with IDMS through the APIs to be provided by PSA or its appointed party.

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		<p>OR</p> <p>Shall we implement an integration middleware based on MOSIP specs within this tender, so the delivered solution within the ABIS tenders will be MOSIP compatible?</p>	<p>The BioSP shall provide a biometric middleware which will work with a data exchange platform between ABIS and IDMS component of the PhilSys.</p> <p>MOSIP has defined an interface specification against which the ABIS has to work. The specification details are available at https://github.com/mosip/mosip-docs/wiki/ABIS-APIs</p>
BB2-006		<p>Is the BSP Registration a requirement for participating in the ABIS Bidding?</p>	<p>No, registration to Bangko Sentral ng Pilipinas (BSP) is NOT a requirement when participating in the ABIS Bidding.</p>
BB2-007	<p>PBD Vol 2, Page 45, Sec 11.19, Load Requirement</p> <p>PBD Vol 2, Page 85, Sec19.4.6, "Service Levels and Targets", Category II: ABIS Solution-Related Performance Levels, B3</p>	<p>Is there a response time requirement for ABIS in addition to the peak throughput requirement of 8500 requests per hour?</p>	<p>Yes.</p> <p>De-duplication is done on a batch basis with an expected peak throughput of 200,000 per day (i.e. <=24 hrs). The BioSP's technical proposal can indicate its expected response time to ensure that the requirements are met.</p> <p>The Response Time per De-duplication check of a batch registration request up to 200,000 records must be <= 24 hours.</p>

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		<p>Clarification on Definition for B3 on page 86 Volume 2</p> <p>“Response Time = Average elapsed time between submission of a registration request to Biometric Solution and generation of response (Success or failure of de-duplication).”</p>	<p>The Definition for B3 on page 86 of Volume 2 for Service Level on Response Time per Deduplication check is revised as follows:</p> <p>“Response Time = Average elapsed time between submission of batch registration request containing up to 200,000 records to the Biometric Solution and the generation of response (Success or failure of de-duplication).”</p>
BB2-008	8.7 Interoperability, page 22	PSA will use Modular Open Source Identity Platform (MOSIP). Should it be broadly assumed that ABIS is fully compliant with all of the design principles as specified for MOSIP. For example, does ALL record data have to be encrypted at row level, or is this restricted to biometric images and templates?	<p>The transmission of data between IDMS and ABIS should be encrypted in compliance to MOSIP specifications.</p> <p>The BioSP requirement on design principle is as stated in Vol 2 of the PBD.</p>
BB2-009	PBD Vol 2, Page 23, Sec 8.8 High level architecture	Are subjects inserted to ABIS using the Permanent PSN and does ABIS return matches also referenced by PSC? or does ABIS use a derived unique reference as the PhilID?	<p>ABIS shall maintain its own database of indexed biometric references (called the ABIS database). However, ABIS shall not store Permanent PSN or PSN tokens.</p> <p>See also PBD Vol 2, Page 34, Sec 10.6 ABIS Biometric Matcher</p>
BB2-010	PBD Vol 2, Page 20, Sec 8.4 Credentials	Is it assumed that a QR code has sufficient storage for a facial image portrait, or just the signature?	<p>This section is only for the information / understanding of the BioSP bidder. The question has no relevance on the BioSP's tender requirements. Additional information may be provided as part of the SI tender documents.</p>

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BB2-011	PBD Vol 2, Page 20, Sec 8.4 Credentials	If this is both unique and randomized, then is it assumed that there is a single point of generation and that all points of registration require online real-time response on creation of new PSN - or are these created as part of a post registration process?	This section is only for the information / understanding of the BioSP bidder. The question has no relevance on the BioSP's tender requirements. Additional information may be provided as part of the SI tender documents.
BB2-012	PBD Vol 2, Page 20, Sec 8.4 Credentials	12 digit is not so big to print. Is this not printed for reasons of privacy protection and security?	This section is only for the information / understanding of the BioSP bidder. The question has no relevance on the BioSP's tender requirements. Additional information may be provided as part of the SI tender documents.
BB2-013	PBD Vol 2, Page 42, Sec 11.6 Authentication Solution (SDKs and Integration Support)	Authentication Solution This is usually available as a service of ABIS. What is the rationale for making this a separate system? Does this really need access to the images, or is template access sufficient? Are there concerns about broadening the scope of exposure of biometric data to multiple systems?	The PhilSys is designed with the Authentication Solution to be developed by PSA or its appointed party. The BioSP is expected to provide the multi-modal SDKs to be used as part of the Authentication Solution.
BB2-014	PBD Vol 2, Page 22, Sec 8.7 Interoperability and Technology Neutrality	MOSIP expresses a preference for Staged Event Driven Architecture that is queue based and allows for loose decoupling of components. Should we assume that the interface for ABIS deduplication is asynchronous batch?	MOSIP integrates with ABIS via message queues. So, technically it can be asynchronous. That said, the current ABIS interface that MOSIP has defined is to send one individual's data at a time.
BB2-015	PBD Vol 2, Page 28, Sec 10.1 ABIS solution design principles	Document alludes to the fact that quality of biometric registration is not known, but experience from other domains shows that this often varies by region, occupation more often than should be the case by operators. Is there utility in Audit components that sit alongside ABIS solution, to provide demographic analysis of key performance indicators that pertain	There is no such utility in Audit components that sit alongside ABIS solution.

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		to quality of enrollment. Note quality centric metrics and feedback can have high impact on the operational culture of biometric registration to the benefit of the system accuracy.	
BB2-016	PBD Vol 2, Page 36, Sec 11.4 Data storage requirement	Note export formats are not the same as storage formats. Should be assumed that the specific required format is for NIST ITL-1/2011 specification. This does not seem to be referenced in standards table 4.	<p>Yes, the required Data Format for the Interchange of Biometric Information is NIST ITL-1/2011.</p> <p>Table 4 is hereby revised to include the following:</p> <p>No: 7</p> <p>Description: Data Format for the Interchange of Biometric Information</p> <p>Proposed Standard: ANSI/NIST-ITL 1-2011</p>
BB2-017	PBD Vol 2, Page 37, Sec 11.5 Logging and monitoring	Is it the responsibility of ABIS to provide formal audit responsibilities for ABIS request/responses or are these managed externally. Other than biometric transactional operations for INSERT, UPDATE or delete is there any other events that fall within the expected scope of AUDIT	<p>Yes, ABIS must log all ABIS requests received as well as ABIS responses. The ABIS system should comply at a minimum with the logs listed in Sec. 11.5 Logging and monitoring, PBD Vol 2, Page 37.</p>
BB2-018	PBD Vol 2, Page 38, Sec 11.6 Security requirements	Should it be assumed that in addition to the use on encrypted disks, or encrypted partitions, there is an additional obligation for encryption of biometric images and templates at the row level of logically stored data blobs on the database	<p>The actual individual data in PhilSys will remain in encrypted form throughout its lifecycle. All PhilSys personal identifiable information will be encrypted at rest and in transit.</p> <p>No, there is no additional obligation for encryption of biometric images and templates within ABIS.</p>

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BB2-019	PBD Vol 2,Page 38, Sec 11.8 Biometric Middleware	The key features include both Open Standard Messaging and Web Based APIS - does this imply an expectation of synchronous deduplication requests to ABIS (e.g. over REST), or does it simply mean web based protocols for sending deduplication requests that are to be queued for asynchronous processing	MOSIP integrates with ABIS via message queues. So, technically it can be asynchronous. That said, the current ABIS interface that MOSIP has defined is to send one individual's data at a time.
BB2-020	PBD Vol 2,Page 39, Sec 11.9 Multimodal SDK	Can you provide indication of the maximum search set size for 1:Nfew matching.	Bidders are expected to propose the search range for 1:Nfew, provided that the proposed solution is compliant with the requirements, especially on accuracy and performance.
BB2-021	PBD Vol 2,Page 43, Sec 11.17 Biometric Manual Adjudication Solution	This process seems to exclude consideration of all demographic information as part of the adjudication process. However experience in other domains shows that large differences in biographic data can still occur when biometric scores are very high - e.g. for incorrect linkage at registration. Also challenging adjudication decisions, tend to rely on combined consideration of demographic and biometric data.	Demographic adjudication is not part of the scope of the requirements for the BioSP. The PhilSys is designed to have a two-stage manual verification process, with biometric adjudication, as provided by the BioSP, and demographic verification as provided by the PSA or its appointed third party.
BB2-022	PBD Vol 2,Page 44, Sec 11.18 Licensing Requirements	SDK licenses must not use hardware license key or keyed to ID (such as CPU, serial number, Ethernet ID). This could be interpreted that machine bound license keys are not permitted. If so then there is in fact no copy protection of software in practice that is not trivially bypassed. Can you confirm that this is what is meant and intended.	ABIS hardware is the responsibility of the BioSP, including its warranty. Hardware-based license is not envisioned in this contract to avoid licensing issues when the tagged hardware fails. The BioSP is responsible for the installation of the ABIS software to its supplied hardware. The BioSP can propose as part of its Technical Proposal mechanisms to ensure protection of its IP.

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			Perpetual license is required for Registration Client, Authentication and Registration Kits.
BB2-023	PBD Vol 2, Page 29, Sec 10.2 Biometric standards	But WSQ is a compression algorithm used for gray-scale fingerprint images, and is a standard for the interchange and storage of fingerprint images. It is never used for face images. Is this a typo, and face image compression should be JPG or JPG2000 ?”	Table 4 is hereby revised as follows: No: 6 Description: Face Image Compression Proposed Standard: JPEG 2000
BB2-024		Request for SOBE Extension	For the Submission and Opening of Bids and Evaluation please refer to BB1-01.
BB2-025	PBD Vol 1, Checklist No. 1 “ PhilGEPS Certificate of Registration and Membership”, Page 93	As discussed during the pre-bid conference, please confirm that the supporting documents for Annex “A” are no longer required for submission during bid opening. Only the PhilGEPS Certificate of Platinum Membership (3 pages) will suffice.	Refer to GPPB Resolution No. 26-2017.
BB2-026	PBD Vol 1, Checklist No. 2, Page 93	Please confirm that we need to submit both statements – a statement of ongoing government and private contracts of similar and not similar nature and a statement of SLCC.	Yes, the bidders are required to submit the following documents: a) Statement of all ongoing and completed government & private contracts. and b) Statement of the bidders SLCC similar to the contract in nature.
BB2-027	PBD Vol 1, Checklist No. 2, Page 93	Please confirm that only a statement of ongoing contracts is required without the need for submission of supporting documents. This is due to the non-disclosure agreements we have with our clients.	For ongoing contracts, the statement shall provide the details of items 2.a to 2.f, and 2.h, without the need of providing supporting documents. However, in completed contracts, the statement should be supported with documents, such as, the end user's acceptance or official receipt(s) or

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			sales invoice issued for the contract.
BB2-028	PBD Vol 1, Checklist No. 2, Page 93	Please also confirm that the cut – off period date for the information of all ongoing contracts will be “ as of September 30, 2019. “	Yes, the cut-off period date for the information will be September 30, 2019.
BB2-029	PBD Vol 1, Checklist No. 2, Page 93	We thank you for your clear confirmation during the pre-bid conference that the bidder should be the owner and developer of the three (3) biometric modalities to be bid – out.	Please note that the bidder must have ownership of the intellectual property for any one of the biometric modalities (face, iris, or fingerprint). Please refer to BB1-06.
BB2-030	PBD Vol 1, Checklist No. 2, Page 93	Atleast two (2) modalities should, therefore, be present in the SLCC.	Please refer to BB1-35.
BB2-031	PBD Vol 1, Checklist No. 2, Page 93	Due to the confidential nature of the project,we can ONLY provide the indicative floor amount of the SLCC. Please confirm if this is acceptable.	No, the amount of the contract should be indicated. For statement of the bidder's SLCC similar to the contract in nature, the statement should be supported with documents, such as, the end user's acceptance or official receipt(s) or sales invoice issued for the contract.
BB2-032	PBD Vol 1, Checklist No. 2, Page 93	May we seek your guidance on the formula for computing the amount of completed contract using PSA's consumer price index.	The <i>current value</i> of an amount of a contract in year Y1 is computed by multiplying the <i>amount of the contract in Y1</i> by the <i>CPI for the current period</i> divided by the <i>CPI in year Y1</i> .
BB2-033	PBD Vol 1, Page 41, Bid Data Sheet, Clause 5.ii PBD Vol 1, Page	Please confirm that foreign bidders can bid directly without the need to form a JV with a local entity as long as they can present a document from a foreign entity that reciprocal rights is extended to	Yes. For foreign bidders claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos, a certification from the relevant government office of their

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	21, Instructions to Bidders 12.i (b) (iv)	Filipino companies.	country stating that Filipinos are allowed to participate in their government procurement activities for the same item or product must be provided. Please refer to PBD Vol 1: Section 12. Documents Comprising the Bid: Eligibility and Technical Components, (b)iv, page 21.
BB2-034	PBD Vol 1, Page 42, Bid Data Sheet, Clause 8.i	As the core requirement of this tender is Biometrics, may we ask the BAC to confirm that all the following biometric software cannot be subcontracted (fingerprint, iris and face).	Please refer to BB1-14.
BB2-035	PBD Vol 1, Page 42, Instructions to Bidders, Clause 27 Domestic Preference	Domestic Preference is not applicable for this tender as there is no local company which manufactures the three (3) biometrics in the Philippines.	Please refer to PBD Vol 1, Page 32, ITB Clause 27, Domestic Preference.
BB2-036	PBD Vol 1, Page 71, Technical Specifications, "Financial Standing"	Please note that the Net Worth/ Net Assets would yield a percentage (%) and not an absolute number. Am I right, what is required is that the Net Worth amount of the latest Audited Financial Statements should be at least equal to 50% of the ABC? Please confirm that the JV partner issuing the Financial Standing may be different from the one submitting the NFCC.	Please refer to BB1-02.
BB2-037		If the JV chooses to submit a Bid Securing Declaration as bid security, is it sufficient that only the lead partner submits the Bid Securing Declaration in behalf of all the JV partners. Please confirm.	Yes, one bid security for all the JV partners is sufficient.

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BB2-038	Bid Opening Date	As our pertinent documents needs to be translated then apostilled and due to the complexity of the requirements, may we kindly request that the bid opening be extended to end of November	Please refer to BB1-01.
BB2-039	PBD Vol 2,10.6 ABIS Biometric Matcher,page 35	<p>“For unique records, the ABIS will send back the results to IDMS for PSN generation.”</p> <p>What will be the Identifier (ID) for ABIS to return matching result to IDMS?</p>	<p>The Identity Management System (IDMS) provided by PSA/System Integrator initiates an automated biometric deduplication by interfacing with the ABIS. The IDMS generates and sends a biometric 1:N matching request (containing IDMS transaction number and biometrics) to the ABIS. Each biometric deduplication is to be done against all PSN holders.</p> <p>After a successful 1:N matching and Manual Adjudication, the IDMS receives and stores ABIS outputs (IDMS transaction number, ISO biometric templates of records with no match in ABIS gallery, list of candidates and corresponding matching scores, result of the Manual Adjudication if any) from ABIS solution.</p>
BB2-040	PBD Vol 2,12.14.2 Environment Creation,page 58	<p>“Disaster Recovery Site will act as the testing environment for UAT”</p> <p>“Disaster Recovery Site will act as the testing environment for Benchmarking exercise”</p> <p>Tender has mentioned that DR site will act as environment for UAT and Benchmarking exercise.</p> <p>Required clarification whether HW and SW in DR site can be used for this purpose or vendor should provide different set of HW and SW for the UAT</p>	<p>Since "the Primary DC and DR sites will be in 1:1 configuration i.e. exact replica of each other" (p. 55, PBD Vol 2, "Sec 12.12 Setup of Data Center sites"), the HW and SW in DR site can be used as environment for UAT and Benchmarking exercise.</p> <p>Please note that in PBD Vol 2, Page 60, Sec 13.1 Benchmarking, 2nd to the last paragraph, "In the event the solution and the corresponding Bill of Materials proposed by the BioSP fails</p>

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		and Benchmark test at DR site?	to meet the benchmarking performance criteria, BioSP shall enhance/augment and supply additional components (including server, storage, networking equipment, etc.) without any additional cost to the PSA."
BB2-041	PBD Vol 2, Page 77, Sec 17 Implementation Schedule	Table 12. Implementation Schedule When should operate the existing data migration to the ABIS system based on? What is the content/template of existing data to be migrated?	The PBD did not specify any migration of current data into ABIS system. However, there is a provision on Transition and Migration of Data Center in Sec 12.13 of PBD Vol 2. The PhilSys is not expected to utilize legacy data. The envisioned migration strategy is to cover the transition to a larger data center to accommodate the expanded requirements of the PhilSys.
BB2-042	PBD Vol 2, Page 37, Sec 11.5.1 ABIS Log	Percentage of automated identification vs. manual intervention rate. It's not clear how this can be recorded by the ABIS log since ABIS responds to API calls	This is a functionality of the Manual Adjudication module.
BB2-043	PBD Vol 2, Page 37, Sec 11.5.1 ABIS Log	Above parameters should be recorded along with record information, time of access, and the operator name performing the matching. Its not clear how this can be recorded by the ABIS log since operator info & related info is not expected to be available in the ABIS API	This is a functionality of the manual Adjudication module.
BB2-044	PBD Vol 2, Page 43, Sec 11.17 Biometric Manual	"The records forwarded to the IDMS shall include record ID and biometric templates in ISO format of the registration packet"	PBD Vol 2, Page 43 Sec 11.17 Biometric Manual Adjudication Solution, 2nd paragraph is revised as

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	Adjudication Solution	There are no ISO format defined for all biometric modalities. Please change this to “applicable biometric modalities”	<p>follows:</p> <p>"xxx All records found to be unique by the ABIS 1:N deduplication shall be forwarded to the IDMS for PSN generation. The records forwarded to the IDMS shall include record ID and applicable biometric templates in ISO format of the registration packet. xxx"</p>
BB2-045	PBD Vol 2, Page 44, Sec 11.18 Licensing Requirements	<p>“License must not use hardware license key or keyed to ID (such as CPU, serial number, Ethernet ID)”</p> <p>Applicable for ABIS: Even though the ABIS vendor can issue de- duplication license as per contract requirements, the license keys are always hardware based to ensure the protection of our IP. Please revise this clause to allow hardware based license</p> <p>Also, it’s not clear if perpetual licenses are required for ABIS?</p>	<p>ABIS hardware is the responsibility of the BioSP, including its warranty. Hardware-based license is not envisioned in this contract to avoid licensing issues when the tagged hardware fails. The BioSP is responsible for the installation of the ABIS software to its supplied hardware. The BioSP can propose as part of its Technical Proposal mechanisms to ensure the protection of its IP.</p> <p>Perpetual license is required for Registration Client, Authentication and Registration Kits.</p> <p>SDK license for registration kits should be capped at 5500 numbers. These licence should be machine independent and perpetual. SDK activation would be offline and permanent and no renewal shall be required for the volumes contracted. The activation of the license would be done in phased manner with the approval of PSA. For ABIS license the volumes are given in separate</p>

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			clarification at Sr No
BB2-046	PBD Vol 2, Page 45, Sec 11.18 Licensing Requirements	<p>“BioSP SDK license, however, shall be contracted for a specified authentication volume”</p> <p>It’s not clear how SDK will be contracted for authentication volume...what is the contract vehicle, price to by additional volumes of authentication performed by SDK</p>	<p>The estimated authentication volumes are 2 million transactions per month. Out of these 50 percent of the transaction are estimated to be of e-KYC transactions. There will be no separate contract for SDK supply for authentication. The proposal should include the SDK price also.</p>
BB2-047	PBD Vol 2, Page 45, Sec 11.18 Load Requirements	<p>“It may be noted that update record shall not be treated as a new record for the purpose of ABIS licensing. The old record will not be deleted from the gallery and ABIS database. The ABIS should undertake the 1:N deduplication from the ABIS Gallery including the deactivated records”</p> <p>Since update records are added to existing records, it will be hard to size the hardware/system without putting a cap on approximate record updates over the course of the contract (Adding new updates increases the CPU/Memory/Storage requirements for the same gallery size). We request PSA to specify probably % updates to be incorporated as part of the sizing</p>	<p>Refer to Section 11.19 the update percentage is indicated to be 25% of the registration volumes</p>
BB2-048	PBD Vol 2, Page 48, Sec 12.1 Overview of scope of work Table 6. Overview of BioSP’s Scope of Work	<p>“Setup of ABIS at Data Center Sites and Migration to New Data Centers”</p> <p>To better plan the support effort, please specify maximum number of data center migrations are envisioned during the course of the contract</p>	<p>Only one migration is envisaged including DC and DR.</p>

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BB2-049	PBD Vol 2, Page 53, Sec 12.8.2 Integration Requirements for BioSP	<p>“Integration of Manual Adjudication Module of ABIS with IDMS”</p> <p>For the display of raw biometric images in the manual adjudication module, please confirm if raw biometric images can be retrieved from IDMS or to be stored in ABIS database.</p>	Refer to PBD Vol 2 Section 11.17 page 43 last paragraph.
BB2-050	PBD Vol 2, Page 86, Category-II: ABIS Solution-Related Performance Levels B4 Uptime	<p>B4 Uptime</p> <p>Please change the formula to indicate “Unscheduled Downtime” since any “scheduled downtime” should not be considered towards uptime calculation</p>	<p>Uptime definition in PBD Vol 2, Page 86, Category-II: ABIS Solution- Related Performance Levels B4 Uptime, is revised as follows:</p> <p>"Uptime = {1 - [(Unscheduled Downtime) / (Total Time – Maintenance Time)]}"</p>
BB2-051	PBD Vol 2, Page 71, Sec 15.7 Warranty and Annual Technical Support (ATS)	<p>“Warranty and ATS shall cover the entire duration of the contract”</p> <p>Is it ok to provide a yearly warranty if the hardware vendor does not provide 5 year warranty?</p>	Yes, as long as the Warranty and ATS shall cover the entire duration of the contract.
BB2-052	PBD Vol 2, Page 72, Sec 16.4 Transition and Migration to new Data Center sites	<p>“The BioSP shall provide an overall strategy and approach for migration of sites (including data) as part of their technical scope”</p> <p>Who will be responsible for extracting the data from the legacy system? Data collected from the registration kits?</p>	<p>The PhilSys is not expected to utilize legacy data. The envisioned migration strategy is to cover the transition to a larger data center to accommodate the expanded requirements of the PhilSys.</p> <p>The data collected through the Registration Kits shall be forwarded by the IDMS as registration packets to the ABIS.</p> <p>The data of the registration Kits is not the responsibility of ABIS and is not part of migration.</p>
BB2-053	PBD Vol 2, Page 69, Sec 15.5 Help	<p>“24/7 on all working days”</p> <p>Will the system be accessible outside the</p>	BioSP is expected to provide L1 and L2 support within the Philippines. L3

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	desk Support	Philippines?	<p>support can be provided offsite from outside the Philippines.</p> <p>For avoidance of doubt, no biometric information should be shared outside the Philippines.</p> <p>Only the Logs related to L3 incident will allowed to be transferred outside the Philippines.</p>
BB2-054	PBD Vol 2, Page 93, Checklist of Eligibility Requirement Item No.2	<p>For the computation of the Value of Outstanding Contracts, please clarify the following: Do we just indicate: Option 1 - Services not yet rendered or Option 2 - Services not yet rendered PLUS services already rendered but not yet paid.</p>	Value of Outstanding Contracts refers to value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract for this Project.
BB2-055	PBD Vol 2, Page 93, Checklist of Eligibility Requirement Item No.2	For JV projects, do we only apply the proportionate share of the ownership structure of the participating bidder?	<p>No, we do not consider the proportionate share of the ownership structure of the participating bidder. For ongoing contracts involving JV projects, we will consider the total amount of the JV project.</p>
BB2-056		May we request PSA to disclose the consideration used to compute project's ABC?	Refer to BB1-12.
BB2-057	PBD Vol 2, Page 77, Sec 17 Implementation Schedule	<p>As indicated in the document, delivery of goods is required w/in 90 days upon receipt of the NTP. Based on the schedule presented, NTP will be issued Nov 29 and Delivery of ABIS is schedule last week of Feb. This is w/in 90 days. However, Integration of ABIS to Philsys is scheduled December 2019 to April 2020</p>	<p>Delivery, installation and commissioning of ABIS Goods must be within ninety (90) calendar days upon issuance of the Notice to Proceed (T).</p> <p>Supply and customization/development of biometric solution including integration must be within (T + 120</p>

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		which is beyond 90 days from NTP. IF this is required, then ABIS delivery should be after this. 90 days condition should be revised to reflect/include man-days to do ABIS integration to Philsys.	days) as per Table 12. Implementation Schedule, page 77 of PBD Vol 2, Sec 17.
BB2-058		It was mentioned during the Sensitization for SI conference held last 12 July 2019 that MOSIP have evaluated 2 ABIS provider. May we ask who the two ABIS provider were?	This is not relevant and is not part of ABIS Tender.
BB2-059	PBD Vol 2, Page 77, Sec 17 Implementation Schedule	Delivery, installation and commissioning of sandbox of 1 Million Biometric Records must be sixty (60) days upon issuance of the Notice to Proceed. Does the 1 biometric record refers to 1 Fingerprint / Iris / Face or 1 Person?	Each biometric record refers to 1 person, which will include a set of fingerprints, iris scans and facial photo.
BB2-060	PBD Vol 2, Page 26, Sec 9. Demand Capacity	Size of Photo /facial image?	Refer to BB1-18
BB2-061	PBD Vol 2, Page 26, Sec 9. Demand Capacity	Acceptable image size (DPI) of Fingerprint image? Will the system keep segmented photo only?	Refer to BB1-18
BB2-062	PBD Vol 2, Page 26, Sec 9. Demand Capacity	Size of Iris image?	Refer to BB1-18
BB2-063	PBD Vol 2, Page 18, Data Collected, Sec 8.2	Are we just going to get the existing data from a DB and read it through ABIS?	ABIS will interface with the IDMS through the APIs to be provided by PSA or its appointed party to obtain the Registration Packet containing the biometric images and templates. Registration Packets will be identified by an IDMS Transaction Number.
BB2-064	PBD Vol 2, Page 18, Data	What type of file will be sent to ABIS (image, template, etc.)?	Refer to BB2-63

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	Collected, Sec 8.2		
BB2-065	PBD Vol 2, Page 21, Sec 8.6 Data protection, privacy and cybersecurity	Will ABIS receive an encrypted or decrypted file from registration?	Registration Packets received will be encrypted. PSA or its appointed party will provide specifications on encryption to the Winning Bidder
BB2-066	PBD Vol 2, Page 22, Sec 8.7 Interoperability and technology neutrality	Do they have preferred encryption grade level for ABIS data?	Refer to BB2-065
BB2-067	PBD Vol 2, Page 22, Sec 8.7 Interoperability and technology neutrality	What are the existing PSA systems that will be interoperating with ABIS. What are the descriptions of these?	The ABIS will be interoperating with the IDMS, which will be developed by PSA or its appointed party, through the APIs to be provided.
BB2-068	PBD Vol 2, Page 24, Sec 8.9 Architecture Principles	How do you expect handling of downtime when AFIS is down or doesn't have connectivity?	BioSP is required to comply with the Service Levels provided in the PBD, including for Uptime.
BB2-069	PBD Vol 2, Page 45, Sec 11.19, Load Requirement	How many projected transactions per second?	The BioSP is expected to design its proposed solution to satisfy the requirements, including for peak load processing of 200,000 per day (i.e. <=24 hours)
BB2-070		Will they require having an ABIS with 1 built in requirements or will they allow separate identification engines?	The ABIS solution should be an integrated solution with one engine for all modalities. Separate engines within ABIS are not envisaged are not acceptable.
BB2-071	PBD Vol 2, Page 54, Sec 12.11 Conditions for re-	What is the minimal downtime acceptable re-templization?	Conditions for re-templization is as defined in Section 12.11 of Vol 2 of the PBD. The BioSP, in its report to

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	templization		present a case for re-templization, should include its proposal for system downtime during re-templization.
BB2-072	PBD Vol 2, Page 45, Sec 11.19, Load Requirement	Are tagged as deceased be removed in the minutiae gallery?	Data subjects tagged as "deceased" will not be removed from the gallery. They will be marked as "inactive"
BB2-073	PBD Vol 2, Page 29, Sec 10.2 Biometric standards	Face image compression proposed standard is WSQ.... what specific version of WSQ will be considered for FACE image?	Refer to BB2-023
BB2-074	PBD Vol 2, Page 36, Sec 11.3 Verification	Verification of record is by Fingerprint and Iris ID only. Face will not be used for verification?	For de-duplication, only fingerprint and Irises are considered. For verification or authentication, all three modalities are considered.
BB2-075	PBD Vol 2, Page 39, Sec 11.9 Multimodal SDK	Under multimodal SDK, BioSP are required to provide specific requirements like segmentation, Quality checks, compression etc. All of these requirements are done during registration/enrolment process and most of it can only be roled via hardware SDK?	The BioSP is required to provide the multimodal SDKs for the Registration Kits.
BB2-076	PBD Vol 2, Page 51, Sec 12.4 Requirements Analysis	Will PSA provide the monitor and responsible for the connection between Primary Site and DR Site?	PSA or its appointed party will be responsible for connections between the Primary and Disaster Recovery Data Centers
BB2-077	PBD Vol 2, Page 63, Sec 14.7 Deployment of Resources	Resources will only manage delivery of ABIS and will not be responsible for other modules or part of PhilSys implementation?	Key Resources will be responsible to deliver the requirements of the BioSP, including identified areas for support on integration with other components of the PhilSys.
BB2-078	PBD Vol 2, Technical	Based on implementing guidelines of RA 9184, requirements of manpower	The requirements on key resources is specified in page 61, Sec. 14

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	Specifications, Sec 14.8	qualifications cannot be applied to delivery of goods type of procurement.	Manpower Requirement of PBD Volume 2.
BB2-079	PBD Vol 2, Page 69, Sec 15.4 Information Security	The BioSP shall be responsible for implementing measures to ensure the overall security of the biometric solution. Provider should only response scope under ABIS implementation. SI, MOSIP implementor and Registration Kit provider should be responsible for each respective scope of deliverables?	The BioSP is responsible for the overall security of the biometric solution. Details are provided under Sec 15.4.2 of PBD Vol 2.
BB2-080	PBD Vol 1, Page 20, Sec 12 Documents Comprising the Bid	Under Eligibility Requirements, may we request that the philgep's certificate of Platinum Membership be submitted during the post qualification instead while the Annexes of the certificate be included in the bid proposal/submission?	Refer to GPPB Resolution No. 26-2017.
BB2-081	PBD Vol 1, Page 43, Bid Data Sheet, Clause 21	Given the lead time constraints in securing consularized documents for foreign bidder/partner and securing Philgep's certificate, may we request that the bid submission be moved to November 19, 2019?	Refer to BB1-01
BB2-082	PBD Vol 1, Page 68, Section VI. Schedule of Requirements vs. PBD Vol 2, Page 83, Sec 19.4.6 Service Levels and Targets, Category-I:	Delivery, installation and commissioning of ABIS hardware/software solution must be within ninety (90) calendar days upon issuance of the Notice to Proceed. vs. A4 Delivery, installation, integration, testing of all components / equipment required for the system, to the satisfaction of the PSA,	Delivery, installation, and commissioning of ABIS Hardware and Software Components must be within ninety days (90) calendar days upon issuance of Notice to Proceed. Installation and Commissioning of Biometric Solution in production environment at Primary and Disaster Recovery sites is Within 4 months from the date of release of Notice to Proceed.

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	Implementation Phase	<p>Within 3 months from the date of release of Notice to Proceed</p> <p>Question: Is software delivery, installation and commissioning included within 90 days / 3 months?</p>	<p>Hence, PBD Vol 1, Page 68, Section VI. Schedule of Requirements 2nd paragraph of column on "Delivered, Weeks/Month" is revised as follows:</p> <p>"xxx Delivery, installation and commissioning of ABIS hardware/software components must be within ninety (90) calendar days upon issuance of the Notice to Proceed. xxx"</p>
BB2-083	PBD Vol 2, Page 83, Sec 19.4.6 Service Levels and Targets, Category-I: Implementation Phase	<p>A6 Completion of acceptance testing and Go-Live of the ABIS solution. Within 5.25 months from the date of release of Notice to Proceed</p> <p>Question: After server delivery (3 months), system setup, performance tuning, acceptance (FAT, SIT, UAT, VAPT) tests and benchmarking will take at least another 3-4 months. Can the ABIS the Go-live to be at least eight (8) months from NTP?</p>	Refer to PBD Vol. 2: Table 12. Implementation Schedule, page 77.
BB2-084	PBD Vol 1, Page 43, Bid Data Sheet, Clause 21	<p>The deadline for submission of bids is 29 October 2019 not later than 1:30PM.</p> <p>Question: Only 3 weeks is given to submit a bid of medium-high complexity. Can PSA extend the submission to 15th Nov?</p>	Refer to BB1-01
BB2-085	PBD Vol 2, Page 29, Sec 10.2 Biometric standards	<p>6 Face Image Compression: WSQ</p> <p>Question: ISO19794/5 face image compression should be achieved with JPEG2000. Please confirm if WSQ is a</p>	Refer to BB2-023.

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		PSA-specific requirement.	
BB2-086	PBD Vol 2, Page 39, Sec 11.9 Multimodal SDK	Question: The SDKs (Fingerprint, Iris and Face Photo) could have been already supplied under the Registration Kits for capturing & processing. Is it still necessary for the bidder to provide the SDKs?	BioSP is required to provide SDKs for the following: (i) Registration Kits, (ii) IDMS (Registration Client) for quality check and (iii) Authentication
BB2-087	PBD Vol 2, Page 36, Sec 11.3 Verification PBD Vol 2, Page 42, Sec 11.16 Authentication Solution (SDKs and Integration Support)	Question: Please clarify if 1:1 verification is performed in ABIS or an external service to be implemented by PSA or its appointed party?	The ABIS functional requirements include the 1:1 verify function to cater for biometric updates. The Authentication solution for the PhilSys will be developed by PSA or its appointed party. The BioSP shall provide the multi-modal SDKs to support the Authentication solution.
BB2-088	PBD Vol 2, Page 43, Sec 11.17 Biometric Manual Adjudication Solution	The Manual Adjudication Module should be able to fetch the details regarding subjects from the ABIS Database, and after 1:N matching, display the results to the adjudicating officer(s) for their evaluation. Question: Can we clarify that ABIS will store its own set of biometric images for adjudication needs.	"The ABIS shall maintain its own database of indexed biometric references (called the ABIS database). This ABIS database is separate from PhilSys database that is outside of ABIS and not accessible to ABIS." Please refer to PBD Vol 2, Page 34, Sec 10.6 ABIS Biometric Matcher.
BB2-089	PBD Vol 2, Page 44, Sec 11.18 Licensing Requirements	ABIS/SDK license must not use hardware license key or keyed to ID (such as CPU, serial number, Ethernet ID). Question: Can PSA consider removing this requirements as SDK supplier would have no means to protect their IP & Copyrights of the product?	Refer to BB2-045

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BB2-090	PBD Vol 2, Page 45, Sec 11.19 Load Requirement	It may be noted that update record shall not be treated as a new record for the purpose of ABIS licensing. The old record will not be deleted from the gallery and ABIS database. Question: Please clarify how many last copies of the old record should be kept in the system?	Old record will not be deleted, but will be marked as "inactive". Refer to BB2-01 for sizing requirements on updates.
BB2-091	PBD Vol 2, Page 45, Sec 11.19 Load Requirement	Deaths will be recorded and the ABIS gallery record will be marked as inactive (not updatable anymore). Question: Please clarify if inactive records will participate in the 1:N process?	Inactive records should be included in 1:N deduplication process
BB2-092	PBD Vol 2, Page 34, Sec 10.5 Biometric Components	Figure 4 indicates ABIS system only supports Fingerprint & Iris images. Question: Please clarify if ABIS database only stores Iris & fingerprint templates and that ABIS system only perform matching for Iris & fingerprints?	ABIS will only perform 1:N deduplication using the fingerprint and iris modalities.
BB2-093	PBD Vol 2, Page 58, Sec 13 Benchmarking, Acceptance and Go-Live	Tender specified that DR environment as benchmarking site which involves testing with simulated data sets of 10M and 25M respectively. Question: What is PSA requirement on the data preparation process?	The BioSP in consultation with PSA or its appointed party shall prepare benchmarking test cases and obtain approval on the test cases from the PSA, create test data from base data provided by PSA, and provide the tools (load generator), scripts for etc. for benchmarking. More details are specified in Sec 13. Benchmarking, Acceptance and Go-Live of PBD Vol 2.
BB2-094	PBD Vol 2, Page 58, Sec 12.14.2 Environment Creation	Question: Please clarify the sandbox requirements and purpose? Question: Will PSA provide the 1 million	The PSA shall use the sandbox for 1:N deduplication of pilot registration records. The sandbox shall be hosted at PSA Data Center.

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		<p>data records?</p> <p>Question: Where will the sandbox be hosted?</p>	
BB2-095	PBD Vol 2, Page 87, Category III: Operations	<p>C1 Resource Availability</p> <p>Question: Please clarify how will the resource availability be measured?</p>	<p>Resource Availability will be measured based on the required Deployment Schedule in Section 14 of Vol 2 of the PBD. Metric for Service Levels is as indicated under Section 19 of Vol 2 of the PBD.</p> <p>C1 measurement: No. of shift days where resource is present or attendance / total no of shift days per deployment schedule</p>
BB2-096	PBD Vol 2, Page 30, Sec 10.4 System Architecture Requirements	<p>Scalability: Dynamic or rule-based ability to scale the system within servers, across servers without inherent bottlenecks and code changes, and ability to scale at data centers.</p> <p>Question: Automated rule-based ability to scale with an on premise hosting infrastructure will be an extremely complex and expensive solution. Will PSA consider removing this requirement?</p>	<p>No. The scalability requirement remains. The scaling up of the Hardware like servers without downtime is a must functionality of ABIS. And similarly scaling up of ABIS without downtime is also a must feature .</p>
BB2-097	PBD Vol 1, Page 82, Bidding Forms	<p>Bidder must have an Automated Biometric Identification System (ABIS) installations with at least forty million (40) million records of at least one of the three (3) biometric modalities in the database. This should be proven by related reference letters/document.</p> <p>Section VIII. Bidding Forms Bidder must have a minimum of Two (2) Automated Biometric Identification System (ABIS) installations with at least</p>	<p>PBD Vol 1, Page 82, Sec 2.a Project References is revised as follows:</p> <p>"Bidder must provide ABIS related project references from at least two (2) completed projects."</p> <p>PBD Vol 1, Page 82, Sec 2.b</p>

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		<p>20 million records of at least one of the three biometric modalities in the database.</p> <p>Question: Can we clarify whether a bidder's compliance can be either (1) one ABIS installation with at least 40 Million records (as stated in Page 71 of the Bid Documents) OR (2) minimum of two (2) ABIS installations with at least 20Million records (as stated in Page 83 of the Bid documents)?</p>	<p>Biometrics Market Experience is revised as follows:</p> <p>"Bidder must be: (1) an Original Design Manufacturer of the ABIS, where Original Design Manufacturer is defined as having ownership of the Intellectual Property for ANY (face, iris or fingerprint) Biometric Solution; and (2) in the biometrics market for at least ten (10) years in order to ensure that only well-proven and matured technology will be supplied. This should be proven by related company documents."</p> <p>PBD Vol 1, Page 83, Sec 2.c ABIS Installations is revised as follows:</p> <p>"Bidder must have an Automated Biometric Identification System (ABIS) installation with at least forty million (40) million records of at least one of the three (3) biometric modalities in the database."</p>
BB2-098	PBD Vol 1, Page 66, Special Conditions of Contract 11.3	iii. Ten percent (10%) of the Contract Price shall be paid to the Supplier upon Successful PhilSys Go Live within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and	<p>ABIS Go Live means that the ABIS solution is in production mode and is ready to receive registration packets from IDMS, run 1:N Biometric Matching, and return results to IDMS.</p> <p>PhilSys Go Live shall mean that the</p>

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		<p>Documents.</p> <p>Question 1: Can we clarify what do PSA mean by "Philsys Go Live"?</p> <p>Question 2: When will Philsys Go Live?</p> <p>Question 3: When will this 10% of contract price be paid if there is a delay in Philsys Go Live by PSA?</p>	<p>IDMS and ABIS solutions are in production mode and are ready to process registrations, generate PSNs, print PhilIDs and launch of authentication services. This signals the start of Mass Registration. PhilSys Go Live is expected to be launched in Q3 2020.</p>
BB2-099	PBD Vol 1, Page 66, Special Conditions of Contract 11.3	<p>c) On Acceptance: The remaining twenty percent (20%) of the Contract Price shall be paid upon successful installation and migration of ABIS at the permanent Data Center and DR site. within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by PSA's authorized representative.</p> <p>Question: Can we clarify, the BioSP will first install the ABIS at a temporary DC&DR site provide by PSA? There is a requirement for migration to a permanent DC and DR site;</p> <p>Question 1: Can PSA provide the timeline for the permanent DR & DC sites be ready for installation & migration?</p> <p>Question 2: How will the 20% of contract price be paid if there is a delay in providing Permanent Data Center and DR Site by PSA?</p>	<p>BioSP will be informed by the PSA on the location of the Data Centers for the implementation of the Biometric Solution. PSA will inform the BioSP on migration to the permanent DC/DR.</p>
BB2-100	PBD Vol 1, Page 81, Compliance Form Technical Specification	<p>Question: Under this section, it is stated Bidder shall provide 3 parts of document, starting with:</p> <p>1. Proposed ABIS Customization - specific brochures/document on the</p>	<p>The Bidders are required to provide the following documents:</p> <ol style="list-style-type: none"> 1. Eligibility Documents 2. Compliance Statement to Technical

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	Requirements - Bidder	<p>modalities & modality customization 2. Bidder Experience 3. Financial Standing</p> <p>Can we clarify if the ITB submission materials includes a Technical Proposal at this point?</p>	<p>Specifications (a) Proposed ABIS customization (b) Bidder Experience (c) Technical Proposal, addressing the requirements of Vol 2</p> <p>Note: Financial Standing has been removed via BB1-02</p>
BB2-101	PBD Vol 2, Page 29, Sec 10.i Connectivity with IDMS	<p>i. Connectivity with IDMS (ID Management System): The ABIS shall be able to process the data delivered by IDMS and should be able to return ABIS results to IDMS.</p> <p>Question : Can we clarify if the system 'IDMS' is referring to MOSIP Platform?</p>	<p>Yes, the IDMS is referring to one of the modules of the MOSIP.</p> <p>The IDMS refers to the core ID Management System to be developed for the PhilSys. The IDMS will take reference from the modules provided in the MOSIP platform which will be configured and/or customized to fit the overall requirements of the PhilSys.</p>
BB2-102	PBD Vol 2, Page 43, Sec 11.17 Biometric Manual Adjudication Solution	<p>Figure 6. Scope of Development Work for Manual Adjudication and Manual Verification</p> <p>Question: Please clarify what is the purpose of "Manual Verification" and where will be the module placed?</p>	<p>The PhilSys is designed with a two-stage adjudication process. The Manual Adjudication of the Biometric deduplication results will be implemented using the Manual Adjudication module provided by the BioSP. The Manual Verification for the Demographic information assessment will be implemented by the PSA or its appointed party.</p>
BB2-103	PBD Vol 2, Page 36, Sec 11.3 Verification	<p>Verify is a special case of Identify mentioned above where only 1:1 comparison is performed. The ABIS is sent a query consisting of a fingerprint and iris images and the record ID of the enrolment record to which the query is to be compared. A scaled comparison score and a "match/non-match" decision is always returned to IDMS. Fingerprint</p>	<p>Input fingerprint data will be through the Registration Kits, which will be installed with the BioSP's SDK. The BioSP's proposed solution should allow for interoperability of the extracted data from the Registration Kits and the ABIS, without use of proprietary extended data.</p>

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		<p>verification utilizing 19794-2-compliant templates will be done without use of proprietary extended data.</p> <p>Question: Please clarify if the input fingerprint data is in images or fingerprint minutiae (19794-2-compliant templates)?</p>	
BB2-104	PBD Vol 2, Page 58, Sec 12.14.2 Environment Creation	<p>Staging environment should be created in Primary Site as well as Disaster Recovery Site</p> <p>Question: Please clarify what is the expected level of capacity similitude between the staging & production environment ? For example , is it a 1:1 comparison or reduced capacity?</p> <p>Question: Is the Benchmarking done on the DR Site's staging environment?</p>	<p>(i) The bidder shall estimate the environment required for staging</p> <p>(ii) Benchmarking will be done in the DR site</p>
BB2-105	PBD Vol 2, Page 85, Sec 19 Category-II: ABIS Solution-Related Performance Levels	<p>Question: Please clarify how will PSA determine the quality of the database? E.g. NFIQ 1-3 for finger, ICAO compliant for face and ISO/IEC 29794-6 compliant for iris.</p>	<p>The biometric data of residents is captured on the basis of threshold score that will be set as per the recommendation and best practices provided by the bidder. Exceptions or forced capture will be flagged and the bidder will know about such forced capture or exceptions.</p> <p>Biometric standards for PhilSys are set forth in Table 4, page 29 of PBD Vol 2.</p>
BB2-106	PBD Vol 2, Page 29, Sec 10. Biometric Solution	<p>10.3 Interoperability Standards The ABIS and the Multimodal SDKs for PhilSys must generate standard, interoperable ISO format biometric templates. The fingerprint encoding algorithm proposed must have participated to at least one recent MINEX</p>	<p>Current requirement is for participation, without explicitly requiring that the bidder has "passed" the MINEX test.</p> <p>Refer to BB1-17.</p>

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		<p>benchmark organized by the US NIST (National Institute of Standard and Technology). This must be substantiated by an official report as part of the BioSP's Technical Proposal, and will be subject to evaluation.</p> <p>Question: To support the compliance to requirement, must the bidder submit the latest MINEX III report card and show they PASS the MINEX test?</p>	
BB2-107	PBD Vol 1, Page 71, Technical Specifications Experience	<p>Bidder must be an Original Design Manufacturer of the ABIS and must be on the biometrics market for at least ten (10) years in order to ensure that only well-proven and matured technology will be supplied. This should be proven by related company documents.</p> <p>Question: Can we clarify that the above mentioned statement refer to the bidder can be either the prime or must be the joint-venture bidder with a local company? The original design manufacturer refer to owning the intellectual property (IPs) for all 3 biometrics technology {Fingerprint, Facial & Iris}?</p>	<p>For Joint Venture bidders, at least one member of the JV must comply with the Bidder Experience requirement.</p> <p>Refer to BB1-06 for definition of ODM.</p>
BB2-108	PBD Vol 2, Page 39, Sec 11.9 Multimodal SDK	<p>The SDK is a set of libraries that provide following functions.</p> <p>Questions: Can we clarify that what are the target OS platform and bits required to these SDK? What is the programming language and interface required to these SDK? (Java-based? C-based? etc)</p>	<p>The following PhilSys components, which are not part of this bidding, are installed with the following operating systems</p> <ul style="list-style-type: none"> - Registration Kits: Windows 10 Professional (64 bit) - Authentication SDK should be compatible with Linux (RHEL) and Linux (Ubuntu)

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			<p>- IDMS: Linux-based, with APIs based on Java\</p> <p>The IDMS uses MOSIP which was developed in Java 8. (Version 1.8x). Thus, the SDK to be supplied should have an interface in Java 8.</p>
BB2-109	PBD Vol 2, Page 94, Sec 21. Appendix B - Minimum Technical Requirement Specifications	<p>PSA to provide Data Center specifications as a Supplemental Bid Bulletin</p> <p>Question: Can we clarify when will PSA provide the supplemental Bid Bulletin?</p>	Information will be provided on the last bid bulletin prior to opening of bids.
BB2-110	PBD Vol 1, Page 71, Technical Specifications Experience	<p>Bidder must have an Automated Biometric Identification System (ABIS) installations with at least forty (40) million records of at least one of the three (3) biometric modalities in the database. This should be proven by related reference letters/documents.</p> <p>Question: PSA require the bidder to provide a biometric system that can handle more than 100M data record; Will PSA require the bidder to have one proven reference in implementing a large scale biometric database (either fingerprint, face or iris) which is capable to handle 100 million or more records? This should be proven by related reference letter.</p>	Bidder experience of 40 million records is deemed sufficient to demonstrate the ability to implement the biometric solution at scale.
BB2-111	PBD Vol 2, Page 69, Sec 15.4 Information	The BioSP's proposed ABIS must be ISO 27001 certification ready. Changes and amendments to ABIS to achieve ISO	Refer to BB1-34

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	Security, 5.4.1 ISO certification readiness for Information Security Management.	27001 compliance will be the responsibility of the ABIS supplier at no additional cost to the PSA. Question: Please clarify ISO 27001 certification ready? ABIS supplier mainly provide the biometric core for authentication and verification purpose only. 27001 refers to the standard for assessing the security of information and IT environment. The standard seems more relevant to the overall system integration tender which PSA plan to issue soon. Propose PSA to consider removing the ISO27001 in the ABIS tender.	
BB2-112	PBD Vol 2, Page 24, Sec 8.9 Architecture Principles The architecture principles adopted for the PhilSys	Scalability & Modularity: The system should be scalable in-line with the rollout plan for all IT Infrastructure. Question: Since PSA require a system should be scalable in line with the rollout plan, will PSA accept proposal from the bidder e.g. Hardware base biometric matching leveraging on the COTS hardware architecture which can be configured much more effectively to meet the evolving needs for larger databases while maintaining or increasing system throughput.	The BioSP is free to propose its biometric solution, provided that it satisfies the requirements, including for system performance, accuracy and throughput.
BB2-113	PBD Vol 2, Page 24, Sec 8.9 Architecture Principles Security by Design	Use of Hardware Security Module (HSM) Technologies, Public Key Infrastructure (PKI) based encryption, hashing algorithms, strong physical security, access management, stringent audits, non-repudiation, 24x7 Network Operations Center (NOC) and Security Operations Center (SOC) monitoring, data encryption should be strongly enforced to make system robust and secure from any	The PSA or its appointed party will deploy HSM technology as part of the overall security design for the PhilSys. The PSA will specify its HSM requirement and share with the BioSP during implementation

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		<p>data thefts</p> <p>Question: can PSA confirm whether there is an HSM already deployed at customer datacenter that can be re-used by the BSP proposed solution?</p>	
BB2-114	PBD Vol 2, Page 24, Sec 8.9 Architecture Principles Security by Design	Please confirm that this NOC/ SOC will be the scope of The PSA or its appointed party.	The NOC and SOC for the PhilSys will be the responsibility of the PSA or its appointed party.
BB2-115	PBD Vol 2, Page 25, Sec 8.9 Architecture Principles, Use of Automation	<p>Please confirm that this will be the scope of The PSA or its appointed party.</p> <ul style="list-style-type: none"> - Will PSA or its appointed party provide its own Central Monitoring tool? - If any, what other Automation Tool will be provided by PSA? (i.e. Patch Deployment Tool, etc.) 	Yes. Use of Automation is part of the design principles for the PhilSys. This will be provided by PSA or its appointed party. Details relating to the automation tools will be shared with the BioSP during implementation.
BB2-116	PBD Vol 2, Page 29, Sec 10.2 Biometrics Standards, 6, Face Image Compression WSQ	Kindly confirm, that this refers to Fingerprint Image Compression, since Wavelet Scalar Quantization algorithm (WSQ) is a compression algorithm used for gray-scale fingerprint images.	Refer to BB2-23 above
BB2-117	PBD Vol 2, Page 30, Sec 10.4 System Architecture Requirements, Security	<ul style="list-style-type: none"> - Clarify specified "external security components" - Is there a Retention Policy (requirement) for Audit Logs? - What is the requirement for Online Availability of Audit Logs? What Audit Logs can be stored Offline? 	<p>Yes. Audit logs have to be retained permanently and should not be deleted. The online availability period of logs can be considered to be two years.</p> <p>The PSA will share the Retention Policy for audit logs with the BioSP during implementation.</p>

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BB2-118	PBD Vol 2, Page 31, Sec 10.4 System Architecture Requirements, Interoperability	<p>- What is the expected protocol(s) to be used by External Management Products such as Systems Management, Network Management, and other tools? (i.e. RDP? SNMP? Etc.)</p> <p>- Will these reside within the Data Center network?</p> <p>Please confirm that this External Management will be the scope of The PSA or its appointed party.</p>	<p>Yes these reside with in the data center.</p> <p>External management will be the scope of the PSA appointed party namely the Systems Integrator.</p> <p>Please refer to query no BB2 115.</p>
BB2-119	PBD Vol 2, Page 31, Sec 10.4 System Architecture Requirements, Manageability	<p>Since BioSP is expected to maintain and operate the ABIS Hardware/Network Infrastructure, will there be conditions wherein Remote Management capability will be required by PSA? Will VPN be allowed? Please enumerate</p> <p>* This is for L3 concerns and in order to adhere to SLA, there might be a need to do remote connection via VPN by L3</p>	<p>L3 support can be provided offsite from outside the Philippines. The BioSP can propose its intended approach for such arrangement. For avoidance of doubt, no biometric information should be shared outside of the data centers environment.</p>
BB2-120	PBD Vol 2, Page 31, Sec 10.4 System Architecture Requirements, Availability	<p>- Confirm that any degradation or failure outside of the ABIS infrastructure (but still contributes to the unavailability of ABIS) will not be counted against ABIS availability and should not be subject to penalty</p>	<p>Any degradation or failure outside of the ABIS infrastructure that contributes to the unavailability of ABIS will not be counted against ABIS availability and shall not be subject to penalty.</p>
BB2-121	PBD Vol 2, Page 31, Sec 10.4 System Architecture Requirements, Upgradeability	<p>Clarify "reverting to old configuration after a successful upgrade"</p>	<p>This refers to the ability to roll-back the latest upgrade for services, components, and modules. However, if there is a problem during the upgrade, the ABIS functionality should be able to revert as if the update was not applied.</p>
BB2-122	PBD Vol 2, Page 32, Sec 10.4 System	<p>Please confirm that this will be the scope of The PSA or its appointed party .</p> <p>- Confirm if Logging Tool (Centralized?)</p>	<p>The BioSP should provide a Logging Tool that is compliant under the requirements of Section 11.5 of Vol 2</p>

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	Architecture Requirements, Logging and Reporting	will be provided by PSA. - Confirm that PSA will cover the External Reporting Tool	of the PBD. PSA or its appointed party will develop the External Reporting Tool. However for ABIS reports the bidder has to provide a reporting tool to comply with the requirements of reports generation and publication.
BB2-123	PBD Vol 2, Page 33, Sec 10.4 System Architecture Requirements, Backup Restore	- What are the Backup Retention policies?	The details and provisions of PSA's backup retention policies shall be disclosed to the winning bidder.
BB2-124	PBD Vol 2, Page 69, Sec 15.5 Helpdesk Support	The BioSP shall operate a helpdesk to address technical queries 24/7 on all working days during the implementation stage. An indicative activities list is given below: Is the BioSP expected to provide a helpdesk System for ABIS-related concerns only? Please kindly confirm.	The BioSP shall provide the Helpdesk Key Resource to address concerns relating to the biometric solution delivered (i.e. ABIS, multimodal SDKs, Manual adjudication, Middleware).
BB2-125	PBD Vol 2, Page 70, Sec 15.5 Helpdesk Support	• PSA will classify the issue as Critical or Non-Critical; Does PSA have a set criteria on classifying if the issue is critical or non-critical? Or, is this something that will be set and agreed between the BioSP and PSA?	Criteria for Criticality will be agreed between PSA and the BioSP during Project Kickoff.
BB2-126	PBD Vol 2, Page 70, Sec 15.5 Helpdesk Support	• PSA shall approve the estimated resolution time; • For critical issues, the BioSP will provide a work around as soon as possible in agreed timeline; and • For all L3 issues, the BioSP will provide	Resolution times as provided in the SLA (i) L1: 120 minutes (ii) L2: 8 hours (iii) L3: 7 calendar days

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		<p>a resolution in timeline approved by the PSA.</p> <p>Can PSA provide their standard resolution times, as basis for the BioSP's tender?</p>	
BB2-127	PBD Vol 2, Page 70, Sec 15.6 Business Continuity Support	<ul style="list-style-type: none"> Primary Site and Disaster Recovery site shall be configured in 1:1 capacity mode Where will PhilSys' secondary site be? 	<p>The Primary Site is located within Metro Manila.</p> <p>The Disaster Recovery Site is located at least 50km radius from Metro Manila.</p> <p>PSA shall disclose the exact locations of the Data Centers and DR site to the winning bidder.</p>
BB2-128	PBD Vol 2, Page 70, Sec 15.6 Business Continuity Support	<ul style="list-style-type: none"> ABIS solution in Primary Site and Disaster Recovery site will be maintained Active-Passive <p>This was raised during the pre-bid and the response was active-active, contrary to what's already in the Bid Docs which is Active-Passive. Please confirm that the requirement is still Active-Passive.</p>	<p>Yes, the required configuration is Active Passive. Refer to BB1-37.</p>
BB2-129	PBD Vol 2, Page 70, Sec 15.6 Business Continuity Support	<p>(iii) BioSP shall ensure recovery/backup to ensure business continuity even in the event of disaster. The BioSP will also be responsible for resuming (including rolling back to Primary Site) the biometric solution and associated data. Thus, BioSP will be responsible for managing the recovery time objective (RTO) and recovery point objective (RPO)</p> <p>What are the RPO & RTO?</p>	<p>RPOs and RTOs proposed for the PhilSys</p> <p>RPO: 0 RTO - enrolment: 6 hours RTO - authentication: 30 mins</p>

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BB2-130	PBD Vol 1, Page 42, BDS, Sec 15.4(a)(iv) Ramp-up Phase	<p>2. On-site presence during ramp-up phase (right after ABIS go-live)</p> <p>what is the definition of ramp-up phase? Any criterion to complete the ramp-up phase?</p>	Ramp-up Phase refers to the mass registration stage of the PhilSys Implementation Plan, covering the period from Jul to Dec 2020
BB2-131	<p>PBD Vol 1, Page 54, Sec 19 Liquidated Damages</p> <p>PBD Vol 2, Page 81, Sec 19.4.4 Liquidated Damages</p>	<p>Liquidated Damages in GCC Section 19.4.4</p> <p>if bidder fail to deliver the goods under the contract within the specified delivery schedule, supplier shall pay Liquidated Damages(LD) in the amount of 1/10 of 1 percent for everyday of delay. In the SLA stated, does the penalty refer to Liquidated damages as stipulated in the IRR of RA9184?</p> <p>Does bidder need to pay both LD in GCC and Penalty for SLA performance?</p>	LDs specified under GCC refer to delays during delivery. Penalties defined under the SLA refers to the failure to meet the requirements during project implementation. Bidders will need to comply with both requirements.
BB2-132	PBD Vol 1, Page 93, Checklist of Eligibility Requirements	<p>Statement of all ongoing and completed government & private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid</p> <p>We would like to request for your official bidding forms for:</p> <ul style="list-style-type: none"> - Statement of all ongoing contracts - Statement of all completed contracts - SLCC Form - Undertaking to form a Joint Venture - Financial Bid Form 	<p>Appended in the PBD are the Official forms. The formats and details of bidding forms are stated in Section VIII. Bidding Forms except for the Undertaking to form a Joint Venture.</p> <p>The forms can be downloaded in the PSA and PhilGep's websites.</p> <p>Refer also to BB2-164.</p>
BB2-133	PBD Vol 1, Page 82, Compliance Form, 2.a Project References	Bidder to provide ABIS-related project references from at least two (2) different countries, as proof of its international competence. Please use extra sheets if	Refer to BB1-05.

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		<p>necessary.</p> <p>Please clarify what kind of evidence/supporting documents are necessary with detail example. We understand "ANSI/NIST-ITL-1, ISO/IEC certifications" are standards and may not reflect the project.</p>	
BB2-134	PBD Vol 1, Page 82, Compliance Form, 2.b Biometric Market Experience	<p>Bidder must be an Original Design Manufacturer of the ABIS and must be on the biometrics market for at least ten (10) years in order to ensure that only well-proven and matured technology will be supplied. Please use extra sheets if necessary.</p> <p>As for the supporting document of "Description and Developments", can use our own company's document? what kind of information is mandatory to submit as evidence?</p>	<p>Company's documents can suffice as evidence.</p> <p>Refer to BB2-097</p>
BB2-135	PBD Vol 1, Page 83, Compliance Form, 2.c ABIS Installations	<p>Bidder must have a minimum of Two (2) Automated Biometric Identification System (ABIS) installations with at least 20 million records of at least one of the three biometrics modalities in the database. Please use extra sheets if necessary.</p> <p>what kind of information is mandatory to submit as evidence?</p>	Refer to BB2-097
BB2-136	PBD Vol 2, Page 29, Sec.10.3 Technical Specifications, Interoperability	The ABIS and the Multimodal SDKs for PhilSys must generate standard, interoperable ISO format biometric templates. The fingerprint encoding algorithm proposed must have	Refer to BB1-17.

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	Standards	<p>participated to at least one recent MINEX benchmark organized by the US NIST (National Institute of Standard and Technology). This must be substantiated by an official report as part of the BioSP's Technical Proposal, and will be subject to evaluation.</p> <p>PSA will procure multi-modal biometrics system, however MINEX is just only for Fingerprint. Why does PSA only require MINEX?</p> <p>We suggest PSA to add requirement of other benchmark test such as FpVTE, FRVT, MBGC, MBE, and IREX conducted by NIST.</p>	
BB2-137	PBD Vol 2, Page 77, Sec 17. Implementation Schedule	<p>Delivery, installation and commissioning of sandbox of 1 Million Biometric Records must be sixty (60) days upon issuance of the Notice to Proceed</p> <p>Please define the Sandbox system. - can the HW for the Staging environment be used for this purpose? (as stated in 12.14.2)</p>	Refer to BB2-094
BB2-138	PBD Vol 2, Page 42, Sec 11.18(i) Registration Kits	<p>SDKs for Registration Kits</p> <p>May we know the peripherals of the Registration Kits</p> <ul style="list-style-type: none"> - Fingerprint Scanner - Camera - Iris Scanner - Document Scanner and other pertinent peripherals <p>SDK IP Rights are owned by BioSP, what are the control measures to be provided by PSA and its appointed partner to</p>	<p>The Registration Kits contain the following peripherals:</p> <ul style="list-style-type: none"> - Fingerprint Scanners - HD WebCam - Iris Scanner - Overhead Document Scanner and other pertinent peripherals <p>On SDK IP rights, refer to BB1-30</p>

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		ensure that there will be no IPR breach.	
BB2-139	PBD Vol 2, Page 55, Sec 12.12 Setup of Data Center sites	<p>12.12.2 DC/DR set up in the interim 12.12.3 Permanent DC/DR set up 12.13 Transition and Migration of Data Center</p> <p>May we know the locations of the Interim and Permanent sites</p>	Refer to BB2-127.
BB2-140	PBD Vol 2, Page 41, Sec 12.12 Security Requirements	<p>SDKs should be purely computational libraries, should have minimum system dependencies, and should not attempt to access any resources such as hardware, files or network</p> <p>Please clarify since the SDK should be able to integrate with Registration Kits peripherals</p>	11.12 page 41 is clarified as follows: "... should not attempt to access any resources such as hardware, files or network <u>other than those identified as part of these requirements.</u> "
BB2-141	PBD Vol 2, Page 41, Sec 11.13 User Interface Requirements	<p>SDKs should not have any user interface</p> <p>Please clarify since the SDK should be able to integrate with Registration Kits peripherals and may require UI where Quality Check would provide actional feedback (e.g., "move finger to the left") - page 136 Section 11.9.1 (ii)</p>	UI features, such as for quality checks, will be through the Registration Client software, which will be integrated with the SDKs. The SDKs should not have any user interface features.
BB2-142	PBD Vol 2, Page 71, Sec 16.1 Project Status Monitoring and Reporting	<p>All reports shall be made available online with managed access.</p> <p>Where will this be hosted?</p>	All BioSP reports shall be hosted in BioSP-managed intranet server.
BB2-143	PBD Vol 2, Page 57, Sec 12.14 Biometric Solution Hosting	<p>Workstations located in PRO</p> <p>Please confirm that PSA will provide the Network Switch/Networking requirement</p>	PSA or its appointed party will provide the network requirements for the manual adjudication workstations.

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	Requirements	for this.	
BB2-144	PBD Vol 2, Page 49, Sec 12.2 Project Planning and Initiation	<p>Project Planning and Initiation</p> <ul style="list-style-type: none"> - Will the general location of the Data Center and Disaster Recovery Site (both interim and permanent) be provided by PSA? (For necessary cost considerations) - What are the Data Center resources covered by PSA? (Cooling, Power) - Is the 5 KVA allocation per rack already for BOTH redundant PDU/power strip? - Who will handle the Network Cabling within the Data Center from the ABIS Rack to other rack/network of the PhilSys system? - Further clarify "Online Issue Register" expectation/requirement. 	<p>For the data center locations refer to BB2-127.</p> <p>PSA shall cover the cooling, power, and network cabling within the Data Center and DR Site.</p> <p>The 5 KVA allocation per rack includes PDU/power strip.</p> <p>For Online Issue Register and BioSP reports, please refer to BB2-142.</p>
BB2-145	PBD Vol 2, Page 51, Sec12.5 Solution Design	<p>Solution Design</p> <ul style="list-style-type: none"> - Will the DC/DR sites (interim) be available for site survey prior or immediately upon NTP? - When will the Permanent DC/DR sites be available for site survey? 	Refer to BB2-127.
BB2-146	PBD Vol 2, Page 52, Sec 12.7 Set up of Biometric Solution	<p>Set-up Biometric Solution</p> <p>BioSP shall only be responsible for configuring the ABIS for interfacing with systems to be provided by the PSA or its appointed party (e.g., Enterprise Management System agents, SIEM agents, etc.).</p> <p>Aside from EMS agents and SIEMs agents, what other external software will be configured for interfacing, e.g. Anti</p>	Details on external systems shall be provided by PSA when the SI provider is on board.

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		<p>Virus.</p> <p>When will the "external" systems / its details provided by PSA or its appointed party to the BioSP? In order for BioSP to prepare / plan for the interface to such systems.</p>	
BB2-147	PBD Vol 2, Page 54, Sec 12.10 Roll out of Biometric Solution – ABIS Go-Live	<p>Roll out of Biometric Solution - ABIS Go-Live</p> <ul style="list-style-type: none"> - What is the prescribed UAT period? (duration) - What is the prescribed Training period? (duration) 	<p>The BioSP shall provide the proposed test plan, including its duration, for PSA's review and approval. Similarly, the BioSP shall provide the proposed training plan, including its duration, for PSA's review and approval.</p>
BB2-148	PBD Vol 2, Page 55, Sec 12.12 Set-up of Data Center sites	<p>DC/DR set-up in the interim</p> <ul style="list-style-type: none"> - What is the expected date of completion/availability of the Primary and Disaster Recovery site in reference to the date of NTP issuance? 	Refer to BB2-127.
BB2-149	PBD Vol 2, Page 55, Sec 12.12 Set-up of Data Center sites	<p>Permanent DC/DR set-up</p> <ul style="list-style-type: none"> - What is the expected date of completion/availability of the PERMANENT Primary and Disaster Recovery sites in reference to the date of NTP issuance? Or in reference to ABIS Go-Live? - Will the location (or general area) of the PERMANENT Primary and Disaster Recovery sites be disclosed by PSA prior to submission of bid? (For cost and logistics preparation/consideration) 	Refer to BB2-127.
BB2-150	PBD Vol, Page 56, Sec 12.13	Transition and Migration of Data Center	The PSA will coordinate with the BioSP for the timing of the migration.

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	Transition and Migration of Data Center	<p>- Will the Data Center be migrated: - if PERMANENT DC/DR sites is completed and ready even without reaching yet saturation point of Interim DC/DR sites? If so, is the 3 Month notice to PSA prior to Transition/Migration expected to be observed as well?</p> <p style="text-align: center;">OR</p> <p>- ONLY if saturation point of Interim DC/DR sites is reached are the Data Centers to be migrated to the PERMANENT sites</p> <p>- Will PSA provide a more detailed assignment/division of responsibilities between BioSP and PSA for the Transition/Migration activities?</p>	<p>The BioSP shall inform the PSA with 3 months notice in the event that the interim Data Centers are reaching saturation point.</p> <p>The PSA will publish further specifications and details relating to Data Centers and Migration Strategy in the subsequent Bid Bulletin.</p>
BB2-151	PBD Vol 2, Page 56, Sec 12.14.1 Supply of Hardware	<p>Supply of Hardware</p> <p>- Can PSA confirm that the Interim or Permanent Data Center and Disaster Recovery sites (and environmentals such as cooling and power) are designed to be a Tier-3 compliant Data Center?</p> <p>- Will PSA cover the relevant network cabling to allow the ABIS system to interface with other devices or appliances of other systems in the Data Center?</p> <p>- If PSA will not cover, what will be the reference of BioSP in preparing for such cabling requirements?</p> <p>- Is the allocated power of 5 KVA per rack the TOTAL already FOR BOTH redundant PDUs or Power Strip? Or is it 5 KVA for</p>	<p>Recommendation is for the Data Centers to be Tier-3 compliant.</p> <p>Network cabling within data centers is provided by the PSA or its appointed party.</p> <p>5kva allocated power is for each power strip / PDU.</p>

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		each PDU / Power Strip?	
BB2-152	PBD Vol 2, Page 58, Sec 12.14.2 Environment Creation	<p>Environment Creation</p> <p>- Will "TESTING (only UAT)" and "BENCHMARKING" phases be conducted Concurrently with each other?</p> <p>Please confirm that the Staging environment will be used to stage fixes/patches before deployment to Production for issues resolution.</p>	<p>"Testing" and "Benchmarking" should be done sequentially, not concurrently.</p> <p>Staging environment shall be used to stage fixes/patches before deployment to Production.</p>
BB2-153	PBD Vol 2, Page 61, Sec 13.3 Acceptance	<p>Acceptance</p> <p>- What is the timing of the User Training in relation to the Overall Timeline?</p>	Refer to BB2-147
BB2-154	PBD Vol 2, Page 61, Sec 14.1 Guidelines for staffing and provisioning of manpower	<p>Guidelines for staffing and provisioning of manpower</p> <p>- Aside from the physical space, will PSA provide BioSP with sufficient resources (i.e. Tables, chairs, Internet connectivity, Power, Cooling, Ventilation, etc.) to the BioSP manpower who will work onsite at PSA?</p> <p>- For the Additional Resources on top of the minimum Resources (Key Resources) stated by PSA:</p> <ul style="list-style-type: none"> - During Project Implementation phase, no manpower specific to Data Center / Infrastructure set-up were required by PSA. - During Operations & Maintenance phase, only O&M Manager and Helpdesk Agent were required by PSA, but BioSP is also expected to Maintain and Operate 	<p>(i) PSA will provide office space and fixtures for Resources to be deployed onsite [PSA to confirm].</p> <p>(ii) BioSP shall plan the resources required to deliver and meet the requirements. The Key resources table provides the minimum requirements only. The BioSP shall consider the costs of the planned resource deployment as part of its financial proposal.</p> <p>(iii)</p> <p>(iv) PSA or its appointed party will provide an integrated helpdesk ticketing tool</p>

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		<p>the ABIS System and Infrastructure.</p> <p>For the 2 items highlighted above, is BioSP still expected to provide these required manpower to meet PSA conditions/requirement at No Additional Cost?</p> <p>- Additionally, Helpdesk Agent required by PSA is only 1 Manpower, but requires to be 24x7 onsite. Shifting for Helpdesk Agent in such a condition is expected.</p> <p>- Helpdesk Agent is required to be onsite even during Project Implementation phase, what is the exact timing of Onsite deployment required by PSA?</p> <p>- Will Helpdesk Agent use a Ticketing tool to be provided by PSA?</p>	
BB2-155	PBD Vol 2, Page 63, Sec 14.4 Removal of Personnel	<p>Removal of Personnel</p> <p>- Will there be a formal communication from PSA to BioSP if PSA deems a personnel as underperforming, undesirable, etc.?</p> <p>- Will PSA outright declare a personnel to be removed without allowing BioSP to investigate the reported issue? Or if Proper Escalation to BioSP management was not conducted?</p>	<p>Yes, PSA reserves the right to require the BioSP to remove any of its authorized representative based on the grounds listed in Section 14.4 of Vol 2 of the PBD. Requirement for removal of personnel will be communicated formally between PSA and the BioSP, which should include the stated reason for the removal of said personnel.</p>
BB2-156	PBD Vol 2, Page 66, Sec 14.9 Indicative Deployment Schedule	<p>- What is the declared RPO and RTO by PSA?</p> <p>- Will PSA allow remote accessibility of the DR site in the event that the DR site is geographically distant from the Production</p>	<p>Refer to BB2-129 for RPO and RTO requirements.</p> <p>Remote Access to DR site during disaster recovery is allowed.</p>

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		<p>site or Manila area?</p> <p>- If Remote access to DR site is not allowed during Disaster Recovery, has PSA taken into consideration the distance and travel time to the DR site in coming up with the RTO?</p>	
BB2-157	PBD Vol 2, Page 68, Sec 15.3 Infrastructure Management	<p>Infrastructure Management</p> <p>- In the Key Resources, a System Administrator was not declared by PSA, but Ongoing Maintenance expectations of PSA will require a System Administrator.</p> <p>- Is the System Administrator expected by PSA to be onsite?</p>	<p>There is no requirement for System Administrator under Key Resources. "System Administration" under Section 15.3 should not be a capitalized term. This refers to typical system administration requirements for the biometric solution.</p>
BB2-158	PBD Vol 2, Page 69, Sec 15.4.2 Responsibility for the overall security of the biometric solution	<p>Responsibility for the overall security of biometric solution</p> <p>- Will PSA be using a central Security Monitoring Tool?</p> <p>- Or is BioSP expected to provide it's own Security Monitoring/Assessment or Reporting Tool?</p> <p>- In the Key Resources, a Security/Network Security Analyst was not declared by PSA, but Ongoing Maintenance expectations of PSA will require a Security/Network Security Analyst.</p> <p>- Is the Security/Network Security Analyst expected by PSA to be onsite?</p> <p>- What is the OFFSITE Retention Period for the System Audit Logs?</p>	<p>The PhilSys overall design envisions an SOC. The BioSP shall provide its own security monitoring/assessment or reporting tool which may be integrated to the overall SOC monitoring tool.</p> <p>For support, the BioSP may decide an appropriate onsite-offsite model to meet the service levels, with approval of PSA.</p>
BB2-159	PBD Vol 2, Page 69, Sec 15.5 Help	Help desk Support	1 Helpdesk Agent is required per 8-hour shift to cover issues relating to the

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	desk Support	<ul style="list-style-type: none"> - Confirm with PSA that one (1) Helpdesk Agent in the Key Resource table pertains to one (1) Helpdesk Agent per 8-hour shift on 24x7 Helpdesk deployment. - Will PSA be deploying it's own Helpdesk/Ticketing tool which the BioSP will use? - Or is BioSP expected to provide/use its own Helpdesk/Ticketing tool onsite in PSA? 	BioSP's deliverables (ABIS, middleware, multimodal SDKs and manual adjudication module). PSA or its appointed party will develop the integrated helpdesk ticketing tool.
BB2-160	PBD Vol 2, Page 70, Sec 15.6 Business Continuity Support	<p>Business Continuity Support</p> <ul style="list-style-type: none"> - What is the declared RPO and RTO by PSA? - Will PSA allow remote accessibility of the DR site in the event that the DR site is geographically distant from the Production site or Manila area? - If Remote access to DR site is not allowed during Disaster Recovery, has PSA taken into consideration the distance and travel time to the DR site in coming up with the RTO? 	Refer to BB2-156
BB2-161	PBD Vol 2, Page 72, Sec 16.3 Change Control Management	<p>Change Control Management</p> <ul style="list-style-type: none"> - Is there an existing PSA Change Control Management process / schedule or Change Control Board that PSA will be imposing on the BioSP during the Project Implementation phase? If so, will PSA provide the details and TAT for Change Approval, etc. 	The BioSP shall propose to PSA change control procedures covering any proposed change to the scope of work and SLAs. The PSA shall review and approve the proposed change control procedures.
BB2-162	PBD Vol 1, Page 71, Technical Specifications,	Bidder must have an Automated Biometric Identification System (ABIS) installations with at least forty (40) million records of at	To update Bidder Experience form to align with revised requirements.

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	Experience	<p>least one of the three (3) biometrics modalities in the database. This should be proven by related reference letters/documents.</p> <p>in the compliance form of Biider Experience, "c. ABIS Installation" in Bidding form (page83), it says two(3) ABIS installation with 20million records are required. Please kindly clarify PSA will require one or two reference, 40mil record or 20 mil record?</p>	
BB2-163	PBD Vol 2, Page 57, Sec 12.14.1, Supply of Hardware	<p>In the Data Center, PSA shall provide the data center space, power, cooling infrastructure and a standard network switch to connect with the rest of network in the data centers.</p> <p>For the connection between DC and DR, we assume that PSA will provide the FW/UTM and VPN Tunnel in order to connect the 2 sites. Can you please confirm.</p>	PSA or its appointed party will be responsible for the connection between Data Centers
BB2-164	PBD Vol 1, Page 79, Section VIII Bidding Forms, Financial Bid Form	"For Goods Offered From Abroad" and "For Goods Offered From Within the Philippines" are the only financial bid form? Does bidder need to submit any other form which shows the summary of pricing?	Please refer to 12.3 Capacity Planning, page 50 of PBD Vol. 2.
BB2-165	PBD Vol 2, Page 84, 19.4.6 Service Levels and Targets, Implementation Phase	<p><Service Level> Completion of acceptance and Go-Live of the ABIS Solution at both Primary and Disaster Recovery sites</p> <p><Target> Within 5.25 months from the date of release of Notice to Proceed</p> <p>On time delivery of phase 6A depends on</p>	Refer to Section 20. Settlement of Disputes, PBD Volume 1, page 55.

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		<p>the readiness of PhilSys which is not responsibility of bidder. If the PhilSys is not ready or any other stopper which is not caused by bidder, the deadline should be extended by PSA accordingly and bidder should not be penalized. Please confirm this.</p>	
BB2-166	PBD Vol 1, Page 82, Compliance Form, 2.b Biometrics Market Experience	<p>Bidder must be an Original Design Manufacturer of the ABIS and must be on the biometrics market for at least ten (10) years in order to ensure that only well-proven and matured technology will be supplied. Please use extra sheets if necessary.</p> <p>Certificate of completion of the project delivered more than 10 years ago would suffice as proof?</p>	Yes, a certificate of completion of the project delivered more than 10 years ago will suffice as proof.
BB2-167	PBD Vol 1, Page 71, Section VII. Technical Specifications	<p>Net Financial Contracting Capacity (NFCC)</p> <p>PSA is requiring the Bidder to have: (1) a Net Worth divided by Net Assets of at least 50% of the ABC; and, (2) a Reported yearly Revenue of the Bidder is at least 50% of the ABC for the past 3 years. The ABC for this project is Php 1.7 Billion, hence, we note that 50% of the ABC is Php 850 Million.</p> <p>We would like to reiterate that this requirement goes over and beyond what is required in the Procurement law of the Philippines.</p>	Refer to BB1-02.
BB2-168	PBD Vol. 1, Page 71, Technical Specifications, "Experience"	<p>You are also requiring ten (10) years of existence in the biometrics market to be able to be a qualified Bidder</p> <p>We strongly believe this qualification is</p>	Refer to BB1-06.

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		unnecessary and does not in any way reflect the competence of the bidder.	
BB2-169	<p>PBD Vol 1, Page 15, Section A.5.iv of the Instruction to Bidders</p> <p>PBD Vol 1, Page 41, Bid Data Sheet</p>	<p>Single Largest Completed Contract (SLCC) similar to the Project and the value of which, adjusted, if necessary, by the Bidder to current prices using the Philippine Statistics Authority (PSA) consumer price index, must be at least equivalent to a percentage of the ABC stated in the BDS</p> <p>The Bid Data Sheet (BDS) sets such percentage requirement to 50% of the ABC</p> <p>On the topic of SLCC, we would also like to inquire about how the PSA will view SLCCs submitted wherein the participation of the bidder is part of a consortium. Would the bidder need to provide their official share of the SLCC and the amount applied will only cover their share of the SLCC?</p>	<p>Refer to BB1-29.</p> <p>The bidder is not required to provide the shares of the SLCC. The Contract Price can be used of any of the JV partn*ers constitute SLCC compliance.</p>
BB2-170	<p>PDB Vol 1, Page 41, of the Bid Documents and</p> <p>PBD Vol 1, Page 71, Section VII. Technical Specifications</p> <p>PBD Vol 2, Page 27, Sec 9.2 Estimates of registration volume</p>	<p>What constitutes "similar contracts" in relation to the SLCC requirements? A 40 million gallery size appears to be too low and set arbitrarily.</p>	<p>Refer to BB1-35.</p>

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BB2-171	PBD Vol 1, Page 71, Section VII. Technical Specifications	<p>You are also requiring the Bidder to have completed ABIS-related projects in at least two (2) different countries. Again, this requirement appears to set arbitrarily and does not provide a sufficient basis to determine competence in undertaking the PHILSYS. With this requirement, you are basically saying that a Bidder that has two 20-million gallery size ABIS projects in different countries is qualified than a bidder that has one 200-million gallery size ABIS project in a single country.</p> <p>We reiterate our position that a single gallery size comparable to the 110 million targeted by the PHILSYS is a more appropriate and logical measure of capability and competence. Gallery size, and not number of countries, should be main criteria.</p>	Refer to BB1-05.
BB2-172	PBD Vol 2, Page 29, Sec 10.3 Interoperability Standards	<p>"The ABIS and the Multimodal SDKs for PhilSys must generate standard, interoperable ISO format biometric templates. The fingerprint encoding algorithm proposed must have participated to at least one recent MINEX benchmark organized by the US NIST (National Institute of Standard and Technology). This must be substantiated by an official report as part of the BioSP's Technical Proposal, and will be subject to evaluation."</p> <p>We would like to suggest for PSA to be specific in their minimum qualification criteria. For example: For fingerprint: The algorithm should have participated in NIST PFT II (Proprietary Finger Test) in last 3 years i.e. after 2016.</p>	Refer to BB1-17.

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		<p>Combined accuracy in PFT II for two fingers (position 2+ position 7) should be FNMR < 0.01 @ FMR = 0.0001. For Iris: The algorithms should have participated in IREX 9 evaluation at a minimum. For Face: The Facial Recognition Algorithm should have participated in NIST FRVT 1:1 in last 2 years and accuracy should be FNMR<0.01 @ FMR = 0.000001" This will ensure that the technology used is what's latest now and not from 5 years ago.</p>	
BB2-173	PBD Vol 2, Page 20, Sec 8.4 Credentials	We would like to recommend that if the Department is planning for a QR code, that the information stored inside this QR code should be in PKI encrypted format which can be read via mobile app for offline verification using Facial Recognition 1:1 matching of the compressed photo in the QR with the live face image captured using mobile phone.	The recommendation has no relevance on the BioSP's tender requirements. Additional information will be provided as part of the SI tender documents.
BB2-174	PBD Vol. 2, Page 26, Sec 9. Demand Capacity	We would like to flag that the RFP does not reference size of templates for the three modalities. This is a critical information which will define the hardware sizing and will impact the overall cost of the project. An optimum template size for each of the three modalities without compromising on the accuracy should be considered and included in the clarifications. We recommend a 50kb size for 10 finger templates, 4 kb for 2 iris templates, 2kb for face template.	Refer to BB1-18.
BB2-175	PBD Vol 1, Page 71, Technical	The requirement that the company has to be in existence in the biometrics market	Refer to BB1-06.

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	Specifications, "Experience"	<p>for 10 years.</p> <p>We would like to emphasize that this is a requirement that has no basis for this bid because longevity in the market does not equate to a better track record, nor does it mean they have better products.</p>	
BB2-176	PBD Vol 1, Page 71, Technical Specifications, "Experience"	<p>The requirement for a 2 country implementation.</p> <p>We reiterate that a combined implementation of 40 million is way more inferior than a 1 country implementation with 40 million or more.</p>	Refer to BB1-05.