PHILIPPINE BIDDING DOCUMENTS

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF THE SAFETY OVERSIGHT MANAGEMENT SYSTEM FOR THE CIVIL AVIATION AUTHORITY OF THE PHILIPPINES INCLUDING THE HARDWARE AND SOFTWARE COMPONENTS Bid No. 24-081-10 BRAVO

Government of the Republic of the Philippines

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Preface

These Philippine Bidding Documents (PBDs) for the procurement of Goods through Competitive Bidding have been prepared by the Government of the Philippines for use by any branch, constitutional commission or office, agency, department, bureau, office, or instrumentality of the Government of the Philippines, National Government Agencies, including Government-Owned and/or Controlled Corporations, Government Financing Institutions, State Universities and Colleges, and Local Government Unit. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract or Framework Agreement, as the case may be; (ii) the eligibility requirements of Bidders; (iii) the expected contract or Framework Agreement duration, the estimated quantity in the case of procurement of goods, delivery schedule and/or time frame; and (iv) the obligations, duties, and/or functions of the winning bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Goods to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the "*name of the Procuring Entity*" and "*address for bid submission*," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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- **ABC** Approved Budget for the Contract.
- **BAC** Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender.* (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

- **BIR** Bureau of Internal Revenue.
- **BSP** Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

- **CIF** Cost Insurance and Freight.
- **CIP** Carriage and Insurance Paid.
- **CPI –** Consumer Price Index.
- DDP Refers to the quoted price of the Goods, which means "delivered duty paid."
- **DTI** Department of Trade and Industry.
- **EXW** Ex works.
- FCA "Free Carrier" shipping point.
- **FOB** "Free on Board" shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as "Call-Offs," are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

- GFI Government Financial Institution.
- **GOCC** Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

- **GOP** Government of the Philippines.
- **GPPB** Government Procurement Policy Board.
- **INCOTERMS –** International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

- **LGUs –** Local Government Units.
- **NFCC –** Net Financial Contracting Capacity.
- **NGA** National Government Agency.
- **PhilGEPS -** Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency

which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

- **PSA –** Philippine Statistics Authority.
- **SEC –** Securities and Exchange Commission.
- **SLCC –** Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



INVITATION TO BID FOR "SUPPLY, DELIVERY INSTALLATION AND COMMISSIONING OF SAFETY OVERSIGHT MANAGEMENT SYSTEM FOR THE CIVIL AVIATION AUTHORITY OF THE PHILIPPINES INCLUDING THE HARDWARE AND SOFTWARE COMPONENTS " BID NO. 24-081-10 BRAVO

- 1. The CIVIL AVIATION AUTHORITY OF THE PHILIPPINES (CAAP), through the CAAP Corporate Budget CY 2024 intends to apply the sum of **THREE HUNDRED FIFTY MILLION PESOS (Php350,000,000.00)** being the ABC to payment under the contract for the **Supply, Delivery, Installation and Commissioning of Safety Oversight Management System for the Civil Aviation Authority of the Philippines including the Hardware and Software Components.** Bids received in excess of the ABC shall be automatically rejected at the bid opening.
- 2. The CIVIL AVIATION AUTHORITY OF THE PHILIPPINES now invites bids for theabove Procurement Project. Delivery of the Goods is required by Five Hundred Forty (540) Calendar Days. Bidders should have completed, within the last ten (10) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using a nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

- 4. Prospective Bidders may obtain further information from CAAP Bids and Awards Committee - Bravo and inspect the Bidding Documents at the address given below during Office Hours from 8AM to 5PM Philippine Time.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders on 18 October 2024 until the deadline of submission of bid from the given address and upon payment of the applicable fee for the Bidding Documents pursuant to the latest Guidelines issued by the GPPB, in the amount of Php 75,000.00 (exclusive of any and all taxes imposed by relevant government agencies). The Procuring Entity shall allow the bidder to present its proof of payment for the fees by presenting the official receipt in person.
- 6. The Civil Aviation Authority of the Philippines will hold a Pre-Bid Conference on **25 October 2024** @ **9:30 AM** through video conferencing or webcasting via Google Meet, which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **06 November 2024** @ **9:30 AM.** Late bids

shall not be accepted.

- 8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
- 9. Bid opening shall be on **06 November 2024** @ **9:30 AM** at the given address below and/or via Zoom/Google Meet. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The CAAP reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. Bidding Documents may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.
- 12. Upon payment of the bid documents, bidders must provide their respective email addresses to the BAC Secretariat. All communications, including but not limited to Notices, Resolutions, and Replies, among others, will be sent to the email address provided by the bidder/s. The date when such email was sent shall be considered the date of receipt of the bidder/s for purposes of complying with the requirements under RA 9184.
- 13. Bidders must also check the PhilGEPS website, CAAP website, and BAC Secretariat for any bid bulletins and announcements related to the bidding.

14. For further information, please refer to:

ENGR LEANDRO VARQUEZ

Head, BAC Secretariat 3rd Floor Supply, Procurement Building Civil Aviation Authority of the Philippines MIA Road corner Ninoy Aquino Avenue 1300 Pasay City, Metro Manila Telephone number – (02) 8246 4988 loc 2236 Email address – **bac@caap.gov.ph** www.caap.gov.ph

ATTY. DANJUN G. LUCAS

Chairperson, Bids and Awards Committee – Bravo

1. Scope of Bid

The Procuring Entity, **Civil Aviation Authority of the Philippines** wishes to receive Bids for the **Supply**, **Delivery**, **Installation and Commissioning of Safety Oversight Management System for Civil Aviation Authority of the Philippines including Hardware and Software Components** with identification number **Bid No. 24-081-10 BRAVO.**

The Procurement Project (referred to herein as "Project") is composed one (1) lot, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for COB 2024 in the amount of THREE HUNDRED FIFTY MILLION PESOS [Php 350,000,000.00].
- 2.2. The source of funding is:
 - a. GOCC and GFIs, the proposed Corporate Operating Budget.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary sour ce thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:
 - a. For the procurement of **Non-expendable Supplies and Services:** The Bidder must have completed a single contract that is similar to this Project, equivalent to **at least fifty percent (50%) of the ABC.**

For this purpose, the similar contract mentioned above must have been completed within the period specified in the Invitation to Bid.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

Subcontracting is not allowed.

8. **Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within ten (10) years as provided in paragraph 2 of the **IB** prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant

to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in Section VIII (Checklist of Technical and Financial Documents).
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, exwarehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in the **BDS**.
 - b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in the **BDS**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration¹ or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until one hundred 120 days from the opening of bids. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 14 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in Section VII (Technical Specifications), although the ABCs of these lots or items are indicated in the BDS for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as One Project having several items that shall be awarded as one contract.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be:
	a. Supply, Delivery, Installation and Commissioning of Safety Oversight Management System for Aviation Authorities or its equivalent;
	 completed within ten (10) years prior to the deadline for the submission and receipt of bids.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:
	a. The amount of not less than P7,000,000.00 [2% of ABC], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or
	 b. The amount of not less than P17,500,000.00 [5% of ABC] if bid security is in Surety Bond.
15.0	1. Each and every page thereof shall be initialed/signed by the duly authorized representative/s of the Bidder.
	Submitted Eligibility, Technical and Financial documents shall be properly marked with index tabs (ear tab) and must be sequentially paginated in accurate order in the form i.e. "page 3 of 100". Page number of last page of the document (per envelope basis).
	Pagination should be sequential based on the entire span of the whole documents inside the envelope.
	2. Each Bidder shall submit one (1) copy of the first and second components of its bid.
19.1	The Bidder must render its Statement of Compliance/Conformity with Bidding Documents as enumerated and specified in Section VII. Technical Specifications
19.2	Partial bid is not allowed. The project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20.2	The Bidder with the Lowest Calculated Bid (LCB) that complies with and is responsive to all the requirements and conditions shall submit its:
	 a) Latest income and business tax returns filed through the Electronic Filing and Payment System (EFPS);
	 Business licenses and permits required by law (Registration Certificate, Mayor's Permit, & Tax Clearance); and

	c) Latest Audited Financial Statements
	 d) Certificates of Satisfactory Performance from at least two (2) previous and/or existing civil aviation authority clients for which the proposed system/application was installed, and commissioned. The projects must have been awarded, completed, and promptly implemented within ten (10) years prior to the opening of the bids.
	e) Organizational chart with the detailed qualification of its personnel involved in the project which should have a technical background on developing an aviation safety oversight management system software. Subject matter experts shall have at least four (4) years' experience in developing an aviation related software (e.g. regulatory management, airmen licensing, certification, surveillance and resolution of safety concerns, aviation safety analysis) used by regulators in its safety oversight functions.
	Failure to submit any of the post-qualification requirements on time, or a finding against the veracity thereof, shall disqualify the bidder for award. Provided, that in the event that a finding against the veracity of any of the documents submitted is made, it shall cause the forfeiture of the Bid Security in accordance with Section 69 of the IRRT of RA 9184.
21.2	The attached Technical Specifications (Terms of Reference) for Supply , Delivery , Installation and Commissioning of Safety Oversight Management System for the Civil Aviation Authority of the Philippines including the Hardware and Software Components shall be an integral and inseparable part of the contract.

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC**, **Section VII (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

5.1 In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184. 5.2 The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

GCC Clause 1 Delivery and Documents -For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows: [For Goods supplied from abroad, state:] "The delivery terms applicable to the Contract are DDP delivered [indicate place of destination]. In accordance with INCOTERMS." [For Goods supplied from within the Philippines, state:] "The delivery terms applicable to this Contract are delivered at the [indicate place of destination]. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination." Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements). For purposes of this Clause the Procuring Entity's Representative at the Project Site is the Management Information Systems Division. Incidental Services -The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements: performance or supervision of on-site assembly and/or start-up of a. the supplied Goods; furnishing of tools required for assembly and/or maintenance of the b. supplied Goods; furnishing of a detailed operations and maintenance manual for C. each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and training of the Procuring Entity's personnel, at the Supplier's plant e. and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods. f. Integration cost of the existing system and databases additional requirements to be provided under the Contract shall g. include those specified in the Terms of Reference

Special Conditions of Contract

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.			
 Spare Parts –			
The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:			
 such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and 			
2. in the event of termination of production of the spare parts:			
 advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and 			
following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.			
The spare parts and other components required are listed in Section VI (Schedule of Requirements) and the costs thereof are included in the contract price.			
The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of the warranty or as agreed by the parties. Service units for the supplied/delivered devices must be made available 24/7 during the warranty period.			
Spare parts or components and service units shall be supplied as promptly as possible during the warranty, but in any case, within a period agreed by the parties.			
Packaging –			
The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.			
The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.			

The outer packaging must be clearly marked on at least four (4) sides as follows:
Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications
A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.
Transportation –
Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.
Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.
Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.
The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.
Intellectual Property Rights –

Regular and Recurring Services – [In case of contracts for regular and recurring services, state:] "The contraregular and recurring services shall be subject to a renewal whereb performance evaluation of the service provider shall be conducted accordance with Section VII. Technical specifications." 2.2 The terms of payment shall be as follows: The project shall be paid on the schedule indicated which shall not exception the ceiling specified in Table 1. Project Activity / Deliverables Payment progressive payments based on a milestone upon acceptance by the payment shall be made only after the final payment shall be payment shall be payment shall be made only after the final payment shall be pa	y the ed in
2.2 The terms of payment shall be as follows: The project shall be paid on the schedule indicated which shall not exc the ceiling specified in Table 1.	
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TOTAL 100% of the To Project Cost	

4	The inspections and tests that will be conducted shall include but not limited to the physical inspection and inventory, software testing and/or whatever additional tests that the Technical Inspection Team may require.

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

ltem Number	Description	n	Quantit	у	Delivery Days / Weeks / Months
1	Customized Safety Oversight Manage System Application	ment	As specified Section VII. Technical Specification		
2	Cloud Services		As specified Section VII. Technical Specification		
3	Tablet, pc and othe equipment (specifi Section VII Terms of Reference)	ed in	As specified Section VII. Technical Specification		540 calendar days after
4	Revisions of Techr Guidance Materials integration of data and systems affect the new system	s and bases	As specified i Section VII. Technical Specification	n	receipt of Notice to Proceed
5	Training: (specified Section VII Terms of Reference) SOMS Application		As specified i Section VII. Technical Specification	n	
	Administration SOMS Train-the-Tra SOMS End-user	ainor			
6	Warranty and Supp Agreement / Certifi		3 years Maintenance Agreement	e	
	Nothing follows				
	TOTAL				540 days
SIGNATU	JRE OVER PRINTED NAME	PO	SITION		ARTMENT/DIVISION

Section VII. Technical Specifications

Technical Specifications

Item	Specification	Statement of Compliance
		[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]

ltem	Specification	Statement of Compliance
0	GENERAL	
0.1	The Civil Aviation Authority of the Philippines is looking for a commercial off the shelf solution (COTS) software designed for aviation regulators in managing safety and security oversight and	NA

	 its regulatory functions which shall not be limited to the following: 1) Qualification of Personnel 2) Certification and Licensing 3) Surveillance; and 4) Resolution of Safety Concerns. This Section (Terms of Reference) details all requirements for	
	CAAP's regulatory functions. The SOMS shall continue to evolve, improve, and introduce additional enhancements to meetthe ever-evolving needs of the	
	COMMERCIAL ASPECT	
1.0	COMMERCIAL ASPECT	
1.0	GENERAL	
1.0		
	Authority.	
	 3) Surveillance; and 4) Resolution of Safety Concerns. This Section (Terms of Reference) details all requirements for CAAP's regulatory functions. The SOMS shall continue to evolve, improve, and introduce 	
0.3	1) Qualification of Personnel	
	 requirements on Certificate Holders. The SOMS shall help accomplish the following objectives: Standardizes the work being accomplished across FSIS, AANSOO and other CAAP Offices Improves efficiency and collaboration between CAAP and its stakeholders Helps CAAP aviation safety inspectors determine riskbased, data-supported oversightdecisions Provides a standardized system that will determine compliance with regulations Assists in reducing aviation risks and by increasing safety oversight 	
0.2	SOMS shall include the policy, processes, and associated software that FSIS, AANSOO and other CAAP Offices shall use to capture data in conducting its oversight function. SOMS is not a separate safety standard and does not impose additional	
0.2	 Management System (SOMS) should create a standardized risk- based, data-supported oversight system across Flight Standards InspectorateService (FSIS), Aerodrome and Air Navigation Safety Oversight Office (AANSOO) and otherCAAP offices engaged in aviation operations. SOMS shall serve as CAAP's oversight tool to certification, surveillance, and Continued Operational Safety (COS). SOMS shall include the policy, processes, and associated 	

	 Be able to develop a versatile and user-friendly software in]
	order to cater the management of day-to-day tasks of the Authority in complying with the international and local regulations, national regulations and other regulatory compliances;	
	 Able to develop a system that is efficient in managing audits and compliances. 	
	 Able to develop a user-friendly application and allows users to adopt with minimal training. 	
	 Be able to fully implement the project within eighteen (18) months from the issuanceof Notice to Proceed. There should be minimal to no interruption to the system used by the Authority during the transition period in the implementation of the project. 	
	 Provide the after-sales maintenance service of 3 years. The maintenance service shall include updates in accordance with the ICAO requirements, system enhancements, new features, big fixes and support for error handling. 	
	 Be capable of migrating and integrating the existing database of the different offices of the FSIS and AANSOO to the new system for the qualifications and trainings of the employees especially the technical personnel. 	
	 Be capable to revise existing technical guidance materials that will be affected by the change of system. The tasks will include but not limited to technical writing and consulting services regarding the new system. 	
1.2	The Winning Bidder is required to:	
	 Provide a detailed description of the following: 	
	 Project implementation Transition plan Migration and integration of data and system from the existing database to the new system Project organization Project phases Project plan System of reporting Change request handling Test to live system Extent of involvement of supplier Customer Service Response 	
1.3	The System should be:	
	 Able to cater the operational needs of the different departments of the Flight Standards Inspectorate Service (FSIS) and Aerodrome and Air Navigation Safety Oversight Office (AANSOO) in order to comply with the international and local aviation regulations. Thus, the developed system should be a fully functioning modular system that is capable 	

 of supporting an individual office, service and address the safety oversight function of the Authority to able to cope up with future compliances. Able to provide a platform wherein senior management may have visibility of emerging safety risks necessary for the Authority to control and develop a strategy to miligate them. Able to replace the present certification and verification of documents or minimize the use of paper to lessen our carbon footprint in line withour mission to have a green Philippine sky; Able to show the status of each applicant at each office, the person handling the process, the date when it was transmitted, includingthe significant remarks made to minimize delay and persistent follow-ups from the applicants end; Capable of sending requests for verification and certification to other civil aviation authorities. Capable of sending requests for verification and monitoring. Compatible with any mobile devices and capable of offline accessibility to accomplish distribution andmonitoring. Capable of endorsing a completed task following the workflow: Able to provide an analysis tool and generate a report and a comprehensive view of the safety and security risks from the data gathered in the system; Able to create dashboards (tables, graphs, pie charts as needed) Capable of producing data and statistics in relation to the different transactions, activities and information obtained during the use of the system. Able to create dashboards (tables, graphs, pie charts as needed) Capable of producing data and statistics in relation to the different transactions, activities and information obtained during the use of the system. Able to continuced mean to the different transactions, activities and informeation obtained during the use of the system for continued impro			
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its progress which can aid in lessening the administrative burden			
of the Authority.		of the Authority.	

2.0	Employee Application Portal – The supplier should be able to develop a platform that can beused offline by CAAP employees, to perform their functions such as but not limited to audit, inspections, investigations, research. This shall include a read and review feature that allows the responsible personnel to read and review individual pages that are awaiting approval and act on it.
2.1	GENERAL
	• The software provider shall ensure a project plan that includes the incorporation of existing and subsequent ICAO and other regulatory (national and international) compliances in the development of the system.
	 Configurable standard software for aviation regulators in the performance of itsoversight functions and in the management of daily tasks
	 The supplier shall ensure that all data are secured by ensuring that the system is incorporated with layers of protection to manage data security and protection.
	 All data should be synchronized to a single database which can be accessed only by the assigned system administrator.
	• The supplier should be able to develop a system that will generate alerts on any unusual trends in the data that may affect aviation safety and security risks based on the data across the whole industry and insights in how the Authority is performing as well as generate repots and statistics.
	 The software shall have the capacity to identify new entries or revisions.
	 The system should be able to generate statistics and data reports and shall have the capability to of an online/offline availability for audit inspections
	 The system should be able to store and secure necessary data, files, and documents usedby the different departments of the Flight Standards Inspectorate Service and the Aerodrome and Air Navigation Safety Oversight Office in the performance of its oversight functions
	The system shall have a detailed tracking of user activities in its historical record and an option to show the entries and changes made by the previous user.
	 The system shall have a Graphic User Interface (GUI) with windows look and feel. They system should have a typical windows element that is user friendly.
	The supplier should be able to develop a system that will enable the personnel to communicate and collaborate more efficiently. Setup custom workflows and standardize processes across all offices so that everyone knows what to do, how and when.
	The system should be able to securely store examination sheets and has the capability of an online checking and computation of

2.1.1 Technical Aspects The software shall have the following specifications: • Software development application • Automated software distribution • Running in via intranet and internet • Works online or offline (data will be uploaded or synchronized in the system upon availability of internet connection) • Runs with a dependable and reputable server database • Supports standard application server • Multi-platform strategy for servers • Multi-level logging via application server for error tracing • Multi-level logging via application server for error tracing • Multi-level logging via applications • Plausibility checks during data inputs to be performed on client site/side • Online help/support through the whole duration of the completion of the system 2.1.2 Mobile Availability In order to have an effective and efficient workforce, the system should be incorporated as part of the mobile devices. The data during offline auditing tools should allow the FSIS and AANSOO personnel to conduct audits in their mobile devices. The data during offline audits should allow the SIS and AANSOO personnel to conduct audits in their mobile device and the report babase on a configurable print template. • The system should be able to generate at		scores of such examinations.	
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Must be able to store contact data of a large amount within the			
		 Must be able to store contact data of a large amount within the organization unit 	

	 Must be able to store the profile of a person within the organization 	
	Endless levels of hierarchies	
	Any number of contact persons within an organization unit	
	 Assigning a person to more than one organization unit with different positions perorganization unit 	
	 Any number of attributes assigned to an organization unit or person 	
	 Any number of addresses assigned to an organization or contact person 	
	 Classification of the usage per address type: standard, warning, etc. 	
	 Navigation in the organization tree, e.g. from a contact person to the respective department and then to all the employees of this department, from there on to the organization and all its dispatch groups. 	
	 Detailed tracking of history with storage of previous values and preferably a function to compare values of the historical record 	
	Export and Import Interface	
	Central management and server storage of print templates.	
	 Export the result of an addressee list to XML or CSV to allow further external processing 	
2.1.4	Permission Management	
	The Permission Management System should be capable of a flexible and customizable permissions to maintain the appropriate balance of collaboration and control to ensure that the data stored by the Authority is secure and protected.	
	The system should be capable of performing the following functions:	
	 Permission management is restricted to a few select users. The software account ownerand system admins can manage permissions within the project management software. This includes creating, customizing, and deleting roles. 	
	 Manage permissions at the level of an individual user. For example, user management enables you to select exactly what Juan Dela Cruz can see and edit. 	
	 Capable of role management which allows you to manage permissions at the role level. 	
	 Capable of managing permissions tied to a specific folder or project. 	
	 A registration for an unlimited number of users 	
	Establish a decentralized group administrator	

	 Provide a customized structure of access to information for a user depending in the levelof permission
	 Capable of creating a role based right and permission management
	 Equipped with a user management chart that allows you to view all users associated with your software account, including users with pending invitations.
	 The Permission Management System should be equipped with data catalog which mustinclude access and input control mechanisms
	The system shall offer:
	Any number of registered users
	Establishment of decentralized group administrators
	Structure of users into groups and/or roles
	Role based rights and permission management
	Collection of roles in groups
	Should be basis for all application modules
	 Roles gather rights on workflows, menus and input fields within the applicationmodules
	 Definition of: edit, add, view, create and delete rights
2.1.5	Integrated Reporting Tool
	The system must be able to generate data visualization tools that may be used in inquiriespertaining to the data fields present in the different modules:
	 The data can be defined freely by graphically adding fields from different tables.
	The result may be controlled by setting filters in certain fields.
	 Must be capable of connecting all data in a single trusted source
	Must be capable of analyzing and cascading aviation data
	 Must be able to generate data visualization tools by merging data from differentmodules or database linked in the system
	Must be able collate data across different modules
	 Must be equipped with communication tools for collaborative reporting
	Capable of providing several layers or security for data protection
	Must have a user-friendly interface
	The system shall be capable of searching data and generating reports from the data available across all modules. The system should be capable of the following:

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	 The queries can be defined freely by graphically adding fields from different tables.
	 The query result can be controlled by setting constraints on certain fields.
	 Collation of data from different tables. It shall also support merging of data in a certaincontext that only "joinable" tables can be selected selectable.
	Queries can be implemented on data spread over all modules (cross module reporting).
	 The information (results) shall be protected by the permission management system;
	 Hierarchy structures such as organization trees shall be supported too.
	 The queries can be stored for later reuse and being made available to other modules bydynamically inserting them as menu items in designated "Report" menus.
	Typical reports can be assigned to user groups, which ensure an easy usage by non- experts.
	• The result data can be exported for further treatment in external programs. The standardexport formats shall be MS-Excel and MS-Word, for instance. We like to define templates to adjust the layout accordingly.
	Querying by groups is possible.
	Results of queries can be linked to print templates
	 The user shall be able to configure the automated execution of queries (time interval, time of execution etc.)
	• The query tool shall allow the creation of serial e-mails with variable fields. This shallgive the CAAP the possibility to send automatically e-mails, for example to all licenseholders where a rating or license will expire in a given period of time.
	 Queries can be linked to modules to make them available. A query must respect the permissions of the user defined in permission management module.
2.1.6	Alerts
	 The system should be capable of providing different alert notifications that can be associated to persons, organizations, or aircrafts.
	 The system should manage the details of the different kind of alerts (open findings,open enforcements, planned audit and inspection etc.).

	 The system should be capable of providing alert notification for any unusual data changes or delays in process or transaction 	
	 The system should show clear alert symbols in the header information of persons, organizations, and aircraft, and in result lists. 	
2.1.7	Security	
	Security is one of the crucial aspects of using technology. As such, the system should be capable of tracking audit trails for each user accessing the system, their tasks, actions, edits and the date and time of each activity.	
	 The system should be able to provide accountability and evidence-based data. 	
	 All data should be synchronized to a single database which can be accessed only by theassigned system administrator. 	
	 To ensure check and balance the users shall have different access levels. 	
	 The system shall have the capability of providing a multi-user environment with administrative privileges and user reporting features designed to meet individual system users' compliance. 	
	 The system should be capable of performing a two-factor security authentication. 	
	 The system shall include a process for identifying, testing, and deploying security patches/updates to ensure the continued security and integrity of the system. 	
2.1.8	Confidentiality and Non-Disclosure	
	 The CAAP will provide various data, records and including sensitive or critical information relevant to the different regulatory offices' duties and functions but the confidentiality and/or disclosure thereof shall be maintained and cannot be disclosed and/or disseminated by any CAAP personnel and the supplier / contractor including itsemployees without the written permission of the Director General or his duly authorized representatives. 	
	 Access to any and all data contained in the system to be developed shall be given only to those personnel and individual authorized by the Director General. 	
	• Disclosure of the data without the required permission shall be a ground for the cancellation / rescission of the project and/or filing of the appropriate cases against the violators.	
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2.1.9		
	Ownership	
	 Once developed, the ownership of the data base/system shall be retained by the CAAP. The winning bidder shall provide a perpetual license certificate for the continuous use of the developed system. 	
2.2	GENERAL REQUIREMENTS	
2.2.1	FLIGHT STANDARDS INSPECTORATE SERVICE	
2.2.1.1	A. AIRMEN EXAMINATION BOARD (AEB)	
	In view of the AEB's aim to streamline its data process flow to improve productivity and efficiency, the AEB proposes to replace the old examination system and address the issues on system security, capacity limitations, system performance, and location dependency.	
	Security Features	
	 The system shall be equipped with an Activity Tracking log that shall record critical user inputs such as the creation, modification or deletion of records. 	
	 All examination questionnaires should be synchronized to a single database which canbe accessed only by personnel authorized by the Department Manager of the AEB. 	
	 Examination results should be generated immediately after completion of the exam and recorded to the profile of the examinee. 	
	 The digital copy of the questionnaires shall not be in any way downloadable. 	
	Airmen Examination Module	
	 The system shall be able to execute a search, create, update, read, delete (SCRUD)operations. 	
	 Updating or deleting records shall require the override password of the SOMSAdministrator. 	
	The system shall be accessible to offsite examination centers.	
	The module should contain the following information:	

	 Number of examinees scheduled every day 	
	 Number of certificated issued which can be grouped in different 	
	categories	
	 Number of examinations conducted grouped in different 	
	categories.	
	Reporting	
	The system should be able to generate a detailed report of	
	information on the database which is needed by the department	
	in the performance of its functions.	
	Monitoring	
	The system should be able to record the status of the Test Report	
	Application from theinitial stage until the results are released.	
	Verification	
	The AEB Staff should be able to verify the authenticity of the Test	
	Report either by cross checking in the database or through the	
	security features imbedded in the printed or digital copy of the	
	test result.	
	Modules for Examinees	
	 All activities shall be logged including the user name, the time of activity, and themodification made. 	
	 The system should be capable or compatible with any third party application for thepayment of the required fees. 	
	• The examinees account should be able to view and monitor	
	the status of theirexamination, their examination history, fees	
	paid and its progress.	
	 The examinees account should be able to receive notifications from CAAP of anyannouncements related to the examination. 	
	Examination Module	
	• The system should be able to give each examinee an account	
	with their corresponding passwords. Each account should	
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	requirements that the examinee has to comply;	
	 The interface should be user friendly and contain a full instruction of the examinationsystem; 	
	• The system should be capable of displaying the status of the	
	exam;	
	• The system should be capable of skipping questions,	
	marking a certain item, returningto unanswered questions, etc.,	
	answers upon reaching the timelimit of the examination	
	that shall include updates in accordance with the ICAO	
	 contain the examinees personal, professional and academic details; The system should not be able to proceed with the processing of the examination should there be any incomplete requirements that the examinee has to comply; The interface should be user friendly and contain a full instruction of the examinationsystem; The system should be capable of displaying the status of the exam; The system should be capable of skipping questions, marking a certain item, returningto unanswered questions, etc., The system should automatically terminate and save the answers upon reaching the timelimit of the examination 	

	needed	
2.2.1.2	AIRWORTHINESS DEPARTMENT	
	The service provider should be able to cater the functions of the Airworthiness Department (AWD) in ensuring that the office conforms to the applicable regulations for aircraft type certification, aircraft registration and their continuing airworthiness and AMO.	
	 The system should be capable of catering online applications from stakeholders and detect the completeness of the application requirements based on the presence or absence of the documents. In addition (for AMO), a readily available list of procedures, requirements, and references (ACs, Guidance Materials, applicable PCAR's, references) for original/initial, renewal, modification (additional or deletion of ratings/capabilities). 	
	• The system should provide a standard AMO application form (e.g. capability of having a drop-down list of AMO ratings/capabilities). Likewise, a standard, controlled and secured AMO certificate (for original issuance, renewal, modifications, etc.) should also be provided by the system.	
	 A system that monitors (real-time) status of AMO applications and certifications (original – 5 phases of certification, renewal, additional/deletion ratings). Also monitoring of the status of approvals of nominated post holders and manuals (MOPM, training program, quality manual, capability list, etc.) 	
	 The system should be able to provide data that will aid in aircraft registration and/or iscapable validation to other civil aviation authorities. And availability of current list of local and foreign AMO (active/inactive) and respective ratings/capabilities. 	
	 The system should be able to record any non-conformance or safety issues in relation to the registration or continuing airworthiness and AMO and trigger an alarm or notification to the concerned personnel. Moreover, an alert system for overdue SI's or admin tracking (for observations), AMO certificate due for renewals (60 days prior to expiration) and/or surveillance (subject to the CSP). (or The system should be capable of providing alerts on areas of non- conformance. 	
	• The supplier shall ensure that the system can aid the AWD in ensuring that it complies with the applicable regulations for aircraft type certification and their continuing airworthiness	
	The aircraft's model and serial number should also show historical safety occurrences reported by other CAA (Civil Aviation Authority) organizations.	
	 Such other specifications necessary as determined by the end user that requires modification or alteration of the existing system upon procurement. 	
2.2.1.3	FLIGHT OPERATIONS DEPARTMENT	
	It is the responsibility of the Flight Operations Department to ensure that operations of airworthy aircraft are conducted by qualified and current flight crews in compliance with international	

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	operating rules and practices adopted by the Authority which should be ensured by the supplier.	
	 The system should be able to adopt the previous/existing digital system contents and all feature requirements for migration. 	
	 The system should be capable of modification / customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed 	
	 The system should be able to view business letters/correspondence format inputs readyfor printing. 	
	 The system should be able to provide a surveillance work plan, recording andtracking/alerting. 	
	 The system should be able to provide a data storage capacity enough to accommodate for the next 20 years. 	
	The system should include AOC, RPAS Certification, Checklists, surveillance and riskassessment.	
	 The system should have a comprehensive, regular and dedicated/trained personnel maintenance and trouble shooter. 	
	 The system should be capable of aiding the CAAP personnel in the periodic inspection with regard to the operator's compliance with the existing regulations with regard to: The system should be capable of providing alerts on areas of non-conformance. The system should be able to aid in the confidential conduct 	
	 of investigations/inspection The system should be capable of issuing certificates with security features The system should be able to track compliance with the qualification requirements and currency of the flight crew and elegated dimentations. 	
	 and aircraft dispatchers. Such other specifications necessary as determined by the end user that requires modification or alteration of the existing system upon procurement. 	
2.2.1.4	LICENSING AND CERTIFICATION DEPARTMENT	
	As the office responsible for the Authority's compliance with the applicable regulations on personnel licensing, the supplier shall ensure that it shall cater the needs of the Licensing and Certification Department with regard to applications, recommendations for testing and coordination of the skill tests. It shall ensure that the integrity and security of the data in the system.	
	The system will be used for managing all safety oversight activities, applying for aviation security certification concern, and applying for personnel license and certificate. The Authorityaims to provide an efficient means of submitting applications, managing all safety audit findings, and administering invoices and receipts.	
	 The system developed should be able to aid in the review of the applicant's compliance with the applicable PCAR provisions on personnel licensing 	
	 The software is capable of providing or linking to reference materials that may be applicable in the performance of the 	

	functions of the LCD	
	The software should be capable of securely	
	accommodating online transactions forlicense application, verification, and issuance.	
	I he system should be securely accessible by the public to verify the authenticity of aCAAP issued airman license	
	• The software should be capable of sending notifications to	
	stakeholders such as but not limited to the status of their	
	transactions, in case of any non-compliance, renewal and	
	etc.,	
	• The system should be capable of archiving/uploading	
	oversight records of Airmen and Training Organizations.	
	The system should be capable of managing of data of RPA Contificate English anguage Contificate	
	Certificate, EnglishLanguage Certificate.	
	 The system should have the capability of having a drop-down list of the following in encoding licenses: 	
	o Ratings	
	o Endorsement	
	 Automatic encoding of issue date and expiration date The system should be capable of complying with ICAO 	
	• The system should be capable of complying with ICAO requirements on other types of licenses such as but not	
	limited to:	
	• Ground Instructor	
	• Flight Instructor	
	○ Flight Dispatcher	
	Aeronautical Station Officer	
	o Flight Engineer	
	• The system should be capable of migrating data of licenses	
	and training organizationsfrom old database system to new	
	database system.	
	Licensing Module	
	• The system should be capable of accommodating online	
	transactions for the differentlicenses and certifications issued	
	by the LCD.	
	The system should be capable of safety and securely storing submitted decuments ferprocessing	
	submitted documents forprocessing	
	• The system should be capable of cross checking and validating data from otherModules.	
	 The system should be able to accommodate requests for 	
	validation from other modules	
<u> </u>	Such other specifications necessary as determined by the	
	end user that requires modification or alteration of the existing	
	system upon procurement.	
	• Such other specifications necessary as determined by the	
	end user that requires modification or alteration of the existing	
	system upon procurement.	
	Approved Training Organization Module	
<u> </u>	Based on the requirements you mentioned, here are the key	
	functionalities that the Approved Training Organization (ATO)	
	Module should have in order to cater to the regulatoryneeds of the	

 Flight Standards Inspectorate Service: User Access Control: The system should have role-based access control to ensure thatonly authorized personnel can access and manage ATO-related information. ATO Registration and Management: The module should allow for the registration andmanagement of ATOs, including their contact information, approval status, and associated personnel. Document Management: The system should provide a centralized repository for storingand managing ATO-related documents, such as training manuals, syllabi, and procedures. Certification Process: The module should facilitate the certification process for ATOs, including the submission and review of required documentation, evaluation of training programs, and issuance of ATO certificates. Training Program Approval: The system should support the review and approval of ATO training programs, ensuring compliance with regulatory standards and guidelines. Monitoring and Surveillance: The module should enable ongoing monitoring and surveillance of ATOs, including periodic inspections, audits, and assessments to ensure continued compliance with regulatory requirements. Incident and Non-Compliance Reporting: The system should Incident and Non-Compliance Reporting: The system should
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allow for the reporting and tracking of incidents and non- compliance issues related to ATO operations, ensuring timely investigation and corrective actions.
 Compliance Monitoring: The module should provide tools for monitoring ATO compliance with regulatory requirements, including tracking of training records, instructor qualifications, and course updates.
 Performance Metrics and Reporting: The system should generate reports and performance metrics related to ATO oversight activities, allowing for data-driven decision-making and identification of trends or areas of concern.
Communication and Collaboration: The module should facilitate communication and collaboration between the Flight Standards Inspectorate Service and ATOs, allowing for secure messaging, document sharing, and notifications.
 Integration with Other Modules: The ATO Module should integrate with other modules of the Safety Oversight Management System (SOMS), such as the Document Control Module and Audit Management Module, to ensure seamless data exchange and processintegration.
2.2.1.5 OFFICE OF THE FLIGHT SURGEON AND AVIATION MEDICINE (OFSAM)
As the office responsible in conducting and evaluating the

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	medical fitness of the airmen and make recommendations in relation to those findings, the supplier should be able to ensure that the Authority can securely and efficiently comply with the existing regulations.
•	The supplier should be able to develop a fully functioning modular software that is configurable to meet the regulatory needs of the Authority, ready to use and integrate with the current systems on place.
•	The software must be capable of accommodating online appointments, payment system, uploading of medical forms, approvals and issuance of appropriate certificates with securityfeatures.
Me	dical Examinations
to	AP needs to use a module handling the requirements according PCAR Part 2 (medical provisions) and/or applicable gulations.
sh off do Av sh	edical Examiners perform medical fitness checks, for airmen ould be capable to fill out the applicable forms electronically or line and should be able communicate and submit the cuments with the CAAP - Office of the Flight Surgeon and iation Medicine (OFSAM) using the workstation. OFSAM ould be able to evaluate and act on the examinations submitted.
	e supplier should be able to develop a software with the following atures:
•	Calculation of all necessary examinations and computation the validity of the medicals (even for different kind of examinations of each person at a certain examination date)
•	Modeling an airman's Entire medical examination history
•	Multi-user application: several persons can work on a pool of applicants via a shared "to-do-list"
•	System rights to model different end-user roles with dedicated permissions within thesystem
•	Access to complete history for authorized personnel as well as grant read rights to otherpersonnel to give access to historical data.
•	Numerous plausible checks for completeness and dependency of the medical forms
•	Re-use availability of old / previous data prior examination
•	Pilot can fill in own application form electronically
•	Integration of data from external equipment (files like PDF etc.)
•	Automatic data transfer from extended forms to medical examination report
•	Printout of all forms and certificates completely filled in
•	Printout of several different medical certificates per person
•	Modeling specific work flows: expert consultation, temporary

e	Infitness, unfitness, interim, allocating read-rights on certain examinations to other physicians, further transfer, transfer back (reject), etc
e n	ntegration of experts. Experts can execute special examinations prior to a medical fitness check. Aviation nedical supervisor can decide to use expert examinations at a later medical examination
• E	Encrypted saving of all medical data
• V	Varning system via screening report
fo	Automatic screening including pre-sorting the examinations or the medical examinerbased on a configurable threshold value model
	Aviation medical supervisor can declare applicants as fit, unfit, suspicious, reject cases, forward cases for evaluation
a	Aviation medical supervisor can also change limitations of an applicant and can re-printthe medical certificate with changed lata
	Red alert flag" for suspicious applicants (message of the nedical examiner to the useropening a suspicious candidate)
• A	Ability to import or scan documents as part of the examinee file
• E	Export of statistical data (anonymous medical data)
	nterface to flight crew licensing, air navigation services and address management module.
• S	Aviation medical supervisor can "shift" examinations from one medical examiner toanother Such other specifications necessary as determined by the
	end user that requiresmodification or alteration of the existing system upon procurement.
2.2.1.6 REGU	JLATORY STANDARDS DEPARTMENT (RSD)
The s divisio develo issuar safety	system should be able to cater the needs of the different ons of the RSD in performing its primary function in the opment and maintenance of regulations and othe aviation nces, reporting and analyzing aviation trends that may affect and managing and preserving aviation records: Comprehensive system to meet the needs of all divisions of the
F	RSD.
	Ability to develop and maintain regulations, analyze aviation trends, and manageaviation records.
	obust reporting and analytics capabilities for efficient decision naking.
Aviati	on Records Management Division
• T b	The system should be compatible with the existing one used by the ARMD for a moreefficient transfer of data.
• T	The system should be equipped with security features for the

I	aska kaaning of aviation related decurrents	
	safe keeping of aviation related documents	
	 Such other specifications necessary as determined by the end user that requires modification or alteration of the existing system upon procurement. 	
	 The system should be able to handle online transactions for retrieving or verifying records, as well as issuing a certificate of authenticity with an integrated security and authenticity feature. 	
	Technical Library	
l f	The Technical Library is a vital part of the FSIS. It is responsible for maintaining reference materials and audit documents that FSIS personnel need for their daily operations. Suppliers should be able to develop a software that:	
	Capable of offline accessibility;	
	• Capable of assigning different levels of access and security feature depending on the classification of the document.	
	 Capable of securing and encrypting voluminous aviation related data; 	
	• Capable of being linked into the official website of the Authority;	
	 Capable of being linked in other 3rd party service providers or website that may be used as reference materials and technical guidance 	
	• The system can upload/download manuals, notices and forms that can be used for cross-referencing.	
	Aviation Safety Analysis Division	
	 The system should be capable of risk profiling from the encoded Safety Reports of the SDCPS and Safety Issue found during audits and inspection as part of the oversight function of CAAP 	
	 The system should preferably be compatible with ECCAIRS II of the ICAO 	
	 System needs to have an SDCPS (Safety Data Collection and Processing System) Reporting gatekeeper 	
	 The system should be capable of being securely linked/shared to service providers orother offices performing oversight functions for them to input data. 	
	• The system should be equipped with electronic forms that could enable an efficient collection of data.	
	 The system should be capable of extensively tracking incidents and near miss reporting, investigation, and action tracking 	
	The system should be capable of classifying and categorizing the different risks as perSMICG Hazard Taxonomy	
	 The system should be capable of generating statistics and other data driven facts out of the collated aviation safety related data 	
	The system should be capable of creating a notification or alert on threshold breachesto prevent or mitigate events.	
	The system's risk management should have a wide ranging intuitive and highly visualrisk management capability.	
	 The system should be able to securely store the voluminous 	

	data stored in the SDCPS.	
	The system should be capable of reporting, business intelligence (PI) Apticipative rick and performance	
	intelligence (BI) Anticipative risk and performance management. Able to generate automatic tables, graphs and	
	pie chartsas dashboards with regard to any possible queries	
	for summary analysis reports.	
	For Safety Issues Database	
	• The system should be able to be link, integrate with any	
	existing system and utilize data archived with the	
	organization	
	 System should be capable of integrating options of the SDCPS 	
	in ASAD	
	• The system should be capable of performing Audit	
	Management from scheduling toClosure	
	• The system should be capable of managing non-	
	conformance, corrective and preventive actions	
	• The system should be able to store Audit and Inspection	
	findings made by FSIS Inspectors	
	• The system should be able to generate risk profile from	
	amongst the Service Providersaudited and inspected	
	The system should be able to generate trends and Analysis	
	(Tables, graphs) dashboards	
	Regulatory Standards Development Division	
	• The system should come up with a module capable of online	
	collaboration within the division in the development of the	
	regulation. The module should:	
	a) Clearly indicate the PCAR Parts with a subject overview.	
	b) Convert the State Letter/Petition from PDF to Word file.	
	c) Provide a portion for the specific provision of the State	
	Letter/Petition, which will be used as a reference for the	
	suggested/affected PCAR provision. d) Automated identification of suggested / affected provision/s	
	of PCAR.	
	e) Provide portions for; (i) specific PCAR Provision to be	
	amended, (ii) RSDDproposed text, (iii) TWG input, and	
	(iv) Final Text.	
	f) Be able to generate printable Working Document and	
	Memorandum Circular.	
	g) Have the capability to store all documents related to the	
	amendment of PCAR.	
	• The module shall serve as a project management tool for	
	RSDD and TWG.	
	• The system should be able to track changes made in the	
	working document whichincludes all actions taken in every	
	use of the working document.	
	 Such other specifications necessary as determined by the and user that requirement differences and the existing 	
	end user that requires modification or alteration of the existing	
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2.2.2	AERODROME AND AIR NAVIGATION SAFETY OVERSIGHT OFFICE	
2.2.2.1		
۲.۲.۲.۱	AERODROME REGISTRATION, CERTIFICATION AND	
	INSPECTORATE DIVISION (ARCID)	

S	Safety Regulatory Audit and Inspection	
	ntroduction	
	Aerodrome Registration Certification and Inspection Division (ARCID) is the division in the Aerodrome and Air Navigation Safety Oversight Office (AANSOO)responsible for the oversight of all aerodromes in the Philippines.	
	ARCID is in charge of ensuring the safety oversight function of CAAP on the effective implementation of safety related standards through evaluation and assessment of aerodrome engineering and design specifications, obstacle control and height clearance requirements and permits, aerodrome safety management systems and safety programs, monitoring of aerodrome operational hazard reports, development of regulations and standards and conduct of associated inspections and surveillance, and collection and analysis of safety data in accordance with CAAP regulations and ICAO SARPs.	
	It also ensures the safety oversight function of CAAP's effective implementation and surveillance of safety requirements for aerodrome licensing through aerodrome certification, registration and permit-to-operate including promulgation of aeronautical data in the AIP in accordance with CAAP regulations and ICAO SARPs.	
С	Documentations	
	ARCID-AANSOO develops an annual Surveillance Plan for implementation on the coming calendar year	
	ARCID-AANSOO issues notices to the respective service providers to be audited/inspected	
	ARCID-AANSOO uses the following documents to facilitate an audit/inspection:	
	 a. Checklist/Audit Questionnaire for evaluation; b. Forms for reporting on audit/inspection observation or non- compliances; 	
	 c. Findings Forms for the audited/inspected party to respond to auditor/inspector'sobservation or non-compliance; d. Documentation or recording of evidence to support 	
	 conclusions reached by theauditors/inspectors e. Feedback forms to be filled-up by the auditee/inspectee for improvement of ARCIDaudit/inspection processes from pre- 	
	activity up to submission of outputs(reports)	
2.2.2.2	AIR TRAFFIC MANAGEMENT SAFETY INSPECTORATE DIVISION (ATMSID)	
	Safety Regulatory Audit and Inspection	
Ir	ntroduction	
	ATMSID-AANSOO shall oversee the compliance of safety regulatory requirements and Standards provided by the ATM service providers (ATS, MET, SAR, AIS and PANS-OPS) through regular audits/inspections and announced or	
	unannounced surveillance inspections.	

	Audit and inspection are techniques employed by the ATMSID of AANSOO to verify compliance with applicable safety regulatory requirements and standards by the ATM services providers in conformance to ICAO SARPs. Audit and inspection are tools for evaluating the performance of the ATM services providers with a view to ensuring ATM system safety.	
	ATMSID-AANSOO carries out various safety survey activities including surveillance (audits/inspections) on a regular basis (periodically) as part of its regulatory function and as a means of proactive safety management.	
	For this periodic surveillance activities, ATMSID-AANSOO develops annual safetyregulatory audit/inspection plans based on the ATM Services/Units risk profiles to cover all possible areas of safety concern, while prioritizing activities to where safety risk is determined to be of utmost concern-(Risk-Based Surveillance)	
	Surveillance activities may also be conducted consequent upon significant changes in the ATM service providers' system, follow-up on corrective actions which have been imposed in previous audit or inspection and safety investigations.	
	ATMSID also monitors the safety performance of service providers' Safety Management Systems (SMS). To accomplish this task, ATMSID relies on accurate, validated safety data/ information appropriately sorted using ICAO recommended taxonomies. The safety data/information includes, but not limited to, hazards, accidents and incidents, safety risk assessments, safety recommendations, Safety Performance Targets (SPTs) and Safety Performance Indicators (SPIs). The task aims to provide data-driven recommendations to the Director General as to actions to be undertaken to ensure or enhance safety in aircraft operations.	
	PANS-OPS Inspectorate, under the ATMSID, also provides recommendations to the DG regarding issuance of Authorizations for Instrument Flight Procedure Design Organizations intending to provide services within the Manila Flight Information Region (FIR) including aerodromes operating in the Philippines.	
	Lastly, all air routes (Airways, Arrival Routes, Departure Routes, Final Approach Paths, Missed Approach Paths and holding Patterns) to be used for air operations in the Philippines needs to be assessed by the AANSOO prior to approval by the DG for use and/or publication.	
Do	ocumentations ATMSID-AANSOO develops an annual Surveillance Plan for implementation on thecoming calendar year at least 3 months before current year ends.	

ATMSID-AANSOO issues notices to the respective service providers to be audited/inspected, at least 1 month prior the service of the service o	
scheduled activity for audit and at least 2 weeksprior inspectio	n.
 ATMSID-AANSOO uses the following documents to facilitate audit/inspection: a. Checklist/Audit Questionnaire for evaluation; b. Forms for reporting on audit/inspection observatior non-compliances; c. Forms for the audited/inspected party to respond auditor/inspector's observationor non-compliance; d. Documentation or recording of evidence to suppor conclusions reached by the auditors/inspectors e. Feedback forms to be filled-up by the auditee/inspectee for improvement of ATMS audit/inspection processes from pre-activity up 	n or to ort he ID
submission of outputs (reports).	
For audits, ATMSID-AANSOO normally provides the audite party with a copy of the checklists two weeks before the fi day of audit or during a pre-audit meetingduring the first day audit (Entry Meeting), and takes measures to protect a working documents that involve confidential or proprieta information.	rst of ny
After audit/inspection or safety investigation, ATMS prepares audit/inspection or inspection report. An interim aureport, containing findings form should be submitted at least provided to the auditee, 10 working days after the conclusion the on-site/remote audit activity. 10 working days, after that the same findings form should be submitted by the auditee wildetails on the corrective action plans to be undertaken address the findings with the position/name of the persoresponsible for implementation and target date of completion. Another 10 working days after which, the final audit report for should be submitted by the audite by the audite by the audite by the audite by the audit team containing comments acceptance of the auditee's corrective action plans. This fir report shall be the basis of the subsequent audit/inspection activity for the auditee with the aim to verify effection implementation of the agreed/accepted corrective action plans.	dit be nof at, ith to on on. rm or nal on ve
For Procedure Design Organization Authorizations, a checkl for evaluation of the applicant's suitability to provide service in accordance to national regulations is required. Up submission of complete documentary requirements (letter intent, Manuals, evidence of appropriate aviation experience certificates issued by other States or internation organizations, training records, etc.) a Certificate Authorization with/without imposed conditions will be issued the DG upon recommendation of ATMSID-AANSOO.	es on of ce, nal of
For Instrument Flight Procedure (IFP) approval, a checkl focusing on the required quality assurance process conducted by the design organization is employed to asse suitability for the use and/or publication of the IFP.	es

2.2.2.3	AIR NAVIGATION SAFETY INSPECTORATE DIVISION (ANSID/CNSSID)	
	Safety Regulatory Audit and Inspection	
	Introduction ANSID/CNSSID-AANSOO oversees the compliance of safety regulatory requirements and standards provided by the CNS service providers through regular audits/inspections and surveillance inspections.	
	Audits and inspections are oversight activities conducted by ANSID/CNSSID to verify whether the CNS service provider complies and is able to maintain compliance with the applicable regulatory requirements and standards in consonance to ICAO International Standards and Recommended Practices (SARPs). Audits and inspections are a means for evaluating the performance of CNS services in order to ensure aviation safety.	
	ANSID/CNSSID carries out various safety oversight activities including air navigation facility certification audits and surveillance inspections as part of its regulatory function. Further, this is to ensure that requirements for flight inspection are established and periodic flight inspections are provided for radio navigation aids, communications systems, and surveillance systems, and that the result of these flight inspections are verified.	
	ANSID/CNSSID develops annual surveillance audit/inspection plan for the periodic inspection of all ground-based air navigation facilities operated and maintained by CNS service providers within the country.	
	Surveillance activities may also be conducted whenever an air navigation facility is suspected to have contributed to an aviation accident or incident, or whenever significant operational changes of an air navigation facility occur, or whenever a corrective action implemented by the CNS service provider to address regulatory noncompliance needs to be validated.	
	ANSID/CNSSID also monitors the safety performance of the CNS service providers'Safety Management Systems (SMS). To accomplish this task, ANSID/CNSSID relies on accurate, validated safety data/ information appropriately sorted using ICAO recommendedtaxonomies. The safety data/information includes, but are not limited to, hazards, accidents and incidents, safety risk assessments, safety recommendations, Safety Performance Targets (SPTs), and Safety Performance Indicators (SPIs). The monitoring aims to providedata-driven recommendations to the Director General to determine the actions to be undertaken to enhance and ensure aviation safety.	

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	Documentations ANSID/CNSSID develops an annual Surveillance Plan for implementation on the preceding calendar year. ANSID/CNSSID issues notices to the respective service		
	providers to be audited/inspected prior to the schedule of the activity except during unannounced inspections.		
	ANSID/CNSSID uses the following documents to facilitate an audit/inspection:		
	a. Certification Checklist/Surveillance Checklist for evaluation;		
	 b. Forms for reporting non-compliances with the regulation or regulatory standard; c. Forms for the audited/inspected party to respond to 		
	auditor/inspector's non-compliance; d. Documentation or recording of evidence to support		
	conclusions reached by theauditors/inspectors e. Feedback forms to be filled-up by the audited party to evaluate an inspector's performance and improve ANSID/CNSSID audit/inspection process.		
	ANSID/CNSSID normally provides the audited party with a copy of the checklists prior to the audit/inspection. Whenever it is determined that there are no means of providing the checklist in advance, a copy is provided only during the Entry Briefing/Meeting on the first day of the inspection/audit activity. ANSID/CNSSID takes measures to protect any document that contains confidential or proprietary information.		
	A final report is prepared by ANSID/CNSSID after each audit/inspection activity. The report includes the findings form within which the audited party is required to indicate the proposed corrective action plans that will address non- conformance with the regulation as well as the targeted time frame to implement the action plan. This report shallbe the basis of the subsequent audit/inspection activity with the aim to verify whether the agreed/accepted corrective action plan has been effectively implemented.		
2.2.2.4	REGULATORY SAFETY STANDARDS DIVISION (RSSD)		
	The Regulatory Safety Standards Division (RSSD) is mandated to ensure that ICAO Standards and Recommended Practices (SARPs) stipulated in Annexes 2, 3, 4, 5, 10, 11, 12, 14, 15, and 19 are regularly monitored so that applicable provisions are adopted and incorporated in the Civil Aviation Regulations - Air Navigation Services (CAR-ANS) and Civil Aviation Regulations governing Aerodromes and Manual of Standards.		
2.2.2.5	EXPECTED OUTPUT AND FEATURES OF THE SYSTEM		
	ANSID, ARCID & ATMSID		
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inspectors in manager processing collected inspection reports, assessments, and monitoring of the th Aerodromes, ATM & safety risk profiles.	should aid the ANSID, ARCID & ATMSID ging safety oversight activities and data and information (e.g. audit and safety occurrence reports, safety investigation reports) and effective nee Divisions' surveillance activities, ANS facilities' safety performance and	
with the safety a audit/inspection pla audit/inspection activit data; (4) managing submission of feedbac	audit/inspection activities during (1) anning; (2) implementation of ies; (3) analysis of inspection/audit result corrective actions plans; and (5) ck over the corrective actions and closure the following functionalities:	
facilitate the registrat air navigation service	Facility Registration: The system should tionand management of aerodromes and e (ANS) facilities, including their contact information, and regulatory compliance	
the conduct of safety	and Auditing: The module should support assessments and audits of aerodromes to ensure compliance with safety atory requirements.	
enable the plannin aerodromes and	and Scheduling: The system should ag and scheduling of inspections for ANS facilities, including assigning g inspection criteria, and tracking	
mechanism for th occurrences related	Reporting: The module should provide a e reporting and tracking of safety d to aerodromes and ANS facilities, vestigation and appropriate follow-up	
monitoring and track	oring: The system should allow for king the compliance of aerodromes and safety regulations, standards, and ices.	
the management an from safety assess	anagement: The module should facilitate d tracking of corrective actions resulting sments, audits, inspections, or safety ations, ensuring timely resolution and issues.	
the monitoring and a and trends for aero	Monitoring: The system should enable analysisof safety performance indicators odromes and ANS facilities, providing a safety improvement measures.	
should provide a managing relevant	d Record Management: The module centralized repository for storing and documents, manuals, reports, and rodrome and ANS oversight activities.	
	and Collaboration: The system should ommunication and collaboration between	

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	the Aerodrome and Air Navigation Safety Oversight Office	
	and the relevant stakeholders, including aerodrome	
	operators, ANS service providers, and regulatory bodies.	
	Reporting and Analysis: The module should generate	
	comprehensive reports and analysis on safety oversight	
	activities, including audit findings, inspection results, safety	
	occurrence trends, compliance status, and overall safety	
	performance of aerodromes and ANS facilities.	
	Integration with Other Modules: The SOMS should integrate	
	with other modules within the Safety Oversight	
	Management System, such as the Training and	
	Certification Module and Regulatory Compliance Module,	
	to ensure data consistency and streamlined processes	
	across different functions.	
	Hence, the following features should be available in the SOMS:	
	1. The system should be available online and offline. System	
	access must be controlledaccording to user levels in CAAP.	
	2. The system should be able to view business	
	letters/correspondence format ready for inputs of details and	
	printing.	
	3. The system should be able to provide AANSOO's	
	Division' work plan, recording andtracking/alerting:	
	a. The system should be able to generate the audit schedule	
	where the status of each activity is shown whether it was	
	conducted or cancelled to ensure that the inspectors are	
	kept updated on the upcoming audit activities and for	
	history tracking.	
	b. The system should also have the capability to provide	
	tracking information on sent/acknowledged notices,	
	submitted Corrective Action Plans (CAPs), safety	
	assessment reports, and audit/inspection reports and	
	should have an alarm feature or notification system to	
	ensure timely submission of notices/reports and to prevent	
	missing reports.	
	c. The system should be capable of providing alerts on areas	
	of non-conformance, compliance and adherence as	
	appropriate.	
	d. The system should be able to track approved Instrument	
	Flight Procedures (IFPs) that have reported issues during	
	implementation, the year the IFP have been effective and	
	send alerts at least 6 months before its required periodical	
	review, 5 years after date of effectivity.	
	4. The system should be able to provide a data storage capacity	
	enough to accommodate forthe next 20 years.	
	The system should have a page that contains graphical	
	presentation of the audit compliances, findings and OHRs;	
	statistics of audit/inspection report status, surveillanceplan	
	updates, notices sent/acknowledged, CAPs status, safety	
	recommendation implementation status, safety assessment	
	report status; aeronautical studies report status; tabular	
	presentation of top performing facilities, for AANSOO	
	Division's and AANSOO management. The findings and	
	deficiencies identified per audit/inspection areas should also	

		,
	be collated for better analysis and informed insights on which areas have the most findings and make data-driven decisions to resolve such issues.	
5.	The system should be able to allow service providers on-line submission of CAPs/ safety recommendations and progress of CAPs/ safety recommendations and may attach evidenceto be assessed by the inspectors.	
6.	The system should have a separate page for access by the service provider responsible personnel, for on-line self-assessment checks.	
7.	The system should have a Performance Monitoring capability where the status of the safetycompliance as well as the safety occurrences reported are prioritized for action.	
8.	The system should be able to generate standard form audit/inspection reports showing all the necessary information on audit/inspection/occurrence reports. It should aldo be capable of generating a summary report containing all the important information so that the inspectors can save time from reading the entire report and there should also be an option to view the entire report and print, download or email it in accordance with user level authorization. There should be search button/option to easily locate the report needed and to track all the surveillance activities conducted for a particular facility.	
9.	The system should also be capable of prompting among the AANSOO divisions (ARCID, ATMSID, CNSSID and RSSD) whenever the identified finding is connected to their division for collaborative resolution of safety issues.	
10	The system should be capable of generating statistics and trends of frequently reported OHRs for better analysis.	
11	. The system should be capable of issuing AANSOO Divisions' certificates, approvals, acceptance and authorizations (ex. Certification, Registration Type 1 and 2, PTO, SMS, third-party approvals) with security features	
12	. The system should also have contact details of the Aerodrome Operators, ATM and CNS Facilities' key personnel and library of the updated versions of Audit and Inspection Checklists (inspector's toolkit containing checklists and forms used on audits/inspections), related documents (CAR-Aeroromes, CARANS, MOS Aerodromes/ATS, Handbook and Manuals, ACs, MCs, Safety Directives and ICAO references).	
	. The system should also have an archive page where records of schedules and trackers of the previous years can be generated for monitoring and history tracking purposes. This canbe used as evidence to ICAO audits to easily show that surveillance activities are conducted according to the surveillance plan and it can also aid the inspectors in designing the surveillance plan in a way that cancelled activities are easily identified. The system shouldalso have an archive page where all versions of aerodrome operators manuals and submanuals, OLS, safety assessments and other documents.	
14	. The system should be capable of archiving/uploading and updating training records of Inspectors, and inspectors'	

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	profile	
	15. The system should have dedicated trained personnel (from system provider) for the regularcomprehensive maintenance	
	and troubleshooting assistance.	
	16. The system should be capable of modification/customization that shall include updates in accordance with the ICAO	
	requirements, system enhancements and new features, if	
	needed	
	RSSD	
	Standards and Regulation Development and Amendment or Revision	
	The system should come up with a module capable of online	
	collaboration with the concernedTechnical Working Group (TWG) and the Regulations Review Committee (RRC) in the development	
	and amendment or revision of regulations and standards. The	
	module should:	
	a. Clearly indicate the Civil Aviation Regulations (CAR) and Manual of Standards (MOS) with a subject overview.	
	b. Convert the State Letter/Petition from PDF to Word file format.	
	c. Provide a portion for the specific provision of the State	
	Letter/Petition, which will be used as a reference for the suggested/affected CAR and MOS provision.	
	d. Automated identification of suggested/affected provision/s of	
	CAR and MOS	
	e. Provide portions for; (i) specific CAR and MOS Provision	
	to be amended, (ii)RSSD proposed text, (iii) TWG input, and (iv) Final Text.	
	f. Be able to generate printable Working Document, Memorandum Circular andAdvisory Circular.	
	g. Have the capability to store all documents in a consolidated	
	version or edition/issue related to the amendment and/ or revision of CAR and MOS.	
	The module shall serve as a project management tool for	
	RSSD, TWG and RRC.	
	The system should be able to track changes made in the working document whichincludes all actions taken in	
	 every use of the document. Such other specifications necessary as determined by the 	
	end user that requires modification or alteration of the	
	existing system upon procurement.	
	Aviation Data Management	
	Aviation Data Management Safety Data Collection and Analysis	
	The system should be capable of risk profiling from the	
	encoded Safety Reports of the SDCPS and Safety Issue	
	found during audits and inspection as part of the oversight function of CAAP	
	The system should preferably be compatible with the latest	
	and applicable version of ECCAIRS of the ICAO	
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	System needs to have an SDCPS (Safety Data Collection and Processing System) Reporting gatekeeper	
	The system should be capable of being securely linked/shared to service providers/operators or other offices performing oversight functions for them to input data. The system should be equipped with electronic forms that	
	could enable an efficient collection of data.	
	The system should be capable of extensively tracking incidents and near miss reporting, investigation, and action tracking	
•	The system should be capable of classifying and categorizing the different risks as per SMICG Hazard Taxonomy	
	The system should be capable of generating statistics and other data driven facts out of the collated aviation safety related data	
	The system should be capable of creating a notification or alert on threshold breachesto prevent or mitigate events.	
•	The system's risk management should have a wide ranging intuitive and highly visual risk management capability.	
•	The system should be able to securely store the voluminous data stored in the SDCPS.	
	The system should be capable of reporting, business intelligence (BI) Anticipative risk and performance management. Able to generate automatic tables, graphs and pie chartsas dashboards with regard to any possible queries for summary analysis reports.	
	The system should be capable to accept Operational Hazard Reports (OHRs), safety observations and reports including Wildlife Hazard issues and management and consolidate all this information, generate search options, tracking, statistics, trending and summary reports	
	ical Library	
office docur	echnical library is an important office of the AANSOO. This is responsible for storing reference materials and audit nents used by AANSOO personnel in their dailytasks. The ier should be able to develop a software that is:	
•	Capable of offline accessibility; Capable of offline accessibility;	
	Capable of assigning different levels of access and security feature depending on the classification of the document.	
•	Capable of securing and encrypting voluminous aviation related data;	
	Capable of being linked into the official website of the Authority;	
•	Capable of being linked in other 3rd party service providers or website that may be used as reference materials and technical guidance	

1	• The system should be capable of instant end-to-end	
	publishing of manuals, notices and forms. The CAAP	
	personnel should be able to navigate large documents	
	using visual chapter overviews and smart modules for	
	cross-reference links, revision highlights, aswell as a table of contents and alphabetical indexes.	
	 The system should be capable of Automatic Compliance Monitoring. 	
	 The system should have the capacity to efficiently transfer data. 	
	 The system should be equipped with security features for the safe keeping of aviation related documents 	
	 Such other specifications necessary as determined by the end user that requires modification or alteration of the existing system upon procurement. 	
	For Safety Concerns Database	
	The system should be able to link, integrate and utilize data archived within the organization	
	 System should be capable of integrating options of the SDCPS 	
	 The system should be capable of performing Audit Management from scheduling toClosure 	
	 The system should be capable of managing non- conformance, corrective and preventive actions 	
	 The system should be able to store Audit and Inspection findings made by AANSOOInspectors 	
	 The system should be able to generate risk profile from amongst the Service Providers/Operators audited and inspected. 	
	 The system should be able to generate trends and Analysis (Tables, graphs) dashboards 	
	 The system should be capable of modification/ customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed 	
2.3	customization that shall include updates in accordance with the ICAO requirements, system enhancements and	
2.3 2.3.1	customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed	
-	customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed DETAILED SPECIFICATIONS	
-	customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed DETAILED SPECIFICATIONS Licensing- Flight Crew	
-	customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed DETAILED SPECIFICATIONS Licensing- Flight Crew Background Definition Data The system should be able to handle following background	
-	customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed DETAILED SPECIFICATIONS <u>Licensing- Flight Crew</u> Background Definition Data The system should be able to handle following background definition data: • The examinations (theoretical and flight examinations) and	
-	customization that shall include updates in accordance with the ICAO requirements, system enhancements and new features, if needed DETAILED SPECIFICATIONS Licensing- Flight Crew Background Definition Data The system should be able to handle following background definition data: • The examinations (theoretical and flight examinations) and the conditions fortheir assignment	

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	modules, free texts and check list to components	
	• The ratings and the conditions for their assignment. Ratings are described by their types (class or type), number of pilots, number of engines and a category.Ratings can have a validity, whereas we distinguish between the VFR and IR- validity.	
	The Rating groups	
	 The flight experiences (defined by the respective activity and the minimal requirements) 	
	The layout of a license within a well-defined frame	
	 Charges (for automatic assignment of activities of the end user to charges for the pilot) 	
	Examiner authorizations	
	The background data are the basis for assigning entries to a pilot's	
	license. The possibility of creating specific – configurable - rule trees for ratings and components is a much-desired feature. These condition trees should model ICAO and national regulations (on flight crew / examiners / instructors) rules. Thecondition trees are defined per type of application (initial, renewal, conversion, etc) and should be checked when assigning the respective type of application to thepilot. A warning should be displayed in case not all conditions have been met.	
	The following items should be defined within a condition tree:	
	\circ The pilot's age limits	
	 Necessary medicals 	
	 Necessary flight experiences 	
	 Necessary examinations 	
	 Necessary flight examinations 	
	 Necessary instructor components 	
	 Necessary examiner components 	
	 AND-conditions, which can include various conditions themselves too 	
	$\circ~$ OR- conditions, which can include any conditions too	
	Also, the system may be able to define relevant data for billing, such as:	
	 Theoretical examinations 	
	 Practical examinations 	
	\circ The initial acquisition of components / ratings	
	\circ The renewal or revalidation of components / ratings	
	○ Etc	
	The fees shall be defined through the background definition data of thecorresponding component or rating.	

Management of Flight Crew
The application should model the complete life cycle of a flight crew member. CAAP needs to use a module handling the requirements according to PCAR Part 2 and/or applicable regulations. A person (to whom we refer as "License holder") may have several licenses, one of each type. Assigning individual entries occurs by selection of the various subjects of the background definition data.
The data managed for each flight crew member should comprise:
 The basic data from the address and contact data base (personal data such as name, address, picture, signature)
 The basic data from the licensing system (pilot status, authority / examiner / authority status,)
 The examinations (e.g. with date and result. For theoretical examinations score, for flight examination rating data, IR data, pilot function, etc.) The flight instructor and examiner should be specified. These entries should be checked for plausibility and a connection to the flight school should be implemented in order to check the authorization. Further rules may be checked during the assignment of examinations (such as maximum time passed between examinations, maximal number of repetitions, maximal waiting period, examiner and flight instructor being the same person, etc.) The medicals. The basic data should be for instance date of examination, class, name of the physician, diagnosis, validity, visual aid. The data can be taken over manually and
 automatically from the medical examination module. The flight experiences. The requirements for the experiences will be defined in the background definition data and the system controls that the requirements arefulfilled.
 The components (licenses and extensions). Name, date, status, validity, limitations and license remarks are collected. The rules tree will be checked when assigning a component. It should also be possible to assign a component or a rating without checking the rule tree. The system has to calculate the validity dates as well.
 The ratings (class- and type authorizations). The rule tree shall be checked uponassignment of a rating as well. Ratings shall be auto-revalidated when possible and the cross- crediting should be implemented too.
 The license history (displaying the issued licenses through the whole life cycle) Other criteria specified by the CAAP.
By means of a rule tree we shall be able to define which pre- conditions a pilot must fulfil in order to qualify as a flight instructor or examiner for an examination.
Rule Checks

e system should check several items during the work.	
Check of flight schools (if applicable) during entry of pilot examinations	
Check of flight instructors during entry of pilot examinations	
Check of examiner during entry of pilot examinations	
Check of aircraft registration during entry of pilot examination	
Check of national regulation / rules (numbers and timing) during entry of pilot examinations (especially theoretical examinations)	
Check of groups of persons or organizations who have the permission to approve flight experiences	
Automatic assignment of a rating if the rating is part of a components examination and the component was performed on a rating and the condition tree of the rating is fulfilled	
Automatic question if component-rating combinations come up	
nal Cross-Check The system shall check cross referenced data. During pilot data entry - the examiner and instructor may be checked in thesystem. Same for flight school within the approval module for flight schools	
For skill test: aircraft in aircraft register or Flight Simulation Training Device(FSTD) in the appropriate module	
following features may be integrated in billing preparation: Automatic and manual creation of a billing statement Export of billing statement information to an external billing system Listings of open invoice/billing statement Feedback about invoice/billing statement status Configuration of rates for several activities in the background definition data List of billing statements Groups of persons without charges	
У	
e user shall be able to view the history of changes on the ekground definition data. He can evaluate the data according a range of filter criteria, which will sort the data accordingly.	
ble range of filter criteria (type of change, date of change, user ne, and action) is available to sort the history data accordingly. history function shall register all data changes (also the	
orting and Printing	
e system shall allow searching for specific fields (user figurable). These are for example: pilots' examinations, nponents, ratings etc. The result lists can be printed or	
	Check of flight schools (if applicable) during entry of pilot examinations Check of flight instructors during entry of pilot examinations Check of examiner during entry of pilot examinations Check of aircraft registration during entry of pilot examination Check of national regulation / rules (numbers and timing) during entry of pilot examinations (especially theoretical examinations) Check of groups of persons or organizations who have the permission to approve flight experiences Automatic assignment of a rating if the rating is part of a components examination and the component was performed on a rating and the condition tree of the rating is fulfilled Automatic question if component-rating combinations come up nal Cross-Check The system shall check cross referenced data. During pilot data entry - the examiner and instructor may be checked in thesystem. Same for flight school within the approval module for flight schools For skill test: aircraft in aircraft register or Flight Simulation Training Device(FSTD) in the appropriate module rg following features may be integrated in billing preparation: Automatic and manual creation of a billing statement Export of billing statement information to an external billing system Listings of open invoice/billing statement status Configuration of rates for several activities in the background definition data List of billing statements Groups of persons without charges y e user shall be able to view the history of changes on the karge of filter criteria, which will sortthe data accordingly. a change history of a pilot's data can be traced as well. A ble range of filter criteria (type of change, date of change, user ne, and action) is available to sort the history data accordingly. a history function shall register all data changes (also the vious content), bothaddress data and pilot specific data.

exported (as PDF files, template letter, Excel-list or label print).	
Licenses should be printed directly and viewed in a preview first. The same appliesfor license confirmations. We should be able to configure license layout on our own.	
 Also we expect a report tool to generate and store own queries on the database.	
Interface to Examination System	
Once an examinee has booked an examination, it can be transmitted automaticallyto the system.	
Management Information	
The system should store important information about the license information of a person at the database. Example: Basic data of the license, validity of the medical, ratings and special authorizations.	
WEB-Client	
Access for license stakeholders	
 External Persons shall be able to self-register Access to the licensing personal information should be possible (configurable content) Download of applications shall be possible (PDF) format, 	
 partially pre-populated with data of the applicant Uploading of applications (PDF) and attachments shall start a configurable workflow within the CAAP The web user shall be able to see the status of the workflow via 	
WEB client	
Add Endorsements:	
The system should support the ability of an authorized examiner to endorse a pilot's license via the WEB client. For this purpose, the authority defines which privileges can be endorsed by examiners. The examiner enters the results of assessments that are required prior granting the endorsement.	
The software checks whether the examiner is entitled to confirm each assessment and whether the pilot has met all the requirements for the endorsement. The endorsement is granted only when all the above checks weresuccessful.	
Flight Test Management:	
The system shall support the ability of an authorized examiner or other privileged persons (e.g. Designated Check Airman) to notify flight tests and report their results via the WEB client.	
For this purpose, the authority configures the flight tests with their prerequisites and any additional privileges to be granted to the candidate once he passed the flight test.	
The candidate will be informed via e-mail about the notification of a flight test. The examiner enters the results of flight experience that is required prior to taking the flight test and subsequently the results of the flight test itself.	
The software checks whether the examiner is entitled to act as an examiner for the flight test and whether the pilot meets all the	

requirements for being grantedany of the privileges. Only then, the pilot is granted the type of rating he took the flight exam on and any additional privileges the authority configured and the examiner decides to grant in addition. Workflows are being started to inform the authority of success or failure.	
Licensing - Maintenance Personnel	
CAAP needs to use a module handling the requirements according to PCAR Part 2 and/or applicable regulations. The whole management of the relevant data (life cycle) of maintenance personnel shall be kept. A person (to whom we refer as "License holder") may have several licenses, one of each type. Just like the flight licensing module this application should implements rules checks as well.	
This application shall also differentiate between two areas: management of background definition data and the personnel's data.	
Searching and assigning attributes to a license holder should be the same as described for flight crew licensing module.	
C C	
 Licenses, which include but not limited to: 	
 Personal data including picture and signature 	
 Categories, to which ratings and even limitations can be assigned 	
 Limitations applied on the whole license 	
flight crew licensing module. The interface to the examination system should be implemented for exchanging address data and examination results.	
Also, the history function and billing shall be identical as flight crew license.	
Licensing – Others including Air Navigation Services	
CAAP needs to use a module handling the requirements according to PCAR Part 2 and/or applicable regulations. The whole management of the relevant data (life cycle) of air navigation personnel (ATC – air traffic controller and ATSEP – Air Traffic Safety Electronic Personnel) shall be kept. A person (to whom we refer as "License holder") may have several licenses, one of each type. Just like flight crewlicensing and maintenance personnel this application shall implement rules check too.	
This application shall also differentiate between two areas: management of background definition data and the personnel's	
	the pilot is granted the type of rating he took the flight exam on and any additional privileges the authority configured and the examiner decides to grant in addition. Workflows are being started to inform the authority of success or failure. icensing - Maintenance Personnel CAAP needs to use a module handling the requirements according to PCAR Part 2 and/or applicable regulations. The whole management of the relevant data (life cycle) of maintenance personnel shall be kept. A person (to whom we refer as "License holder") may have several licenses, one of each type. Just like the flight licensing module this application should implements rules checks as well. This application shall also differentiate between two areas: management of background definition data and the personnel's data. Searching and assigning attributes to a license holder should be the same as described for flight crew licensing module. A license holder can have the following features: • Address data from the address management • Examinations • Skill Test • Billing Management • Licenses, which include but not limited to: • Personal data including picture and signature • Categories, to which ratings and even limitations can be assigned • Limitations applied on the whole license Reporting, printing and web-client features should be similar to flight crew licensing module. The interface to the examination system should be implementedfor exchanging address data and examination results. Also, the history function and billing shall be identical as flight crew license. CAAP needs to use a module handling the requirements according to PCAR Part 2 and/or applicable regulations. The whole management of the relevant data (life cycle) of air navigation personnel (ATC – air traffic controller and ATSEP – Air Traffic Safety Electronic Personnel) shall be kept. A person (to whom we refer as "License holder") may have several licenses, one of each type. Just like flight crewlicensing and maintenance personnel this application shall impleme

	Searching and assigning attributes to a license holder shall be the same approach asdescribed for flight licenses.	
	 A license holder can have the following features: Address data from the address management Skill Test 	
	 Skill rest Licenses, which include but not limited to: 	
	 Personal data including picture and signature Ratings 	
	Experiences	
	Endorsements	
	 Unit Endorsements Language Endorsements (if applicable) 	
	Print history of the license	
	Etc As with the maintenance personnel module, this application shall	
	be able to managemultiple licenses (national and international) for each person in parallel.	
	Printing, reporting, web-client features, billing and history should be identical toflight crew licensing.	
2.3.4	Medical Examinations	
	CAAP needs to use a module handling the requirements according to PCAR Part 2and/or applicable regulations. Medical Examiners perform medical fitness checks for airmen. They should be able to fill out the applicable forms electronically and communicate with the CAAP - Office of the Flight Surgeon and Aviation Medicine(OFSAM). OFSAM should be able to screen and decide finally about the examinations.	
	CAAP expect the following features of the medical application to leave the following features:	
	 Calculating all necessary examinations and computing the validity of the medicals (even for different kind of examinations of each person at a certain examination date) 	
	 Modelling an airman's Entire medical examination history 	
	 Multi-user application: several persons can work on a pool of applicants via ashared "to-do-list" 	
	 System rights to model different end-user roles with dedicated permissions within the system 	
	 Access to complete history for authorized personnel as well as grant read rights to other personnel to give access to historical data. 	
	 Numerous plausible checks for completeness and dependency of the medicalforms 	
	 Re-use availability of old / previous data prior examination 	
	 Pilot can fill in own application form electronically 	
	 Integration of data from external equipment (files like PDF etc.) 	
	\circ Automatic data transfer from extended forms to medical	

	examination report	
	 Printout of all forms and certificates completely filled in 	
	 Printout of several different medical certificates per person 	
	 Modelling specific work flows: expert consultation, temporary unfitness, unfitness, interim, allocating read-rights on certain examinations to other physicians, further transfer, transfer back (reject), etc 	
	 Integration of experts. Experts can execute special examinations prior to a medical fitness check. Aviation medical supervisor can decide to use expert examinations at a later medical examination 	
	 Encrypted saving of all medical data 	
	 Warning system via screening report 	
	 Automatic screening including pre-sorting the examinations for the medicalexaminer based on a configurable threshold value model 	
	 Aviation medical supervisor can declare applicants as fit, unfit, suspicious, reject cases, forward cases for evaluation 	
	 Aviation medical supervisor can also change limitations of an applicant and canre-print the medical certificate with changed data 	
	"Red alert flag" for suspicious applicants (message of the medical examiner to the user opening a suspicious candidate)	
	\circ Ability to import or scan documents as part of the examinee file	
	 Aviation medical supervisor can "shift" examinations from one medicalexaminer to another 	
	 Interface to flight crew licensing, air navigation services and addressmanagement module. 	
	 Export of statistical data (anonymous medical data) 	
2.3.5	Approval and Certification of Organizations	
	A vital part of the desired solution is the integration with the address and contact database, allowing to access data of available organizations, or exchanging data with other modules. One feature will be the system's ability to model organizationhierarchies and distributed locations of companies. The module for approval shouldhandle auditing aspects as well as the relevant information for different certificates and the management of these.	
	The certification of organizations can be viewed from different aspects: Project Handling / Project Management 	
	 Different application areas Views on organization specific data Types of supported tasks for inspectors and office workers 	

	Certificates and approvals
	Audits
	Background definition data
С	ertification Project Management
	/e expect the support of the structured application process with the /stem.
	 he system shall have: Hierarchical checklist templates to define a typical certification process like the ICAO 5 Step approach with unlimited sub-steps Team definition with competencies Due dates for each step and sub-steps Document management integrated Hyperlinks to certificates, persons, companies, audits etc. Clearance needs to be documented Workflows should be triggered (configurable workflows, configurablesituations)
	Different Application Areas
	We expect handling of the different certificates, approvals and certification processwith audits and inspections. The modelling of the history of all certificate-relevantdata (in revisions); and audits and inspections play a main role. The system shouldbe modular, allowing potential extensions to other certification activities. We expect the handling of following application areas:
	 Air Operator Certificate (AOC) and Operations Specification
	 Approved Maintenance Organizations
	 Flight Schools
	 Maintenance Training Organizations
	 Dangerous Goods handlers
	 Aerodrome Certification, registration and permits-to-operate
	 PANSOPS approval
	 Air Navigation Facilities Certifications
	 Etc (in accordance with the Philippine Civil Aviation Regulations, CAR Aerodromes and CAR-ANS)

•	ecific Data of an Organization
0	Audit and Inspection reports
0	Approvals and Authorizations from CAAP
0	Foreign approvals (if applicable)
0	Document repository
0	Directory with amendments of expositions
0	Special management view on staff of a company (competent persons in variouspositions)
0	Hierarchical view of organization/sub-organizations (departments) and their appending certificates, audits in a tree. This tree can be filtered to hide irrelevant data.
0	The tree view should be switchable for different certificate types as documented necessary
0	Technical data of the certificate based on different certificate configurations (based on hierarchical rating system or special data screens for operations Specifications
Tas	sks of Inspectors and other safety personnel
Tas o	sks of Inspectors and other safety personnel Planning by schedule, company and personnel (planning calendar)
	Planning by schedule, company and personnel (planning
0	Planning by schedule, company and personnel (planning calendar)
0	Planning by schedule, company and personnel (planning calendar) Assignment of staff to specific organization Assignment of CAAP personnel to projects and relevant organizations (inspectors may attend to a fixed set of organization; inspectors are configured as users within permission management module).
0	Planning by schedule, company and personnel (planning calendar) Assignment of staff to specific organization Assignment of CAAP personnel to projects and relevant organizations (inspectors may attend to a fixed set of organization; inspectors are configured as users within permission management module). Assignment of organization representative and CAAP inspectors to audits.Appointments shall be synchronized
0 0 0	Planning by schedule, company and personnel (planning calendar) Assignment of staff to specific organization Assignment of CAAP personnel to projects and relevant organizations (inspectors may attend to a fixed set of organization; inspectors are configured as users within permission management module). Assignment of organization representative and CAAP inspectors to audits. Appointments shall be synchronized with appropriate email platform. Management of to-do lists with expiration date for inspectors (periods ofcertificates, deadlines of findings, views within the case management system)
0 0 0	 Planning by schedule, company and personnel (planning calendar) Assignment of staff to specific organization Assignment of CAAP personnel to projects and relevant organizations (inspectors may attend to a fixed set of organization; inspectors are configured as users within permission management module). Assignment of organization representative and CAAP inspectors to audits. Appointments shall be synchronized with appropriate email platform. Management of to-do lists with expiration date for inspectors (periods ofcertificates, deadlines of findings, views within the case management system) Planning and corrective overview of audits on a timeline
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 ○ Aircraft M/M/S 	
 Location 	
o Dates	
 Recommendation 	
 Certificate 	
 Projects 	
○ Findings	
 Others (if necessary) 	
Certificates	
Certificates for organizations must be administered and printed.	
Supported certificates shall be, but not limited to:	
• Air Operator Certificates (AOC) with (Operation Specifications, Aircraft Register Mark, AOC Extract per aircraft model), Maintenance System ApprovalStatement etc. Link of aircraft fleet with special authorizations / limitations to Aircraft Register. The system must cross-check aircraft register data and make problems visible. Fleet must be supported (standard configuration) or special configuration per aircraft. Also handling of related certificates like continuing airworthiness management organization.	
 Flight and Maintenance Training Organizations: Approval Certificates, Curriculums, Approvals and Recommendation Report, 	
 Approved Maintenance Organizations: Approval Certificate, Approval and Recommendation reports 	
 Aerodrome (Certification, Registration and Permit to Operate), PANSOPS, ANF Certificates 	
Certificate of Registration	
Aircraft Material Distributor Certificate	
Type Certificate/Validated Type Certificate	
Noise Certificate	
 Others (in accordance with the PCAR, CAR Aerodromes and CAR-ANS) andother rules mandated by the Authority) 	
Supported functions on certificates shall be:	
 Mapping of print templates (from a central template repository) to the specificapplication areas 	
 Generation of certificate documents 	
 Support for periods and certificates limited in duration 	
 Possibility to link certificates to projects (including definition of project team) 	
 Management of interdependencies of certificates (e.g. schedules to maincertificate) and required certificates 	

	I
 Management of complete certificate history (renewal, variations, changes,) 	
 Linking of audits to certificates 	
 Interconnection with data from other application modules (Type Certification, Aircraft Registration, Flight Schools (FCL)) 	
Audit Management	
An essential part of the solution is planning, carrying out and documenting audits/inspections and to track the findings. The following functions must be implemented for this purpose:	
 Detailed planning of audits and inspections (hierarchical regulations with articles, exposition chapters, aviation sectors or topic based), schedules and inspectors 	
 Distributed / partial audits with different scope but linked to one certificate 	
 Determination of participants on either / or both side (organization and CAAP) 	
 Categorization by "audit", "inspection", "follow-up audit" depending on the nature (and step) of the organization surveillance program 	
 Generation of cover letters (e.g audit initial letter, follow up letters, reports) 	
 Creation of an audit report after completion of audits, reflecting all events of theaudit. The report is processed in a template. Each application area can use its own templates 	
Creation of audit plan.	
 Preparation of check list or job aids, containing questions relevant to the plan. This setting must be done for each audit. A view of all possible questions is displayed, the user has an option to approve or deny the questions 	
 This check list can be exported, where the user can fill in the results with an offline client and re-load the data into the organization certification system (support of offline documentation) 	
 Assistance for corrective action plans and corrective actions (also available as web solution for the industry stakeholders) 	
 Automatic combination of several audit results into recommendation 	
 The responsible inspector and industry participant shall get notifications when certificates are due to expire or closing dates for findings are due. 	
 The software shall have a web based solution where responsible persons from industry can log in and upload corrective action plan / corrective action handling with documents attached. This activity shall trigger a task for the CAAP inspector to confirm or reject the action from the industry. E-mail notifications must be evident when CAAP made decisions. 	

Background Definition Data • Easy extensibility to new application areas and new kind of certificates • The certificates shall extend the function of the respective application area • In an administration task, the application may define the inspectors working onthe different application areas.
 certificates The certificates shall extend the function of the respective application area In an administration task, the application may define the
application area In an administration task, the application may define the
inspectors working on the different application areas.
To define which law articles and chapters of manuals from industry are relevantfor the application areas.
Definition of organization personnel filters; filter by positions that are of specific interest to an application area, e.g. quality manager, accounting manager
Setup and configuration of laws/regulations for different application areas
• Laws and regulations: a law can have a hierarchical structure by articles (paragraphs) with their titles and texts. This data will not be deleted; instead, it will be versioned (by changes) or set inactive (by removing without replacement).
Global question catalogue: we like to define the relation a question will have later on to a law's directive and regulations' chapter.
Import/Update interface for laws, regulations and questions
nagement of print templates
Set up and configure central print templates from the central repository
The system shall support certificates and their appendices, audit reports, recommendations and cover letters
The (super) user shall be able to adapt the print templates with ease
The user can select the respective print templates per application area
Printing should generate PDF files which cannot be modified by end users
Reports
There are many different requirements on queries for the daily work of inspectors and the requirements will vary over time. Rather than building a fixed set of predefined reports, the application should be able to use the functionality of the integrated modules and create filters to generate appropriate reports. Pre-defined reports shall be determined by CAAP upon implementation.
2.3.6 <u>Airworthiness</u>

Type Certification	
This system shall contain the complete management of data sheets and type certificates, the environmental certificates (noise and pollution) belonging to the type certificates and airworthiness directives referencing the type certificates.	
TCs/Validated TCs and TCDS	
The management of data sheets and type certificates is primarily based on some general data in the same way that other modules are based on their background definition data. Because of the large number of type must certificates, the first step must be arranging them in a hierarchically order, called group tree hereafter.	
 In this group tree the different types of aircrafts – airplanes, helicopters, gliders -, aircraft engines – pistons, turbines, jets - and propellers form the most upper level. Under these have any number of levels in the different groups and subgroups. The lowest level typically contains the current type certificates even though the assignment of type certificates is allowed in all levels. Further basic data shall be:	
 the holders of the type certificates 	
 the manufacturer of parts and appliances 	
 the parts and appliances themselves 	
 a configurable list of text modules for various tasks 	
The two main business objects data sheets and type certificates are generated by means of these basic data. The data sheet contains only few data like the identification number, the TC holder, issue number and date, issuing country	
The type certificate shall contain essentially more data. Beside the general data like name, type (aircraft, engine, propeller), category (airplane, glider, piston engine, jet engine,), serial number, ICAO identification, maximum, etc (Assigned basic data and life cycle data) that should be easy to manage.	
If the handled type certificate concerns a motorized aircraft (airplane, helicopter, motor glider) it shall be possible to define the corresponding engines. And if the defined engines are not jet engines, it shall be possible to define the corresponding propellers.	
Environment Certification	
 The generation of environmental certificates shall be possible.	

	Airworthiness Directives	
	The airworthiness directives shall contain some basic data like national ID, originalID, revision type and number, the description of the problem, the responsible authority, issue dates, etc.	
	Furthermore any groups of type certificates may be assigned to an airworthiness directive so that it is determined which airworthiness directives belong to which group of type certificates.	
	These data shall be used to generate reports through the system.	
2.3.7	Aircraft Registration	
	The system shall contain the complete management of all aircrafts registered in the Philippines including the whole life cycle of these aircraft.	
	Like in most other modules several data should be configured in the background definition tables by few authorized administrators:	
	all possible aircraft with addresses within the registered under the Philippines are predefined and potentially linked to the allowed amount of registration marks	
	all inspectors of the authority with their specified inspection scope and intervalof responsibility	
	 all inspectors and/or organizations (delegates) authorized by the authority with their specified inspection scope and interval of responsibility 	
	inspection cycles should determine the interval of inspections in the different inspection scopes	
	tool to plan and execute (checklist/findings) ramp checks	
	predefined lists of checklist for inspections	
	signatures of all users authorized to sign the board documents	
	 rate configuration for the determination of the yearly fee to be paid by the holderof an aircraft 	
	The whole life cycle of an aircraft shall be managed:	
	 Start of the life cycle by: reservation of a registration mark 	
	 Official full registration 	
	 Control of execution of all necessary inspections 	
	 Completion of all necessary inspections and take-over to an official fullregistration 	
	 Any suspensions, with or without reactivation 	
	o Deletion	
	Restart of life cycle	
	The main business object of this module shall obviously be the reserved or registered aircraft. This object shall contain a large	

hunch of our o	nd assigned data including:
	nd assigned data including:
0	Registration mark
0	Some dates of reservation, registration, deletion,
0	Type of ownership
0	Current and previous location
0	Aircraft address
0	Responsible inspectors
0	Complete history of all inspections
0	Administrative suspensions
0	Complete history of all owners ever involved (main and part) and holders (mainand part)
0	Complete history of all suspensions, their reasons and their date of start and end.
0	The assigned data from module Type Certification:
0	All-important data of the type certificate of the aircraft
0	The environmental certificate
0	The serial numbers and years of construction of all contained type certificates (the aircraft body, potentially the engines and propellers)
0	Data about standard category and special category (if applicable)
0	Complete history of all board documents.
0	Certificate of Registration
0	Temporary airworthiness certificate (if applicable)
0	Certificate of Airworthiness
0	Noise certificate
0	Confirmation of inspection
0	Permit to Fly
0	Environment Certificate
0	Export Certificate of Airworthiness
which date,	sy to determine who has created which certificate on when it was last printed. Furthermore, it shall be enerate a duplicate certificateif the original document
All printed bo	pard documents shall be saved as PDF documents easily reviewed and reprinted.
Complete his	story of all accidents an aircraft had, including: Date and location of accident
0	Flight crew involved
0	Consequences like damages on aircraft, injuries or death of passengers and/orcrew

	 Inspections executed thereafter 	
	 Information about insurances: 	
	 Insurance of aircraft 	
	 Insurance of passengers 	
	User may execute the calculation of the fees for all registered,	
	active aircrafts in thedatabase. After the calculation the user gets	
	a list containing all computed fees and the data of the aircrafts the	
	fees are based on. The user can check this listing and release it.	
	As consequence of release all calculated data will be formed to the corresponding billing statements. The system will then print	
	the billing statement.	
	The module must be able to generate various report as may	
	deemed necessary.	
	Aircraft Ownership	
	This module shall contain the complete management of the	
	aircraft ledger including primarily the whole life cycle of these	
	aircrafts within the ledger, the management of mortgages and	
	hire contracts.	
	It shall be easily configurable in the database which documents	
	have to be printed for each activity. Furthermore, there shall be	
	a configuration in the database which addressees will get which type of documents.	
	The main data view shall be concerned with the life cycle of	
	aircraft within the ledger. Normally each aircraft passes the steps	
	such as: "notification of entry", "application of entry", "notification	
	of cancellation" and "application of cancellation".	
	After the entry of an aircraft into the ledger the technical and	
	owner data of the aircraft (all these data are delivered by the	
	module Aircraft Registration) can be checked by the user.	
2.3.8	Flight Simulation Training Devices	
	We expect to handle the organizational and technical hierarchy	
	and distributed locations of a flight simulator operator. This	
	hierarchy shall include:	
	 the operator itself 	
	\circ the various sites (locations), where the flight	
	simulators are operated	
	 the flight simulators the variants of flight simulators simulating distinct 	
	ratings (e.g. A300, We expect to manage the audit of the operator like described in	
	We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings	
	We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings The authority shall be able to perform a technical evaluation of	
	We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings The authority shall be able to perform a technical evaluation of all variants of the flight simulator when the operator bought a	
	 We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings The authority shall be able to perform a technical evaluation of all variants of the flight simulator when the operator bought a flight simulator and applied for the evaluation. 	
	 We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings The authority shall be able to perform a technical evaluation of all variants of the flight simulator when the operator bought a flight simulator and applied for the evaluation. The system should support the documentation of findings, if any 	
	 We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings The authority shall be able to perform a technical evaluation of all variants of the flight simulator when the operator bought a flight simulator and applied for the evaluation. The system should support the documentation of findings, if any problems during the evaluation are found. The system has to be 	
	 We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings The authority shall be able to perform a technical evaluation of all variants of the flight simulator when the operator bought a flight simulator and applied for the evaluation. The system should support the documentation of findings, if any problems during the evaluation are found. The system has to be able to document due dates and to remind CAAP inspectors of 	
	 We expect to manage the audit of the operator like described in "organization approval requirements" with underlying laws, expositions, topics, questions, findings The authority shall be able to perform a technical evaluation of all variants of the flight simulator when the operator bought a flight simulator and applied for the evaluation. The system should support the documentation of findings, if any problems during the evaluation are found. The system has to be 	

	The system should be able to track the complete history of a flight simulator (including selling and moving of the device).	
	To ease the operation the system should be able to handle	
	various types of flight simulators and support the end user in	
	copying migrating/transmitting the data between them.	
	The system has to keep the relevant data of the flight simulator, also the necessarytechnical data.	
	The evaluations of a flight simulator shall be handled in projects.	
	The project consists of basis data, participants and several	
	timetables. Each timetable can consist of basic data and	
	participants. The user can attach projects to operators, sites,flight simulators or variants.	
	The system has to generate the evaluation report (via a template)	
220	Workflow Management	
2.3.9		
	The system shall have built in workflow management system. Each user shall havetask lists gathering individual and group tasks. The system shall have a graphical designer tool to create and modify workflow templates and the possibility to execute the	
	workflows directly after design.	
	The workflow tool shall have the functionality to be triggered from	
	external sources, from document uploads (via web client),	
	manually or via a web service (external triggers). The system shall work as data storage for documents and data (configurable content of data fields) till the workflow finishes. The history of eachworkflow with all steps performed shall be documented.	
	The workflow shall have an import / export interface to transfer	
	workflow templatesbetween test and production environment.	
	Workflow can help to establish well defined processes guiding people to accomplish recurring tasks in a reproducible way.	
	Workflow designers shall create workflow templates by defining a chain of tasks /or parallel tasks that need to be accomplished by an assignable group of people. Thetasks can contain branches with condition checks. It can or should a non- negotiablefunction contain automatic tasks like sending e-mails with predefined texts completed by data taken from the workflow. It is also possible to call sub workflows. Sub processes occurring often do not have to be defined in every workflow and can be re-used. In each task the person working on the task can enterdata being stored related to the workflow. In case the workflow deals with data from the CAAP solution like persons or license holders, the workflow user can easily view the related data from within the workflow (workflow integrated into the solution).	
	While a workflow is in process it shall always be possible to add documents to the workflow or to make notes to keep track of information related to the workflow.	
	All the users participating in a workflow can view their open tasks in a personal task list. From this list they can pick tasks they want to work on. The tasks list is highly configurable to only show tasks and data the user is currently interested in.	
	It shall also be possible for a user to temporarily postpone a task so it is not shown in his task list for an amount of time,	

	automatically appearing again after that timeperiod.	
	Supervising officers shall easily keep track about tasks requiring their attention. They can reassign tasks to other officers.	
	Workflows can implement a supervisor check so the work of an officer will alwaysbe checked by his supervisor before continuing in the predefined flow.	
	A workflow designer can define due dates a workflow must be finished within (timeperiods).	
	The workflow tool shall allow the modelling of automated decisions (based on configurable business logic) using the underlying data.	
	At the end of a workflow the tool shall allow the automation of tasks (storage of data and documents) in the different application areas of the backend systems.	
	In case a workflow is not completed before the due date, automatic e-mails can be sent (internally and to the stakeholders) or other workflows can be triggered (escalation management)	
	It shall be possible to integrate the workflow into an enterprise infrastructure by exchanging data with other systems than the CAA enterprise system. Other systems can send requests to workflow system triggering a workflow to start. After the bespoke workflow is finished it sends a response back to the other system containing data defined by the workflow designer.	
	Using the WEB together with Workflow shall enable pilots, mechanics and amongothers to hand in electronic application forms defined by the authority or to be integrated in feedback loops via the web client. An incoming electronic form or an input screen of workflow data shall start a workflow containing the form or input data. The status of the application can be tracked by the applicant in the WEB clientas well. The status information given to the application is defined by the workflow designer. The applicant can also upload additional documents in electronic form completing his application.	
	The history of ongoing and completed workflows can be reviewed any time answering the "What happened when caused by whom" questions. The history of ongoing and completed workflows can be reviewed any time answering the "What happened when caused by whom" questions.	
2.3.10	Interfaces	
	Web Service interfaces should be available to connect to an external DMS/archivesystem (transfer of documents and meta data about the document). The document is retrieved later from the external DMS if needed within the application.	
	A Web Service for Query Tool shall be available to connect query data into other 3 rd party systems	
2.3.11	Risk and Performance Based Surveillance	
	CAAP likes to follow and observe the risk and performance- based surveillanceservice providers' conformities. This, CAAP want to ensure the availability of the:	

0 0 0 0 0 0	 Multipurpose Tool for inspectors, analysts and decision makers Risk-based Oversight Checklist planning (content and cycle) andassessment Risk Profile of Service Provider, Ranking Interconnected dashboards, switch from one view to another (browse mode,drill-down). Suitable for all regulated aviation areas (different categories of serviceproviders) Tool properties: Integration in bespoke main solution Data collection, processing, representation, storage (revision safe, timelinetrends) Reproducible result + comprehensible setup and usage + traceable 	
0	Indicators: Derive indicators from raw data (reuse raw data in differentindicators)	
0	 Different types of raw data Facts (e.g. number of employees, fleet-size) Assessed and rated surveillance elements (checklist) Extract existing data from database 	
Eva	luation	
•	The system must provide the user with the ability to present the indicators thatwere calculated on the values entered per Service Provider. The system must provide the user with the ability to present the results of an evaluation in a scatter chart.	
•	The system must provide the user with the ability to present the results of an evaluation in a (stacked) bar chart.	
•	The system must present the trend of an indicator over time.	
•	The system must ensure that only authorized users can create an evaluation.	
Stru	ucture of master data	
•	The system must provide the user with the ability to define and use a hierarchical structured system. This system must consist of surveillance elements that are aggregated into indicators. The indicators must be aggregated into evaluations.	
•	The system must provide the user with the ability to reuse the data structure foreach surveillance and evaluation.	
•	The system must provide the user with the ability to aggregate indicators in evaluations using pre-defined mathematical methods such as but not limited to: sum, squared sum and percentage.	

	 The system must provide the user with the ability to approache indicators in evolutions using combinations of 	
	aggregate indicators in evaluations using combinations of mathematical methods by using a script language editor.	
	 The system must provide the user with the ability to set the 	
	status of the masterdata elements to ensure inactive or draft	
	elements are not used by an evaluation.	
	• The system must provide the user with the ability to see, in	
	which other elementsof the hierarchy, a certain element is	
	used.	
	 The system must ensure that only authorized users can manage the master data. 	
	Gathering of data	
	• The system must provide the user with the ability to	
	create checklists forsurveillance audits, based on the master data (surveillance elements).	
	• The system must provide the user with the ability to create a	
	checklist for a surveillance audit based on categories.	
	Service providers can be linked to thesecategories as well as	
	surveillance elements. The system must suggest a checklist	
	based on the matches regarding these categories between	
	service provider and surveillance elements.	
	 The system must provide the user with the ability to answer surveillanceelement questions of the checklist by entering a 	
	value manually.	
	• The system must provide the user with the ability to answer	
	surveillance element questions of the checklist either by	
	selecting from a pre-defined set of values or word pictures.	
	 The system must provide the user with the ability to manually encode the data, even without a surveillance activity (ad hoc) 	
	 The system must ensure that only authorized users can create a checklist. 	
	 The system must ensure that only authorized users may add, edit and delete values of a service provider. 	
	• The system must provide the user with the ability to	
	generate demo data fortesting purposes	
	Interface/s	
	 The system must provide the user with the ability to export the master data toxml-files. 	
	• The system must provide the user with the ability to import the	
	master data from(previously exported) xml-files.	
2.3.12	Examination System	
	Functional Requirements	
	 The Examination System shall be a software-based system capable of providing theoretical knowledge examinations via the Internet. 	
	 The Examination System must support all stages of the examination process from online application for an examination through scheduling, setting, running, marking of the examination, and notification of the result to the 	

examination candidates.	
 The Examination System must be able to generate reports of various types such as pass rates, question analysis etc. 	
 The Examination System must have high reliability (of the order of 99%) and itmust be secure in terms of protection of the questions and retention of exam results. 	
 The Examination System selected must be capable of meeting current aviation regulatory requirements related to the administration of theoretical knowledge examinations for airmen licensing. 	
System Requirements	
 The ability to utilize an examination computer while maintaining at most security of the Examination System is desirable. 	
 The Examination System shall be capable of operating on computers fit with different / various operating systems such as Windows platforms. 	
Interfacing Requirements	
The Examination System should also be capable of interfacing with other software packages such as financial management systems, and the bespoke CAAP management system, and with online booking and payment options.	
Security Requirements	
The Examination System shall be designed to provide a high level of security for the stored question bank, any set papers and examination candidate and examination result data.	
It shall be possible to create different levels of User Administrators and assign individual rights or permissions to each.	
Question, Question Control and Attachments	
 It shall be possible to analyze individual question usage, difficulty level, pass rates etc. 	
 Each question shall be uniquely identifiable in the Examination System. 	
 The Examination System shall be capable of randomizing the question-and-answer options available to each examination applicant for the same examination. 	
 The exam system shall be designed as to assign various attributes to questions, such as, but not limited to: Question Type, Multiple choice answers, Essay type question, Category. 	
 The Examination System shall be so designed as to enable easy search for and location of specific question(s). 	
 The Examination System shall be so designed as to enable importing and exporting of data such as question banks in various formats. 	
The Examination System shall be capable of linking	

attachments to each question. These attachments shall be available to access by an examination candidate whenever the particular question is offered in an examination.	
 The Examination System shall be capable of attaching and displaying various file formation such as image files, video files, pdf files, doc files, etc. 	
Examination Candidate Interface	
• The interface for the examination candidate shall be clean, easy to navigate and intuitive. The examination candidate shall be readily able to review his/her progress during an examination including time remaining, questions completed, questions flagged for follow up and questions outstanding.	
• Each examination candidate shall be provided with a unique login to enable them to access specific examinations assigned to him or her.	
User Administrator Interface	
• The interface for the User Administrator shall be easy to navigate and intuitive. The User Administrator shall be readily able to access the various modules of the Examination System	
 Each User Administrator shall be provided with a unique login to enable access to the Examination System. The ability to allow a User Administrator to change their password shall be provided. 	
Scheduling of Exams	
The interface for scheduling of exams shall be easy to understand and should where possible utilize selection lists and auto fill functionality when scheduling examinations.	
Examination Management	
• The setting of examinations should be intuitive and easy to understand. The Examination System shall be able to develop individual question papers, combine papers into examination sessions and assign specific exam papers or sessions to certain venues and dates.	
 The examination system should be in accordance with PCAR requirements and methods. 	
 System access must be controlled by the use of individual usernames and passwords. 	
 The Examination System shall be capable of analyzing each examination paper and sitting and produce reports on problematic questions, unusual results, trends, etc. 	
• The Examination System shall be capable of tracking and recording any review of an examination result following a request by a examination candidate for review.	
 The Examination System shall be capable of transferring all examination data required by the electronic licensing system – tailored to CAAP system. 	
Qualification/Competency Management	

	CAAP needs a module to handle competency of inspector staff.	
	We need to trackcourses and experiences from the past and to	
	manage the planning for the future.	
	The system shall handle:	
	 Skills: acquired by attending courses or by having appropriate proficiency 	
	 Tasks: to be fulfilled during ongoing training program organized by CAAP 	
	The details to be handled as definition data for skills an tasks:	
	 ∨alidity of skill/task 	
	 Aviation Sector 	
	 Category 	
	 Name and Type (skill or task) 	
	 One or multiple levels of skills 	
	Courses:	
	They shall handle a set of skills. After course is taken by a participant, he shall beable to acquire a function requiring these	
	skills.	
	• The system shall store the courses offered (name, course	
	number, start date, enddate, location, status, training method, etc (out of list box))	
	• The courses shall handle in addition information of skills (one	
	or many) with their level, examiner(s), participant(s) and a	
	document container. Courses shallbe able to be copied to	
	generate similar courses quickly.	
	• After the course is finished the respective results shall be	
	added to the participant records (value like passed/failed or scores between 0 and 100)	
	The system shall handle the qualification requirements. It is a set	<u> </u>
	of skills and/or task which has to be fulfilled by a competent	
	person to acquire a certain qualification within CAAP. The	
	system shall allow the definition of unlimited qualifications/	
	functions with requirements	
	The system shall be able to collect several tasks into training sets.	
	The competence / proficiency shall be handled per person in	
	adequate screens. It isa collection over live time.	
	The competency of the person needs to be connected to the	
	surveillance componentto respect the underlying data about his	
2.3.13	qualification (function, grade, status)	
2.3.13	Accident and Incident Management	
	The system shall serve to receive and process reported accidents and incidents.	
	Information on involved aircraft can be queried from the aircraft	
	register.	
	Reports received in the module shall be evaluated in the	
	reception area (inbox) where they can be put on hold, rejected, deleted or may be passed on to other accident incident software	
	The basic information contained in the inbox shall enable the case handlers to decide on the further processing of the report. This	

 informationshall contain time and date, classification, location, registration mark / call sign, operator and ATM unit, reporting group, report group and the occurrence narrative.Data submitted by the reporter is only viewed in the described module. Reports received in the module shall be evaluated in the reception area (inbox) where they can be put on hold, rejected, deleted or may be passed on to other accident incident software The basic information contained in the inbox shall enablethe case handlers to decide on the further processing of the report. This informationshall contain time and date, classification, location, registration mark / call sign, operator and ATM unit, reporting group, report group and the occurrence narrative.Data submitted by the reporter is only viewed in the described module. The case handler shall be able to perform the quality assurance of the information provided in the report and may code it in the event structure provided by any othersoftware. When the case is 	
stored, it is added to the national database. The national database can be searched and queried for information to be used in statistics, overviews and the follow-up of individual cases.	
The case administration function in this module shall retrieve selected informationfrom the national database to sort and filter the occurrences. Also, a report on inputsafety information for each case is available in PDF format. Inspectors working in the case administration of the desired module can see all cases, get an overview onrecommendations and perform searches in the national database. Follow-up activities are logged and individual cases receive a status.	
 A separate view shall show all cases which will be treated in the meetings and keepsa history of issues handled in past meetings. A management overview shall provide information on the number of open occurrences, case handlers and their workload and safety recommendations issued. An e-mail function shall be integrated in the case administration to ease communication between users. 	
 Case handling The system must provide the user with the ability to handle incoming cases in an inbox. The system must provide the user with the ability to manually log changes of the cases. 	
The system must provide the user with the ability to search for cases.	
The system must provide the user with the ability to merge cases based on theirsimilarity.	
The system must ensure that only authorized users may handle cases.	
The system must provide the user with the ability to organize meetings basedon properties (e.g. criticality) of the cases.	
Case details	
 The system must provide the user with the ability to create, edit and delete cases. The system must provide the user with the ability 	
 The system must provide the user with the ability 	

	to print case details.	
	Interface	
	• The system must be able to receive reported incidents and accidents from an external system (e.g. web portal) using a standard web service of the software system.	
	 The system must provide the user with the ability to export incident cases toexternal system. 	
	Reports	
	 The system must provide the user with the ability to create reports that give anoverview of the cases. 	
	 The system must provide the user with the ability to print reports. 	
	Interfacing Requirements	
	The System should also be capable of interfacing with other software packages suchas financial management systems, and the bespoke CAAP management system, and with online booking and payment options.	
3.0	HARDWARE COMPONENT	
3.1	CLOUD HOSTING GENERAL REQUIREMENT (MANAGED SERVICE)	
	To maintain a resilient, efficient and secure Cloud Service	
	Must be at least Tier 3 Local Cloud Hosting Facility	
	Concurrently maintainable facility with multiple source/redundancy for power and cooling	
	 Does not require a total shutdown during maintenance or equipment replacement 	
	 Must also have N+1 availability (able to support at full capacity load plus additional components as failover in primary failure scenario) 	
	 Backup solutions that can keep operations running in case of a local or region-wide poweroutage 	
	The facility must ensure equipment can continue to operate for at least 72 hours following an outage	
	Maximum allowable downtime per year 8 hours	
	 Internet service should be at least 50mbps leased line (per site) with redundancy Cloud services account name should be Civil Aviation 	
	Cloud services account name should be Civil Aviation Authority of the Philippines	
	Data Center Parameters TIER 3 Level	
	Uptime guarantee 99%	
	Downtime per year <8 hours	
	Component redundancy HA	

	Concurrently maintainable Partially	
	Compartmentalization No	
	Certifications and Compliance ISO 9001, ISO 27001, and PCI- DSS,	
	The managed cloud data center positioned as the production site must be in Metro Manila.	
	The managed (hosted) services should include the following equipment as a standard in hosting the application, environment must be fully redundant, active-passive configuration and should have the following infrastructure in production. The failover site must be at least 20 kilometers away from the primary site.	
	The managed (hosted) services should include the following equipment as a standard in hostingthe application, environment must be fully redundant and should have the following infrastructure in production.	
3.1.1	Managed Cloud Service with Dedicated Active-Active Configuration	
3.1.2	 Minimum Requirement per site: Dedicated, Compute, Storage and Security configuration High availability compute and storage Dedicated Security (per site) 4 nodes in HCI configuration (per site) At least 12 cores, 2.10 GHZ Processor (on each node) At least 512GB Memory (on each node) At least 512GB Memory (on each node) At least 1.92T NVMe SSD for cache purpose (on each node) At least 5x10T SATA HDD for storage (on each node) 50TB of Usable Storage (per site) At least 2 x 10G SFP Network for connectivity Microsoft Data Center Server 2022 (or equivalent) MS SQL Licenses 150 Microsoft CAL 2 Units Security Firewall 	
	(Security-as-a-Service Primary and Fail-Over Site)	
	This project requires 2 firewall appliances with 3 years hardware and software support;	
	The proposed Firewall solution must be next gen firewall and include the Site-to-Site IPsec VPN, FW, BM, URL filtering, Application Control, IPS, Email Security, Risk Assessment, Security Visibility, Security Reporter etc.	
	The proposed solution must be a 2U appliance	

The proposed solution must meet the performance specification
below 1) Firewall throughput at least 20 Gbps.
2) New connections (TCP) at least 110,000.
3) Threat prevention throughput at least 5.6 Gbps
4) IPS&WAF Throughput at least 5.6 Gbps
, , , , , , , , , , , , , , , , , , , ,
The proposed solution must provide the type & number of interfaces
as below
1) At least 2 USB ports
2) At least 6 10/100/1000 Base-T ports
3) At least 2 10G SFP ports
The proposed solution must provide 128 SSD disks
Network Adaptability
The product proposed should support following deployment modes:
1) routing/gateway mode;
2) transparent/bridge mode
3) virtual wire mode;
4) bypass mode.5) Mixed mode.
3) Mixed mode.
The product proposed must support at least 3 pair of hardware
bypass (copper), so in case of device failure, the network traffic can
still pass.
The proposed product must support high availability via:
1) Active-Active mode;
2) Active-Passive or Active Standby mode;
The proposed product must support link aggregation with following
work mode:
1) Load balancing - hash
2) Load balancing - RR(Round Robin)
3) Active-Passive
4) LACP
The proposed product must support link state propagation, that
means can setup the correlation interface group, if one of the
interfaces in the group turns up/down, the other interface will follow
the same action
The proposed product must support link state detection, with at least
the methods below:
1) ARP
2) Ping
3) DNS Lookup
The product proposed must support different mode of NAT:
1) SNAT, DNAT and bidirection NAT.

The product	should be ready for IPv6, include:	
	 Support IPv4/IPv6 dual stack mode; 	
	Support control IPv6 in access control policy,	
	provide control via IP address, service, application,	
	domain, etc.	
The product	should support DHCP, include:	
I	1) Act as DHCP server or DHCP proxy	
	2) Support IP reservation	
The product	proposed must support dynamic routing protocol:	
me product	1) RIPv1/2	
	2) OSPFv2, OSPFv3	
	3) BGP4	
	t proposed must support policy-based route. The	
policy route	can setup with:	
	1) Routing source can be specific to IP, IP group	
	Support select route based on IP, services,	
	Country/Region, Application etc.	
	3) Support load balance via at least 4 methods,	
	Round Robin, Bandwidth ratio Round robin,	
	weighted least traffic, prefer the first link (link on top)	
The propose	ed product must support at two types of IPsec VPN	
protocols:		
r 0.00010.	1) Proprietary VPN protocol.	
	2) Standard IPsec protocol.	
The product	proposed must be able to setup site to site VPN in the	
following sce	· ·	
TOHOWING SCE	1) Each site is static IP	
	1	
	2) Each site is dynamic IP	
	3) One site is dynamic IP while the other site is	
0	static IP	
	nitoring the status of each VPN tunnel, the data be	
monitoring ir		
	1) Overview of all the active VPN tunnels	
	2) Inbound/outbound traffic;	
	3) Latency	
	4) Packet loss rate;	
	proposed should support SD-WAN capability via VPN	
tunnels:		
	 Support session-based link balancing mode. 	
	2) Can choose the optimize link based on	
	bandwidth-remaining ratio, application type or link	
	quality (means packet loss, jitter, latency)	
The propose	d product should support SSL VPN feature.	
F. CP 000	1) Support at least 30 concurrent user access	
	2) Support TCP, UDP, ICMP protocols	
	3) Support HTTP, HTTPS, Email, File share, FTP	
	σ_{i} σ_{i}	
etc		
etc.	4) Support control access by IP LIRL TCP/LIDP	
etc.	4) Support control access by IP, URL, TCP/UDP	
etc.	port etc.	
etc.		

	oosed product should be able to support user	
authentica	tion via following standard:	
	1) Support captive-portal based authentication; the	
	captive portal is customizable;	
	2) Support Singla Sign-on (SSO) with Microsoft AD,	
	Radius	
	3) Support local user database, and external user	
The prepe	authentication such as LDAP, Radius, POP3 etc.	
	sed solution should support application control feature the following specifications:	
and meet		
	1) Support application control and can identify &	
	control over 9800+ applications. 2) Support admin customize their own application	
	,	
	types 2) Typical types of applications can be controlled	
	include game, P2P, shopping, social networking	
	etc.	
	3) Should be able to control applications via	
	source/destination IP, username, Schedule etc.	
	4) Be able to deny, allow applications	
The propo	sed product must support URL filtering:	
	1) provide at least 70+ URL categories, include	
	game, gambling, finance, Pornography etc.	
	2) Support manually creates customized the URL	
	category.	
	3) Should provide on-premise URL signature	
	database, not only rely on cloud.	
The propo	osed solution must support filter, which can filter the	
download.	upload file by file type (extension).	
- ,	1) Support common file type (extension) category,	
- ,	such as, image, text, executable file, scripts etc.	
- ,		
	such as, image, text, executable file, scripts etc. 2) Support customized file type(extension)	
The prop	such as, image, text, executable file, scripts etc. 2) Support customized file type(extension)	
The prop	such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) osed solution should support feature to control	
The prop	such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) osed solution should support feature to control t session/connections:	
The prop	such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) oosed solution should support feature to control t session/connections: 1) Be able to control concurrent session/connect by	
The prop	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) sosed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both 	
The prop concurrent	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) osed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific 	
The prop concurrent	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) oosed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. 	
The prop concurrent The propo	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) oosed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. 	
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The prop concurrent The propo	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) posed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. posed product should be able to control traffic based on tions: Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which 	
The prop concurrent The propo	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) sosed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. sed product should be able to control traffic based on tions: Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which country/region and specify the deny or allow action 	
The prop concurrent The propo	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) posed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. posed product should be able to control traffic based on tions: Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which 	
The prop concurrent	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) sosed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. sed product should be able to control traffic based on tions: Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which country/region and specify the deny or allow action 	
The prop concurrent	such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) osed solution should support feature to control t session/connections: 1) Be able to control concurrent session/connect by source IP, destination IP, or both 2) In the policy, it will be able to setup specific concurrent session/connection number. sed product should be able to control traffic based on tions: 1) Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which country/region and specify the deny or allow action 2) The geolocation identifications should be able to	
The prop concurrent	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) sosed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. sed product should be able to control traffic based on tions: Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which country/region and specify the deny or allow action 2) The geolocation identifications should be able to support to the major countries in the world 	
The prop concurrent	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) posed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. posed product should be able to control traffic based on tions: Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which country/region and specify the deny or allow action The geolocation identifications should be able to support to the major countries in the world Support the search feature to help find out a 	
The prop concurrent	 such as, image, text, executable file, scripts etc. 2) Support customized file type(extension) posed solution should support feature to control t session/connections: Be able to control concurrent session/connect by source IP, destination IP, or both In the policy, it will be able to setup specific concurrent session/connection number. posed product should be able to control traffic based on tions: Be able to control the source IP by a geolocation level, that means the device have a database that can identify the access (IP) is from which country/region and specify the deny or allow action The geolocation identifications should be able to support to the major countries in the world Support the search feature to help find out a specific IP belong to which region. 	

managemei	ct proposed must be able to support bandwidth nt feature:	
June Server	1) Be able to limit or guarantee the bandwidth based	
	on IP, user, application, schedule, vlan etc.	
	2) Be able to provide per IP/User speed control in	
	single policy	
The product	t proposed must be able to provide security protection	
features:		
	1) IPS.	
	2) APT	
	3) Anti-Virus/Malware.	
	4) Anti-DoS/DDoS.	
	5) Anti-Brute force attack	
	6) Web Application Firewall (WAF)	
	ct propose must support IPS feature and meet the	
specification		
	1) IPS signature over 9000 entries on premise.	
	2) Support admin create customized IPS signature	
	by regular expression, keywords, protocol, port &	
	direction	
	3) Support admin change the signature default	
	action by per signature based or global.	
	4) User can use CVEID, Vulnerability Name,	
	vulnerability ID, threat level etc. to search for the	
	related signature. 5) IPS module should be able to detect brute-force	
	attack to DB2, Mongodb, MSSQL, MySQL, FTP,	
	IMAP, Jboss, Jenkins, Joomla, Kerberos, SMB,	
	Telnet, SSH, RDP etc.	
	6) IPS can get up to date signature data via cloud	
	threat intelligence or upload signature package via	
	webUI	
	7) Support minimizes to 10-minute update after a	
	new outbreak happens, when connect to cloud	
	threat intelligence	
	sed solution must support APT and meet the	
The propo specification	n below:	
	n below: 1) Detection of remote control trojan, malicious	
	n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats.	
	n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million	
	 n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million malware signature database on-premise 	
	 n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million malware signature database on-premise 3) The device can connect to cloud threat 	
	 n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million malware signature database on-premise 3) The device can connect to cloud threat intelligence and do real-time for check to threat 	
	 n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million malware signature database on-premise 3) The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. 	
	 n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million malware signature database on-premise 3) The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. 4) APT can effectively identify & block the 	
	 n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million malware signature database on-premise 3) The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. 4) APT can effectively identify & block the abnormal traffic within well-known protocols such 	
	 n below: Detection of remote control trojan, malicious URL/domain, and other threats. The product should support at least 140 million malware signature database on-premise The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. APT can effectively identify & block the abnormal traffic within well-known protocols such RDP, SSL, IMAP, SMTP, POP3, FTP, DNS, 	
specification	 n below: 1) Detection of remote control trojan, malicious URL/domain, and other threats. 2) The product should support at least 140 million malware signature database on-premise 3) The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. 4) APT can effectively identify & block the abnormal traffic within well-known protocols such RDP, SSL, IMAP, SMTP, POP3, FTP, DNS, HTTP, WEB 	
specification	 n below: Detection of remote control trojan, malicious URL/domain, and other threats. The product should support at least 140 million malware signature database on-premise The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. APT can effectively identify & block the abnormal traffic within well-known protocols such RDP, SSL, IMAP, SMTP, POP3, FTP, DNS, HTTP, WEB 	
specification	 n below: Detection of remote control trojan, malicious URL/domain, and other threats. The product should support at least 140 million malware signature database on-premise The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. APT can effectively identify & block the abnormal traffic within well-known protocols such RDP, SSL, IMAP, SMTP, POP3, FTP, DNS, HTTP, WEB ed solution must support anti-virus feature: Support stream based anti-virus with AI-Based 	
specification	 n below: Detection of remote control trojan, malicious URL/domain, and other threats. The product should support at least 140 million malware signature database on-premise The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. APT can effectively identify & block the abnormal traffic within well-known protocols such RDP, SSL, IMAP, SMTP, POP3, FTP, DNS, HTTP, WEB ed solution must support anti-virus feature: Support stream based anti-virus with AI-Based anti-virus engine 	
specification	 n below: Detection of remote control trojan, malicious URL/domain, and other threats. The product should support at least 140 million malware signature database on-premise The device can connect to cloud threat intelligence and do real-time for check to threat that cannot identified locally. APT can effectively identify & block the abnormal traffic within well-known protocols such RDP, SSL, IMAP, SMTP, POP3, FTP, DNS, HTTP, WEB ed solution must support anti-virus feature: Support stream based anti-virus with AI-Based 	

··· ·· ···	
compress file with up to 16 layers.	
 Support scans the files up to 20MB 	
5) Support detect virus in main stream file types,	
include text, image, music, movie, compressed file,	
executable file, document, script, etc.	
5) Support cloud-based analysis with the file cannot	
be identified locally	
6) Support whitelist or exclude trusted file by MD5	
or URL path	
The proposed solution must support anti-dos/ddos features, with	
the features:	
1) Support ARP flood, SYN flood, UDP flood, DNS	
flood, ICMP&ICMPv6 flood protection.	
2) Support IP/port scan protection.	
3) Support detection and prevent TearDrop attack,	
LAND attack, WinNuke attack, Smurf attack, Ping	
of death, IP fragment.	
The proposed solution should provide the cloud-base threat	
intelligence capabilities, include:	
1) Cloud Sandboxing	
2) Cloud intelligence to identify unknown/new	
threats	
 Cloud intelligence can provide the new 	
signature update to new outbreaks; the minimized	
respond time is 10 minutes.	
The proposed solution must support a dedicated account	
protection module to identify the abnormal usage of user	
accounts.	
1) Support detection of weak password, brute-force	
attack, abnormal/suspicious login etc.	
2) Provide dedicated GUI page to show & respond	
all the account abnormal usage events that	
happens recently.	
The proposed solution must support a dedicated ransomware	
protection module, which can:	
1) Automictically scan and detect ransomware	
related vulnerabilities, port, weak password, brute-	
force attack etc.	
2) Provide dedicated GUI page to show and	
respond all the ransomware related vulnerabilities	
3) Can provide guidance or suggested action to	
admin, e.g., deploy block policy direct	
The proposed solution must provide a real-time vulnerability	
analysis or passive vulnerability scan:	
1) Detection vulnerabilities based on traffic	
passthrough NGAF, without any active scanning	
activities to the servers, minimize the extra work	
activities to the servers, minimize the extra work load and other impact	
activities to the servers, minimize the extra work load and other impact 2) The vulnerabilities that can be detected includes	
activities to the servers, minimize the extra work load and other impact 2) The vulnerabilities that can be detected includes web application vulnerability, weak password,	
activities to the servers, minimize the extra work load and other impact 2) The vulnerabilities that can be detected includes	

The proposed solution must support build-in log center which can	
keeps 4 types logs:	
1) Access Log (Application control log, user	
authentication log, SSL VPN log)	
2) Security Log (IPS, WAF, Botnet, Email	
protection, Anti DoS, Web Access)	
3) System log	
4) Support export log to excel file.	
The proposed solution must support build-in reporting features,	
which include:	
1) Generate comprehensive Security report in PDF	
format	
2) Support security report subscription by email, in	
daily, weekly, monthly based.	
 Other Features	
The product proposed should support GRE tunnel	
Support DNS transparent proxy	
Support ARP proxy	
Support DDNS	
 The product proposed must support static routing. 	
 Support redistributes direct route, static route, RIP 	
route (OSPFv2), default route to OSPF.	
 Support authentication method: plaintext, MD5" 	
• Support redistributes direct route, static route, RIP	
route, OSPF route to BGP	
Support IPSec VPN as the backup link, when main link	
(MPLS or lease line) disconnected, the traffic will	
failover to IPSec tunnel	
Support Access Control, Security policy (IPS, APT etc.)	
on IPSec tunnel.	
 The proposed product should be able to support SSL 	
VPN access via Windows XP/7/8/10, MacOS, Android,	
IOS	
Support LDAP user automatic synchronization.	
 Support Microsoft AD security group mapping. 	
 Support SSL VPN user log in & log out log 	
 The proposed solution must support HTTPS decryption 	
 The proposed solution must provide risk analytics 	
module that allows to scan and identify security	
loopholes such as open port, system vulnerabilities,	
weak passwords, etc.	
• The risk assessment should support major protocols	
such as: HTTP, HTTPS, POP3, SMTP, RDP, SMB,	
Oracle, MSSQL, MySQL etc.	
• The appliance should include the local hard disk to	
provide log retention	
 The proposed solution must support export log to 	
syslog server	
 The proposed solution must be with "AAA" racking in the Output patients Finance" 	
the Cyber Ratings Enterprise Firewall	
The vendor of the proposed solution must be certified	
with CMMI L5.	

3.1.3	Internet Service Bandwidth (With redundancy per site)	
3.1.3	At least 50 MBPS of Dedicated Internet Service	
	At Least 14 Usable IPs per site	
	At Least 14 Usable II 3 per site	
044	Paakun and Paaavary Softwara	
3.1.4	Backup and Recovery Software	
	Support Local and Remote backup Pool Should have a managed Dispater Descurry convice	
	 Should have a managed Disaster Recovery service available autoide of Luzon and within the Bhilippings 	
	available outside of Luzon and within the Philippines	
	 Should have a managed Disaster Recovery Service with the disaster recovery drill included presented in the form 	
	the disaster recovery drill included presented in the form of a dedicated cluster that will serve CAAP only, physically	
	isolated from other tenants.	
	 Should have a managed Disaster Recovery Service coming from the same vendor without the need of 	
	additional 3rd party backup / DR software or provider to	
	ensure compatibility and ease of management.	
	 Support Built-in CDP (Continuous data protection) Policy 	
	for Virtual Machine level to support seconds level RPO	
	 Disaster recovery solution must be from the same vendor 	
	of the underlying virtualization platform	
	 No additional backup or replication software is required 	
	 Support non-disruptive DR testing to validate DR solution 	
	effectiveness with zero impact on production business	
	 Provide flexible RPOs, minimum 1 second 	
	 Support data compression and encryption in the 	
	replication	
	 Support ingesting data with portable disks in production 	
	cluster and importing data to DR cluster to save bandwidth	
	consumption	
	 DR monitoring should be supported with real-time status 	
	display of VMs and clusters at both sites as well as link	
	health status and RPO compliance	
	Cloud Platform security	
	The cloud solution must support VM level Must be able to	
	provide security protection features:	
	1) IPS	
	2) Anti-Virus/Malware.	
	3) Anti-DoS/DDoS.	
	4) Web Application Firewall (WAF)	
	 Must have a built-in distributed firewall to apply granular 	
	access control policy between	
	VMs, securing east-west traffic	
	Support risk assessment module that allows to scan and	
	identify security loopholes such as open port, system	
	vulnerabilities, weak passwords and other risks of the	
	protected servers	
	Must be able to support the attack types, such as, XSS, SOL CRSE CC attack OS Command Injection	
	SQL,CRSF, CC attack, OS Command Injection,	
	Webshell, scanner blocker, path transveral etc.	
	 Must have application firewall and web application firewall coming from the same wonder to ensure compatibility and 	
	coming from the same vendor to ensure compatibility and	
	inter-operability	

	Cloud Neversent Dietf	1
	Cloud Management Platform	
	Provide self-service portals for platform administrators and tenants. Support platform administrators to conduct	
	and tenants. Support platform administrators to conduct	
	unified management, operation and maintenance of resources through the self-service portal, and support	
	tenants to apply, use, manage, and monitor cloud	
	resources through the self-service portal	
	 Provide standard OpenStack API to meet the needs of integration or secondary development 	
	 support lifecycle management of x86 physical machines, 	
	including power on/off, console access, allocation to	
	tenants, recycling, deletion operations, adding physical	
	machines to the cloud platform individually or in batches	
	and real-time monitoring of CPU and memory information	
	of physical machines	
	Flexible Storage Options	
	Supports docking with Open LDAP and Windows AD	
	domains, and can import customers' original LDAP	
	accounts to achieve LDAP unified authentication	
	• Supports hybrid cloud services of the same architecture,	
	users can access the cloud federation center, host	
	business in the third-party data center built with the same	
	hyper-converged architecture, or link third-party	
	managed cloud data center to realize O2O (on-cloud and	
	off-cloud) disaster recovery	
	• Support delivers online O&M management service,	
	support to install agent program within hyper-converged	
	platform, private cloud, virtual desktop infrastructure to	
	unify the management of these resources, support to add	
	any additional of the abovementioned three resource	
	pools with no quantity limit	
	 Support able to compile and deduplicate the alarms 	
	received by the users, to consolidate the alarms caused	
	by the same source fault together to reduce the alarm	
	noise and storm to improve the readability and make it easy to find the alarms with high priorities.	
	 Support users to check the impact scope of alerts (full- 	
	link of platform), support intelligent root cause analysis	
	and tracing of fault chain to generate resolutions.	
	 Support user to check predictive risk display, support to 	
	predict the following risks via AI engine which contains	
	but not limit to: HDD fault, RAM Fault, Raid Controller	
	Fault, Performance Chokepoint, support to check real-	
	time risk and historical risk	
3.2	Supplier's proposed brand of Tablet, Laptop and Mini PC must	
	have been locally and internationally marketed and sold for at	
	least twenty (20) years prior to the scheduled date of bid	
0.0.1	opening	
3.2.1	200 Units Tablet	
	OS platform such as but not limited to: IOS, Android, MS, etc. is	
	acceptable as long as the SOMS application/system can be accessed using the proposed tablet.	
	 Resolution: At least 2560 x 1600 (or higher) 	
	 Display: 11" display (or higher), touchscreen 	

	- Droppener: At least Opto Core @ 2.00Uz (or its equivalent)	
	 Processor: At least Octa- Core @ 2.0GHz (or its equivalent) 	
	(or higher)	
	 Operating System: Latest version 	
	 Memory: At least 8GB or higher 	
	 Storage: At least 256GB or higher 	
	 External Storage: up to 1TB 	
	 Accessories: book cover keyboard and pen 	
	 WIFI ready/ Bluetooth 	
	 With webcam/speaker 	
3.2.2	100 Units Mini PC	
	 Processor: 10 Cores, 16 Threads 	
	 Memory: 16GB DDR4 	
	 Storage: 1T SATA SSD 	
	 Graphics: Integrated Graphics 	
	 Display: At least 21.0-inch LCD HD Monitor (same brand 	
	as the cpu)	
	 Peripherals: USB Keyboard and Mouse; 650va UPS 	
	 I/O Specifications: 	
	\circ USB Configuration: At least 5x USB 2.0/3.0/3.2, 1x USB $-$ C, lan,	
	 Latest Microsoft Operating System (64-bit) 	
	 Latest Microsoft Office Standard XDD and a sist or quints 	
	• XDR endpoint security	
3.2.3	4 Units Laptop (for Project Management and Implementation)	
	• Processor: At least 8 cores, 16 thread (or higher)	
	 Display: At least 14.0" FHD (1920×1080); Anti-glare 	
	 Memory: 16GB DDR4 (or higher), 	
	 Storage: 1TB SSD 	
	 Graphics: Latest Integrated Graphics 	
	 Operating System: Latest Windows 64 bit 	
	 Keyboard: Backlit, English 	
	 Camera: 720p with Privacy Shutter 	
	 Battery: Integrated 38Wh (or higher) 	
	 Power Adapter: Yes 	
	 I O Ports: At least 	
	- 1x USB 2.0	
	- 1x USB 3.0/3.2	
	- 1x USB-C	
	- 1x Headphone / microphone combo jack	
	 Bundled Software: Latest Microsoft Office Standard 	
	 XDR endpoint security 	
3.2.4	10 Units Pen Tab	
0.2.1	• Tablet Size: At least 200 x 160 x 8.8 mm / 7.87 x 6.3 x	
	0.35 in or higher	
	 Active Area: At least 152.0 x 95.0 mm (6.0 x 3.7 in) or 	
	higher	
	 Express Keys: At least 4 customizable application- 	
	specific settings or higher	
	 Pressure Levels: At least 4096 or higher 	
	 Resolution: At least 2540 lpi (or higher) 	

3.2.5	10 Units Webcam	
	 Widescreen Full HD video (1080p at 30fps) driger 	
	 Fast and smooth autofocus 	
	 Glass lens 	
	 Full HD 1080p videos (or higher) 	
	 Razor sharp image/video up to 10 cm from the camera lens 	
	Auto Light Correction	
	 Built-in noise-reducing HD Microphone 	
2.2	 Swivels a full 360 degrees Configuration and Implementation of Microsoft Active 	
3.3	Directory Service for SOMS end-users	
	To secure SOMS Network and Application System, Microsoft	
	Active Directory (domain controller) must be	
	implemented to 150 devices identified as SOMS end-users	
	running on Microsoft Professional Operating system	
	(desktops and laptops, including deliverables of this project).	
3.4	Endpoint Security Solution for Manage Servers	
	1. The solution should offer a holistic approach in security with	
	purpose-built XDR, Attack Surface Risk Management, and	
	Zero Trust capabilities.	
	2. The solution must have participated with strong	
	performance and impressive results in MITRE Engenuity	
	ATT&CK® Evaluations	
	3. The solution must be named a Leader in the latest	
	Gartner® Magic Quadrant for Endpoint Protection Platforms, Q4 2023	
	4. The solution must be named a Leader the latest Forrester	
	Wave™: Endpoint Security, Q4 2023	
	5. The solution should offer comprehensive protection against	
	known and unknown threats.	
	6. The proposed solution should have but not limited to the	
	following prevention capabilities:	
	 Antimalware with signature/Pattern based detection 	
	Ransomware protection	
	 Machine learning - pre-execution and runtime 	
	Browser exploit protection	
	Behavior monitoring	
	Injection protection	
	Script protection	
	Anti-exploit	
	C&C communication prevention	
	Application control	
	File less malware prevention File (usb. reputation)	
	File/web reputation" The solution about offer a combination of signature based	
	7. The solution should offer a combination of signature-based	
	malware protection, behavioral analysis, and Al/machine- learning based analysis.	
	8. Machine learning must have Pre-execution intelligence of	
	extracting file features and run-time analysis of file/process	
	behavior to identify threats.	
	9. The solution must have behavior monitoring module to	
	constantly monitor endpoints for unusual modifications to	

[]		1
	the operating systems or on installed software's to provide	
	additional threat protection from programs that exhibit	
	malicious behavior.	
10	. The solution must have Anti-exploit module to terminate the	
	program exhibiting abnormal behavior associated with	
	exploit attacks. Solution must be able to detect multiple	
	exploit techniques like memory corruption, logic flaw,	
	malicious code injection/execution.	
11	The solution must provide a protection mechanism against	
	ransomware in the event of a machine becoming	
	compromised and should have feature with documents to	
40	be protected from unauthorized encryption or modification.	
12	The solution must be able to create copies of files being	
	encrypted by a ransomware on the endpoint and it must be	
	able to restore the affected files back to their original state.	
13	The solution must be able to identify communication over	
	HTTP/HTTPS protocols and commonly used HTTP ports,	
	it must be able to detect/prevent communications to Global	
	C&C's and Allow administrators to create user defined list	
	also.	
14	The solution should have a virtual patching capability and	
	be able to deliver the most-timely vulnerability protection in	
	the industry across a variety of endpoints.	
15	The solution must support host-based firewall with stateful	
	inspection, option to create rules on the basis of	
	Source/Destination/Port/Protocol/Application to provide	
	stateful inspection and high-performance network virus	
	scanning	
16	The solution must have an integrated Application Control	
	module to enhance defenses against malware and targeted	
	attacks by preventing unknown and unwanted applications	
	from executing on corporate endpoints with a combination	
	of flexible, dynamic policies, whitelisting (default-deny) and	
	lockdown capabilities.	
17	The solution integrated Application Control should provide	
	global and local real-time threat intelligence based on good	
	file reputation data correlated across a global network.	
18	The solution Device Control capability must be able to	
	restrict device access on endpoints by assigning rights to	
	Read, Read/Write, Write and Deny Access. The Devices	
	that are able to be restricted must include but not limited to	
	the following:	
	 USB Storage Drives (Also able to disable autorun) 	
	CD-ROM	
	Floppy Disk	
	Network Drives	
19	The solution Device Control capability must support	
	Network Devices, USB, Mobile Storage, Non-Storage	
	devices, Modems, Bluetooth adapter, Com/LPT, Imaging	
	Devices, Wireless Nic, Infrared devices	
20	The solution must have an integrated Data Loss Prevention	
	capability to provide data leakage prevention.	
21	The solution must have damage cleanup services to	
	provide automated cleanup of the changes made by the	

	malware including network and file-based malicious	
	applications, and virus and worm remnants (Trojans,	
	registry entries, and viral files).	
22	2. The solution is able to perform virtual patching for	
	vulnerable operating systems	
23	3. The vulnerability protection solution is integrated on a	
	single security agent as the endpoint protection	
24	4. The solution is able to dynamically adjusts security	
_	configuration based on the location of an endpoint.	
24	5. The solution should virtually patch known and unknown	
2	vulnerabilities, giving you instant protection, before a patch	
	is available or deployable.	
20	6. The solution should block all known exploits with intrusion	
	prevention signatures.	
2	7. The solution should automatically recommend set of virtual	
	patches for the endpoint platform.	
28	3. Detection and Correlation Requirements	
29	9. Should be able to collect and correlate XDR activity data	
	for one or more vectors including but not limited to -	
	endpoints, email, servers, cloud workloads, and networks.	
30	D. Should include predefined detection models which	
	combine multiple rules, and filters using techniques such as	
	machine learning and data stacking. Should be regularly	
	updated to improve threat detection capabilities and reduce	
	false positive alerts.	
3	1. Should have the ability to enable or disable detection	
	models and add/configure detection model exceptions	
	based on the organization requirements.	
21	2. Should allow the creation of custom detection models and	
	custom event filters that define the events the model uses	
	to trigger alerts.	
33	3. The solution should be able to analyze and determine if	
	certain indicators signal an ongoing attack, enabling SOC	
	team to take timely prevention, investigation, and mitigation	
	actions against targeted attack campaigns.	
34	4. The solution should have the capability to provide	
	recommended actions to harden your environment against	
	future potential attacks.	
35	5. Should list all the events that are mapped into the MITRE	
	ATT&CK framework, the SOC Analyst can use these	
	events as starting point to do further investigations.	
36	6. Should provide more context with mapping to the MITRE	
	ATT&CK TTPs for faster detection and higher fidelity alerts.	
2	7. Should have the capability to write custom search queries,	
	add the saved queries to the watchlist, and automatically	
	execute them against the latest telemetry data on an	
	interval basis.	
38	Investigation and Incident Management Requirements	
39	9. Should be able to provide consolidated investigation and	
	response capabilities across endpoint, servers, emails,	
	cloud workloads, and networks.	
40	0. The solution should have an AI-powered chatbot (AI	

	· · · · · · · · · · · · · · · · · · ·	
	Companion) to guide with the investigations and automatically provide answer to any questions related to cybersecurity.	
41.	Generate a root cause analysis, investigate the execution profile of an attack – including associated MITRE ATT&CK TTPs – and identify the scope of impact across assets.	
	The solution should provide a platform for easier investigation like visual graphical view and timeline of the attack.	
	The solution should support tagging of MITRE tactics, techniques and procedures used by the attacker in alerts and incidents.	
44.	The console should provide different search methods, filters, and an easy-to-use Kibana-like query language to identify, categorize, and retrieve search results.	
45.	Response Requirements	
	Add or Remove indicators of compromise to block list including but not limited to File hash, URL, IP address, and Domains.	
47.	Automatic and manual collection of forensic evidence from specified endpoints and upload the forensic package back to the management console for further investigation.	
48.	Automatic and manual collection of files and objects from specified endpoints.	
49.	Remotely connect to an endpoint and dump process memory.	
50.	Remote isolation of an endpoint but still maintain communication with the management server to continue with investigation.	
51.	Ability to remotely connect and execute custom PowerShell or Bash scripts.	
	Ability to execute custom YARA rules on the specified endpoints.	
53.	Ability to execute SQL queries using osquery to obtain system information on the specified endpoints.	
54.	Remote shell session capability and be able to execute remote commands.	
55.	Submit selected file or object for automated analysis in a sandbox, a secure virtual environment.	
56.	Ability to view and terminate active processes on a specific endpoint or multiple endpoints.	
57.	The solution should provide a unified platform that enables security teams to take immediate response and track actions for both email and endpoints.	
58.	 Threat Intelligence Requirements The solution must collect, organize, and provide an up-to-date information resource for active Threat Campaigns and Threat Actors. Threat Campaign must include information such as Threat Actor profile, Infection Chain, MITRE ATT&CK mapping, Intelligence Data, and Impact Scope. 	

Campaign Intelligence D	
Intelligence Reports, TTI	
Software Used, Associated (59. The solution must support automati	
based on vendor curated an	
intelligence to search your enviro	
compromise.	
60. The solution should allow you to per	form sweeps identifying
indicators of compromise (IoC) a	
(IoA).	
61. The solution should allow a SOC a	analyst to manually add
loCs such as File Hashes, IP Ad	
URL's as part of the custom intellig	
62. Shall be able to view information a	
that has been obtained by analyzin	
sandbox, a secure virtual environm	
63. Deployment, Management, and Op	
The solution must support including Windows Service	•
including Windows Servers	
The solution must support r The solution must support t	
The solution must support L The solution must support L	•
The solution must support persistent V(D) environment	•
 persistent VDI environment The solution must supp 	
solutions without chang	
functionality of your virtu	
systems	
64. The solution deployment model	must support to air-
gapped, on- premises, and hybrid of	• •
65. The solution should have the ca	
variety of actions using Security PI	aybooks to help reduce
workload and speed up security tas	
66. The solution needs to include an	
playbooks against threats and risk	
activity of a file, shutting down an	
an endpoint from the internet, enter	ing files into quarantine,
deleting malicious files and etc	sility to create playbacks
67. The solution should have the capab from scratch or use built-in t	
organization specific needs.	
68. Security playbook template types	should include but not
limited to the following XDR threat	
Automated Response Playt	•
Endpoint Response Actio	
Evidence Collection	
69. Solution should be capable of	of integrating with a
cybersecurity platform that is cap	bable of managing the
organization's Endpoint, Email,	
Security, XDR and Zero Trust solut	
70. Provides insights into the organize	
using an Executive level dashboard	
company's overall risk score, indiv	
of ongoing attacks and its contribut	ing risk factors.

		1
	71. Highly customizable dashboard that provides widgets displaying statistics from Attack Surface, Email, Endpoint, Network, SecOps, XDR and Cloud	
	 72. Solution should be able to display MITRE ATT&CK Mapping for tactics and techniques detected in the organization for the following MITRE ATT&CK matrices. Enterprise Mobile ICS 	
	73. The solution should be able to produce manual and scheduled reports that can be customized to display company information and logo. Generated reports should at least support PDF/PPT format and can be sent to specified email recipients.	
4.0	WARRANTY AND SUPPORT	
4.1	Delivered Devices:	
	 3 years warranty and support for parts, labor, and services 4 hours response time from time of reporting for Chat, SMS, Call and email Support 	
	 8 hours response time from time of reporting for on premise support 	
4.2	Managed Cloud Service:	
	 Three (3) years Managed Cloud Service but not limited to: Monitors the network infrastructure to identify and address issues potentiallyaffecting the service. Implement and manages planned and un-planned changes in configuration andrelated network components. 	
	 Monitors and document service usage for capacity planning and projections 	
	 Maintain service levels needed for efficient operations. Ensure only authorized activity and authenticated devices and users can access the network. Threat management, intrusion detection, firewall 	
	 Threat management, intrusion detection, firewall management, StorageManagement. Collects and analyzes relevant network information to detect and block malicious or suspicious activity and for future capacity planning 	
4.3	Software / Application:	
	Three (3) years after-sales maintenance agreement /service.	
	 The maintenance service shall include updates in accordance with the ICAO requirements, system enhancements, new features, big fixes and support for error handling. 	

	a Support must be sucilable 34/7	
	 Support must be available 24/7 Not more than 4 hours response time from the time of reporting via email,call, SMS and chat with 24/7 alert/notification system Support and Hotline for 2nd level (advanced users) 	
5.	TRAININGS	
	Comprehensive Trainings for:	
	 Administration and End User trainings for Software /Applications Administration and Security for Network Administration 	
	 Training and Workshops for IT and end users: Should be ensured that appropriate training/s for different 	
	 level users areprovided. Training for the software 20 elete Detabase Administration 	
	20 slots Database Administration 20 slots Train-the-Trainor 120 slots End-users	
	\circ Training to be conducted on site.	
	 Must provide training material. 	
	 Must submit training course outline subject to approval User-Meetings 	
	 The winning bidder shall submit the training course outline subject to CAAP approval. 	
	 The winning bidder shall develop, provide, and facilitate transfer of knowledge related to the project, including but not limited to configuration, best practices and method of procedure (MOP) or standard operating procedures (SOPs) for common cloud hosting scenarios to the end users or designated CAAP personnel. 	
	 The winning bidder shall develop, provide, and facilitate transfer of knowledge on comprehensive Cloud Service Outage Plan, which outlines the procedures and protocols to be followed in the event of planned and un-planned cloud service outages. 	
	 The winning bidder shall provide the necessary training modules/manual/materials before the conduct of the actual training. 	
	 CAAP shall provide the name of the participants for the training. 	

Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

(a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

Technical Documents

(b) Statement of the prospective bidder of all its ongoing government and 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; **and**

- □ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; and
- (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission <u>or</u> Original copy of Notarized Bid Securing Declaration; <u>and</u>
- ☐ (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or aftersales/parts, if applicable; and
- (f) Original duly signed Omnibus Sworn Statement (OSS) <u>and</u> if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

(g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) <u>or</u> A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class "B" Documents

(h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence <u>or duly</u> notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- □ (i) Original of duly signed and accomplished Financial Bid Form; <u>and</u>
- \Box (j) Original of duly signed and accomplished Price Schedule(s).

Other documentary requirements under RA No. 9184 (as applicable)

- (k) [For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos] Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
- ☐ (I) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

Section IX. Bidding Forms

TABLE OF CONTENTS

Bid Form Price Schedule for Goods Offered from Within the Philippines Price Schedule for Goods Offered from Abroad

Other Bidding Forms (ANNEX "A") Other Bidding Forms (ANNEX "B") Other Bidding Forms (ANNEX "C")

{ATTACH COMPANY LETTERHEAD/LOGO}

Bid Form for the Procurement of Goods [shall be submitted with the Bid]

BID FORM

Date:	
Latera C.C. and C. and N.L. a	

Project Identification No.: _____

To: [name and address of Procuring Entity]

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/delivery/perform]* [description of the Goods] in conformity with the said PBDs for the sum of [total Bid amount in words and figures] or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized or in the Price Schedules.

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts and within the times prescribed in the PBD;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

[Insert this paragraph if Foreign-Assisted Project with the Development Partner:

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and Address, Amount and Purpose of agent Currency Commission or gratuity

(if none, state "None")]

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of [name of the bidder] as evidenced by the attached [state the written authority].

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity: _____

Signature:

Duly authorized to sign the Bid for and on behalf of:

Date: _____

Price Schedule for Goods Offered from Within the Philippines [shall be submitted with the Bid if bidder is offering goods from within the Philippines]

Na	me of Biddo of	er				Proj	ect ID No	·	Page
1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

For Goods Offered from Within the Philippines

Name: ______

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Price Schedule for Goods Offered from Abroad

[shall be submitted with the Bid if bidder is offering goods from Abroad]

For Goods Offered from Abroad

Name of Bidder _____ Project ID No._____ Page ____ of

1	2	3	4	5	6	7	8	9
Item	Description	Countr y of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

(ANNEX "A")

Annex "A" Form 1	Statement of all On-going Contracts
Annex "A" Form 2	Statement of Single Largest Completed Contract
Annex "A" Form 3	Joint Resolution Form for JVA

{ATTACH COMPANY LETTERHEAD/LOGO}

Statement of all its <u>ON-GOING</u> government and 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

Name of Project: ______

	a. Owner's Name		Contractor's	Role		a. Date Awarded	Accom	plishment	
Name of Contract	b. Address c. Telephone No.	Nature of Work	Description	%	Contract Amountat Award	b. Date of Contractc. Contract Durationd. Date Startede. Date Completed	Planned	Actual	Values of Outstanding Works
Government									
Private									
								of outstanding orks	

Submitted by:

(Print Name & Signature)

Designation:

Date:

{ATTACH COMPANYLETTERHEAD/LOGO}

Statement of single largest <u>COMPLETED</u> contract similar to the contract to be bid

	a. Owner's Name		Contractor's Role			a. Date Awarded	
Name of Contract	b. Address c. Telephone No.	Nature of Work	Description	%	Contract Amount atAward	b. Date of Contractc. Contract Durationd. Date Startede. Date Completed	

Submitted by:

(Print Name & Signature)

Designation:

Date: _____

CAAP-BAC-SF Annex "A" Form 3

JOINT RESOLUTION

Whereas, _______ (Bidder/Name of Particular JV Partner), duly organized and existing under the Laws of the ______, with office address at ______, represented herein by its ______, and ______ (Name of Particular JV Partner), duly organized and existing under the Laws of the _______ with main office address at ______, represented by herein by its _______, have entered into a Joint Venture (JV) Agreement to undertake the following project/ contract:

(Name of Project / Contract)

Whereas, in order to facilitate the orderly execution and conduct of the contract that was entered into by the joint venture in the name of the joint venture, it is hereby resolved by the parties in the Joint Venture as follows:

- a. To appoint ______ as the Authorized Managing Officer and Official Representative, to represent, to manage the Joint Venture and isempowered to enter in contract in the name of the Joint Venture, or to sign for any document in the name of the Joint Venture required by the (Procurement Agency) or any entities pursuant to the terms of the Joint Venture Agreement:
- b. That, the parties agreed to make ______ (N a me of Particular Lead Partner) ______ as the Lead Partner of the Joint Venture and (Name of Authorized Officer) ______ as the Lead Partner of the Joint Venture and (Name of Authorized Officer) ______ as the Official Representative & Managing Partner of the JointVenture, and are granted full power and authority to do, execute and perform any andall acts necessary and/or to represent the Joint Venture in the Eligibility Check, Bidding and Undertaking of the said contract in the name of the Joint Venture, as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation. ______ is fully authorized and empowered to sign any or all documents pertaining to the above statedproject / contract in the name of the Joint Venture.
- c. That the parties agree to be jointly and severally liable for their participation in the Eligibility Check, Bidding and Undertaking of the said contract.
- d. That the terms of the JV Agreement entered into the parties shall be valid and is coterminus with the final completion and turnover of the <u>Name of Contract / Project</u> to the agency of the government, which in this case, the (Name of Procurement Entity);

IN WITNESS THEREFORE, we hereby sign jointly this Joint Resolution this ______ day of ______, 20____in_____.

Name of Bidder (Lead Partner)

Name of Bidder (Member Partner)

By:__

Signature & Name of Managing Officer

Designation / Position

Name of Bidder (Member Partner)

Name of Bidder (Member Partner)

By:__

Signature & Name of Managing Officer Ву: _

By:

Signature & Name of Authorized Authorized Representative

Signature & Name of Authorized

Designation / Position

Authorized Representative

Designation / Position

SIGNED IN THE PRESENCE OF:

Designation / Position

ACKNOWLEDGEMENT

REPUBLIC OF THE PHILIPPINES) CITY OF) S.S.

BEFORE ME, a	Notary Public, for and in the	City of	, Philippines,this
day of_	, 20	_ personally appeared t	he following persons:

NAME

Community Cert. No. Date / Place of Issue

Representing to be the ______of _____ and ______ of _____ respectively, known to me and to me known to be the same persons who executed the foregoing instrument for and in behalf of said corporations and who acknowledge to me that same is their free and voluntary act and deed as well as of the corporations which they represent, for the uses, purposes, and considerations therein set forth and that they are duly authorized to sign the same.

This Instrument consists of three (3) pages including this page wherein this Acknowledgement is written and signed by the parties and their instrumental witnesses on each and every page thereon.

WITNESS MY HAND AND NOTARIAL SEAL at the place and date hereinafter first above written.

NOTARY PUBLIC

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Other Bidding Forms

(ANNEX "B")

Annex "B" Form 1	Bid Securing Declaration
Annex "B" Form 2	Schedule of Requirements
Annex "B" Form 3	Conformity to Technical
Specifications	
Annex "B" Form 4	Omnibus Sworn Statement

CAAP-BAC-SF Annex "B" Form 1

Bid-Securing Declaration

(REPUBLIC OF THE PHILIPPINES) CITY OF_____) S.S. x------x

Invitation to Bid [Insert reference number]

To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
- 3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
 - c. I am/we are declared as the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this_____day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

SUBSCRIBED AND SWORN to before me this day of *[month] [year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by methrough competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M.No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no.

Witness my hand and seal this _____day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission ______ Notary Public for _____until____ Roll of Attorneys No. PTR No. ___, [date issued], [place issued] IBP No. ___, [date issued], [place issued] Doc. No. ____

PageNo.BookNo.Series of _.

CAAP-BAC-SF Annex "B" Form 2

{ATTACH COMPANY LETTERHEAD/LOGO}

Schedule of Requirements

ltemNo.	Description	Quantity	Unit	Delivered, Weeks/ Months

SUBMITTED BY:

Signature:

Printed Name:

Position:

Name of Company: _____

Date:

CAAP-BAC-SF Annex "B" Form 3

{ATTACH COMPANY LETTERHEAD/LOGO}

Technical Specifications

ltem	Specification	Statement of Compliance

SUBMITTED BY:

Signature:	
Printed Name: _	
Position:	
Name of Company:	
Date: _	

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES	3)
CITY/MUNICIPALITY OF)	, I
S.S	

AFFIDAVIT

I, [*Name of Affiant*], of legal age, [*Civil Status*], [*Nationality*], and residing at [*Address of Affiant*], after having been duly sworn in accordance with law, do hereby depose and state that:

1. Select one, delete the other:

If a sole proprietorship: I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. Select one, delete the other:

If a sole proprietorship: As the owner and sole proprietor or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity] [insert "as shown in the attached duly notarized Special Power of Attorney" for the authorized representative];

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable;

- 3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. Select one, delete the rest:

If a sole proprietorship: The owner or sole proprietor is not related to the Head of the

Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- IN WITNESS WHEREOF, I have hereunto set my hand this ____day of ____, 20___at ____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this _____day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified byme through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no.

and his/her Community Tax Certificate No. issued on _____at____.

Witness my hand and seal this _____day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission ______ Notary Public for until_____ Roll of Attorneys No._____ PTR No._____[date issued], [place issued] IBP No.____[date issued], [place issued]

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* This form will not apply for WB funded projects.

Other Bidding Forms

(ANNEX "C")

Annex "C" Form 1Authority of Signatory (Secretary's Certificate)

CAAP-BAC-SF Annex "C" Form 1

AUTHORITY OF SIGNATORY (SECRETARY'S CERTIFICATE)

I, a duly elected and qualified Corporate Secretary of <u>(Name of the Bidder)</u>, a corporation duly organized and existing under and by virtue of the law of the, DO HEREBY CERTIFY, that:

I am familiar with the facts herein certified and duly authorized to certify the same;

At the regular meeting of the Board of Directors of the said corporation duly convened and held on at which meeting a quorum was present and acting throughout, the following resolutions were approve, and the same have been annulled, revoked and amendedin any way whatever and are in full force and effect on the date hereof:

RESOLVED, that (Name of Bidder) be, as it hereby is, authorized to participate in the bidding of (Name of the Project) by the (Name of the Procuring Entity); and in that if awarded the project shall enter into a contract with the (Name of the Procuring Entity) and in connection therewith hereby appoints (Name of Representative), acting as duly authorized and designated representatives of (Name of the Bidder), and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent (Name of the Bidder) in the bidding as fully and effectively as the (Name of the Bidder) might do if personally present with full power of substitution and revocation and hereby satisfying and confirming all that my said representative shall lawfully do or cause to be done by virtue hereof;

RESOLVED FERTHER THAT, the Board hereby authorized its President to:

- a. execute a waiver of jurisdiction whereby the <u>(Name of the Bidder)</u> hereby submits itself to the jurisdiction of the Philippine government and hereby waives its right to question the jurisdiction of the Philippine court;
- b. execute a waiver that the <u>(Name of the Bidder)</u> shall not seek and obtain writ of injunctions or prohibition or restraining order against the CAAP or any other agency in connection with this Project to prevent and restrain the bidding procedures related thereto, the negotiating and award of a contract to a successful bidder, and the carrying out of the awarded project.

WITNESS the signature of the undersigned as such officer of the said this.

(Corporate Secretary)

SUBSCRIBED AND SWORN to before me this day of, 20affiant exhibited to me his/her Community Tax Certificate No._____issued on_____at, Philippines.

Doc. No. _____ Page No.: _____ Book No.: _____ Series of _____ Notary Public

