# PHILIPPINE BIDDING DOCUMENTS

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF THE SAFETY OVERSIGHT MANAGEMENT SYSTEMS FOR THE CIVIL AVIATION AUTHORITY OF THE PHILIPPINES INCLUDING THE HARDWARE AND SOFTWARE COMPONENTS

Bid No. 23-028-08

Government of the Republic of the Philippines

Sixth Edition July 2020

# **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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### Glossary of Acronyms, Terms, and Abbreviations

**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 maintenanceservices, 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

#### Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria (*e.g.*, the application of a margin of preference in bid evaluation).

The IB should be incorporated in the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



# Republic of the Philippines Department of Transportation

# CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

MIA Road, Pasay City, Philippines 1300 www.caap.gov.ph



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. 23-028-08

- 1. The CIVIL AVIATION AUTHORITY OF THE PHILIPPINES (CAAP), through the CAAP Corporate Budget CY2023 intends to apply the sum of **TWO HUNDRED**
- 2. FIF TY MILLION PESOS (Php250,000,000.00) being the ABC to payments 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.
- 3. The CIVIL AVIATION AUTHORITY OF THE PHILIPPINES now invites bids for the above Procurement Project. Delivery of the Goods is required by **Five Hundred Forty** (540) Calendar Days. Bidders should have completed, within the last five (5) 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).
- 4. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "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.
- 5. 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.
- A complete set of Bidding Documents may be acquired by interested Bidders on 23 August 2023 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 56,000.00 (inclusive of 12 % VAT). The Procuring Entity shall allow the bidder to present its proof of payment for the fees by presenting the official receipt in person.

- 7. The Civil Aviation Authority of the Philippines will hold a Pre-Bid Conference *on* 31 August 2023 @ 9:30 AM through video conferencing or webcasting via Google Meet, which shall be open to prospective bidders.
- 8. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before 12 September 2023 @ 9:30 AM. Late bids shall not be accepted.
- **9.** All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
- 10. Bid opening shall be on 12 September 2023, 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.
- 11. 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.
- 12. 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.
- **13.** For further information, please refer to:

## MR. GARY M. JADIE

Head, BAC Secretariat
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

CAPTAIN EDGARDO G. DIAZ

Chairperson, Bids and Awards Committee

# Section II. Instructions to Bidders

# **Notes on the Instructions to Bidders**

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

# 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. 23-028-08

The Procurement Project (referred to herein as "Project") is composed of **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 CAAP COB 2023 in the amount of TWO HUNDRED FIFTY MILLION PESOS (Php250,000,000.00)
- 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 source 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

7.1. 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 (Bidding Forms)**.
- 10.2. The Bidder's **SLCC** as indicated in **ITB** Clause 5.3 should have been completed within **five** (5) **years** 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/IX** (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 e.
  - 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 **Section VII (Technical Specifications).** 

# 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 Declaration<sup>1</sup> 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 twenty [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 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 15 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 **ABC**s 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	Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an <b>SLCC</b> that is at least one (1) contract similar to the <b>Project.</b> The amount of which shall be equivalent to at least fifty percent (50%) of the ABC.
	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:
	a. Supply, Delivery, Installation and Commissioning of Safety Oversight Management System for Aviation Authorities or its equivalent;
	b. Completed within five (5) years prior to the deadline for the submission and receipt of bids.
10.1	Bidder shall submit all eligibility and technical documents as specified in Section IX. Checklist of Technical and Financial Documents:
	Class "A" Documents Legal Documents
	a. Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	<u>or</u>
	b. Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document; and
	c. Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; and
	d. Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR); and
	In connection to GPPB Circular 07-2017 dated 31 July 2017, the bidder shall have the following options:
	1. Submit the Certificate of PhilGEPS Registration and Platinum Membership including its Annex "A" in lieu of the uploaded Class "A" Eligibility Documents identified in Section 8.5.2 of the Revised Implementing Rules and Regulations of Republic Act 9184 (Revised IRR of RA 9184), provided that all Class "A" Eligibility Documents listed under the aforesaid Annex "A"

are all uploaded and maintained current and updated in the PhilGEPS Registry.

- 2. Submit a combination of the PhilGEPS Registration and Platinum Membership including its Annex "A" and Class "A" Eligibility Documents identified in Section 8.5.2 of the Revised IRR of RA 9184.
  - In the event that aforesaid Class "A" Eligibility Document(s) listed in the Annex "A" of the PhilGEPS Registration and Platinum Membership is/are reflected to be outdated, the bidder shall submit such current and updated Class "A" Eligibility Document(s).
- 3. Submit all the Class "A" Eligibility Documents only, provided that the PhilGEPS Registration and Platinum Membership shall be submitted as a Post-Qualification requirement in accordance with Section 34.2 of the Revised IRR of RA 9184.

# **Technical Documents**

- a. 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. (Annex "A" Form 1); and
- b. Statement of the bidder's Single Largest Completed Contract (SLCC) to the contract to be bid, except under conditions provided under the rules. (*Annex "A" Form 2*); and
- c. Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission; or Original copy of Notarized Bid Securing Declaration (*Annex "B" Form 1*); and
- d. Schedule of Requirements (Annex "B" Form 2)
- e. Conformity with the Technical Specifications (*Annex "B" Form 3*), which may include production/delivery schedule, manpower requirements, and/or after- sales/parts, if applicable; and
- f. Original duly signed Omnibus Sworn Statement (OSS) (Annex "B" Form 4); and 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; and

This shall include all of the following documents as attachment to the Omnibus Sworn Statement:

1. Certification, under oath, attesting that they have no pending case(s) against the Government, in addition to the eligibility requirements as

prescribe under the 2016 Revise Implementing Rules and Regulation (R-IRR) of RA No. 9184; and

- 2. Legal Clearance to be issued by the CAAP Enforcement and Legal Service with respect to the non-pending cases of the prospective bidders against this Authority; and
- 3. Bid Bulletins (if applicable); and

## **Financial Documents**

- a. The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and
- b. 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**

a. If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; or duly 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.

Applicable CAAP BAC Standard Forms included in this PBD shall be complied in accordance with the prescribed forms under Section VIII Bidding Forms – Annex "A" & "B".

Modifications and/or alterations on the stated requirements in the financial document forms shall not be allowed.

Bids not complying with the above instruction shall be disqualified.

The second bid envelope shall contain the financial documents for the Bid as specified in Section IX. Checklist of Technical and Financial Documents.

This shall include the complete accomplishment of all of the following documents and shall form part of the bidder's financial documents:

- a. Original of duly signed and accomplished Financial Bid Form; and
- b. Original of duly signed and accomplished Price Schedule.

Modifications and/or alterations on the stated requirements in the financial document forms shall not be allowed.

	Applicable CAAP BAC Standard Forms included in this PBD shall be complied in accordance with the prescribed forms under Section IX Bidding Forms.		
	Bids not complying with the above instruction shall be disqualified.		
12	The price of the Goods shall be quoted DDP [state place of destination] or the applicable International Commercial Terms (INCOTERMS) for this Project.		
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 <b>Php5,000,000.00</b> (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 <b>Php12,500,000.00</b> (5% of ABC) if bid security is in Surety Bond.		
15	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.		
	Bids not complying with the above instructions shall be automatically disqualified.		
	2. Each Bidder shall submit <b>one</b> (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 (CAAP-BAC-SF Annex "B" Form 2).		
	Bids not complying with the above instruction shall be disqualified.		
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.		
19.5	NFCC Computation or a committed Line of Credit from a universal or commercial bank.		

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		
	<ul> <li>a) Latest income and business tax returns filed through the Electronic Fil and Payment System (EFPS);</li> </ul>		
	b) Business licenses and permits required by law (Registration Certifica Mayor's Permit, & Tax Clearance); and		
	c) Latest Audited Financial Statements		
	Failure to submit any of the post-qualification requirements on time, or a fin against the veracity thereof, shall disqualify the bidder for award. Provided, in the event that a finding against the veracity of any of the documents submis made, it shall cause the forfeiture of the Bid Security in accordance Section 69 of the IRR 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

# **Notes on the General Conditions of Contract**

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any **complementary information**, which may be needed, shall be introduced only through the **Special Conditions of Contract**.

### **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 prior to 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

# **Notes on the Special Conditions of Contract**

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

# **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:		
	"The delivery terms applicable to this Contract are delivered at CAAP Main Office. 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 (MISD).		
	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:		
	a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;		
	b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;		
	c. furnishing of a detailed operations and maintenance manual for 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		
	e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.		
	<ul><li>e. Integration cost of the existing system and databases</li><li>f. additional requirements to be provided under the Contract shall include those specified in the Terms of Reference</li></ul>		
	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:

- a. 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
- b. in the event of termination of production of the spare parts:
  - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
  - ii. 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 cost 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 –**

The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.

# 2.2 The terms of payment shall be as follows:

The project shall be paid on the schedule indicated which shall not exceed the ceiling specified:

Project Activity / Milestone	Deliverables	Payment Schedule
Submission of the Inception Report	Signed-off Inception Report	10% of the Total Project Cost
Conduct of Process Flow Assessment  Delivery of all hardware and software component	Signed-Off Report  Delivery of all hardware and software components specified in the TOR	45% of the Total Project Cost
Customization and Testing of the Application	Testing of the Application Accomplishment Report	30% of the Total Project Cost
Revision of Technical Guidance Materials Knowledge Transfer for Admin/End-users User's Acceptance Testing (UAT) Final Acceptance	Approved Technical Guidance Materials  Conduct of Training Sessions  Signed Off UAT  Final Report	15% of the Total Project Cost
TOTAL		100% of the Total Project Cost

Progressive payments based on a milestone upon acceptance by the Procuring Entity of the deliverable/s. The final payment shall be made only after the final report and a final statement, identified as such, shall have been submitted and approved as satisfactory by the Procuring Entity.

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

End of Page

# 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.

Item Number	Description	Quantity	Delivery Days/Weeks/Months
1	Customized Safety Oversight Management System Application	1 lot	
2	Cloud Services	1 lot	
3	Tablet, pc and other ITequipment (specified in Section VII Terms of Reference)	1 lot	
4	Revisions of Technical Guidance Materials and integration of databases and systems affectedby the new system	1 lot	540 calendar days after receipt of Notice to Proceed
5	Training: (specified in Section VII Terms of Reference)  SOMS Application Administration  SOMS Train-the-Trainor	1 lot	
	SOMS Train-ine-Trainor  SOMS End-user		
6	Warranty and Support Agreement/Certificate	3 years Maintenance Agreement	
	Nothing follows		
	TOTAL		540 days

# 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.]
1		
2		
3		
4		
5		
6		

Item	Specification	Statement of Compliance
0	GENERAL	Сопірпапсе
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 the day to day task of the Authority and responses efficiently and effectively with CAAP stakeholders. The Safety Oversight 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).	
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 requirements on Certificate Holders. The SOMS shall help accomplish the following objectives:  • Standardize the work being accomplished across FSIS, AANSOO and other CAAP Offices  • Improve efficiency and collaboration between CAAP and its stakeholders  • Helps CAAP aviation safety inspectors determine risk-based, data-supported oversightdecisions  • Provides a standardized system that will determine compliance with regulations  • Assists in reducing aviation risks and by increasing safety oversight	
0.3	The SOMS shall provide professional support to the oversight functions of CAAP to effectively record the day-to-day execution of 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.  The SOMS shall continue to evolve, improve, and introduce additional enhancements to meet the ever-evolving needs of the Authority.	
1.0	COMMERCIAL ASPECT	
	GENERAL	
1.1	The supplier should have the capacity of developing the required software and provide the services needed during the transition and continued use with the capability of modification depending on the operational needs of the Authority.	

1.2	The supplier should have an available standard software	
	module that is configurable and with complete software	
	licenses.	
1.3	The supplier should be able to provide a detailed description of	
	the following:	
1.4	<ul> <li>Project implementation</li> </ul>	
	<ul><li>Transition plan</li></ul>	
	<ul> <li>Migration and integration of data and system from the</li> </ul>	
	existing database to the new system	
1.5	<ul> <li>Project organization</li> </ul>	
	<ul><li>Project phases</li></ul>	
	<ul><li>Project plan</li></ul>	
	<ul> <li>System of reporting</li> </ul>	
	<ul> <li>Change request handling</li> </ul>	
	<ul> <li>Test to live system</li> </ul>	
	<ul> <li>Extent of involvement of supplier</li> </ul>	
	Customer Service Response	
1.6	The supplier should be able to provide an 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	
1.5	used by regulators in its safety oversight functions.	
1.7	• The project should be fully implemented within eighteen (18)	
	months from the issuance of 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	
1.8	<ul><li>project.</li><li>Provide a platform wherein senior management may have</li></ul>	
1.0	visibility of emerging safetyrisks necessary for the Authority	
	to control and develop a strategy to mitigate them.	
1.9	Able to develop a user friendly application and allows users to	
1.5	adopt with minimal training.	
1.10	Able to develop a system that is efficient in managing audits and	
1,10	compliances.	
1.11		
	• 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.	
	The bidder is required to:	
	Have a previous experience in developing a safety oversight	
	management software for at least two (2) civil aviation	
	authorities with proof of satisfactory performance;	
	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 Civil Aviation	
	Organization's Standards and Recommended Practices (ICAO	
	SARPS), national regulations and other regulatory	
	compliances;	
	The system should be capable of issuing digital certificates	
	with authenticity features (e.i QR codes);	

•	The system should be 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;	
•	The system should be able to show the status of each applicant at each office, the person handling the process, the date when it was transmitted, including the significant remarks made to minimize	
•	delay and persistent follow-ups from the applicants end;  The system should be capable of sending requests for	
	verification and certification to other civil aviation authorities.	
•	The system shall be capable of delegating tasks to other personnel and synchronize calendars across workstations in an organization for an efficient work distribution andmonitoring.	
•	The system should be compatible with any mobile devices and capable of offline accessibility to accomplish inspection checklists and save collected evidence. All tasksaccomplished offline should automatically be saved and synchronize with the system once online.	
•	The system should be capable of endorsing a completed task following the workflow;	
•	Be able to develop a reporting and analysis tool and provide a comprehensive view ofthe safety and security risks from the data gathered in the system;	
•	Able to create dashboards (tables, graphs, pie charts as needed)	
•	Be able to continuously innovate and improve the developed software system in orderto efficiently and effectively meet the operational needs of the Authority in the conductof its safety oversight activities;	
•	The system should be capable of producing data and statistics in relation to the different transactions, activities and information obtained during the use of the system for continued improvement of the Authority's operations;	
•	The system should be equipped with an online payment portal or capable of being linked with the existing online payment portal.	
•	Able to provide onsite and offsite product support to address trainings/technical issues on the use of the system.	
diff (FS Civ SAI mod serv able	esupplier should be able to cater the operational needs of the erent departments of the Flight Standards Inspectorate Service (IS) and AANSOO in order to comply with the International id Aviation Standards and Recommended Practices (ICAO-RPS). Thus, the developed system should be a fully functioning dular system that is capable of supporting an individual office, vice and address the safety oversight function of the Authority to be to cope up with future compliances.	
diff (FS Civ SAI mod serv	esupplier should be able to cater the operational needs of the erent departments of the Flight Standards Inspectorate Service IS) and AANSOO in order to comply with the International il Aviation Standards and Recommended Practices (ICAO-RPS). Thus, the developed system should be a fully functioning dular system that is capable of supporting an individual office, vice and address the safety oversight function of the Authority to be to cope up with future compliances.	

О	The system shall be completely configurable to meet the exact needs of each CAAP offices and its stakeholders malleable in terms of modules, features and aesthetics.
e s	The system shall be capable of migrating and integrating the xisting database of the different offices of the FSIS to the new ystem for the qualifications and trainings of the employees specially the technical personnel.
1	The supplier should be able to develop the following portals:
s A a it	Client Application Portal - The supplier shall be able to develop a takeholder portal to giveclients ease in doing business with the authority. The stakeholders should be able to manage prointments, receive notifications on their transactions, and track as progress which can aid in lessening the administrative burden of the Authority.
d p ii tl	Employee Application Portal – The supplier should be able to evelop a platform that can be used offline by CAAP employees, to erform their functions such as but not limited to audit, inspections, evestigations, research. This shall include a read and review feature that allows the responsible personnel to read and review individual ages that are awaiting approval and act on it.  DETWARE COMPONENT
2.1	ENERAL
T iii (i	The software provider shall ensure a project plan that includes the accorporation 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 unusualtrends 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 thecapability to of an online/offline availability for audit inspections
	<ul> <li>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</li> </ul>

•	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 scores of such examinations.	
Alert	ts	
	The system should be capable of providing different alert notifications that can be associated to persons, organizations, or aircrafts.	
	The system should be capable of providing alert notification for any unusual data changes or delays in the process or transaction	
Tec	hnical 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 server	
•	Multi user application	
•	Scalability (load balancing, clustering of servers) and high availability has to be shown(concept and references)	
•	Multi-level logging via application server for error tracing	
•	Integrated report generator/print engine for issuing certificates, licenses and other documents with distinctive security marks or indicators	
•	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	
Mo	bile Availability	
In c	order to have an effective and efficient workforce, the system	
	uld be capable of being used in mobile devices (e.g. smart phones,	
	et, laptops) with or without an online connection. The data atted during an offline activity should be uploaded and	
inpt	atted during an offinite activity should be uploaded and	

	showing and one online connection has recovered. The following	
	achronized once online connection has resumed. The following tures should be incorporated as part of the mobile features:	
•	The offline auditing tools should allow the FSIS and AANSOO	
	personnel to conduct audits in their mobile devices. The data	
	during offline audits should later be synchronized into the	
	system	
•	The system should be able to generate at least a .pdf format of	
	the report based on a configurable print template.	
•	There should be a secured link between the mobile device and	
	the server in using the web service with data encryption	
Ce	ntral contact and address database	
The	e supplier should be able to establish a hierarchical contacts	
	abase with the following essential features"	
•	Hierarchical management of organizational units	
•	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 respectivedepartment 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	
Per	rmission Management System	
	e Permission Management System should be capable of a flexible	
	I customizable permissions to maintain the appropriate balance of	
	laboration and control to ensure that the data stored by the	
	thority is secure and protected.	
	e system should be capable of performing the following functions:	

•	Permission management is restricted to a few select users. The	
	software account owner and 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 managementenables 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 administrators	
•	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 must include 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 application modules	
•	Definition of: edit, add, view, create and delete rights	
Inte	egrated Reporting Tool	
	system must be able to generate data visualization tools that	
	be used in inquiriespertaining to the data fields present in the erent 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 different modules 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	
fron	system shall be capable of searching data and generating reports n the data available across all modules. The system should be able of the following:	
•	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.	
Ale	rts	

•	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 datachanges	
•	The system should show clear alert symbols in the header information of persons, organizations, and aircraft, and in result lists.	
Sec	urity	
the s	rity is one of the crucial aspects of using technology. As such, ystem should be capable of tracking audit trails for each user using the system, their tasks, actions, edits and the date and time ch 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 systemusers' 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.	
Conf	identiality 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 onlyto 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 theviolators.	
•	a ground for the cancellation / rescission of the project and/or	

	Ownership	
	<b>F</b>	
	Once developed, the ownership of the data base/system shall be retained by the CAAP with the help and technical assistance on the maintenance thereof by the supplier / contractor.	
2.2	GENERAL REQUIREMENTS	
2.2.1	FLIGHT STANDARDS INSPECTORATE SERVICE	
	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	
	<ul> <li>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.</li> </ul>	
	<ul> <li>All examination questionnaires should be synchronized to a single database which can be accessed only by a personnel authorized by the Department Manager of the AEB.</li> </ul>	
	<ul> <li>Examination results should be generated immediately after completion of the exam and recorded to the profile of the examinee.</li> </ul>	
	• The digital copy of the questionnaires shall not be in any way downloadable.	
3	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:	
	Airmen Information  This module shall be able to capture the following examinee information:  PEL  Full name and Photo  License type  School/Company  Course/Degree  Address  Contact number  Email  Date of birth	
	<ul><li>Sex</li><li>Nationality</li></ul>	
	License Type	

Thi	s module will have the list of license type (Pilot, Mechanics, etc.)	
	be used in filing the Airmen information form	
	be used in mining the minimum information form	
Subje	rts	
	ch subject shall have specific subject area (e.g. Airframe Rating	
has	subject areas"Rigging, Sheet metal, Propeller etc.,)	
Eac	ch subject shall have the following fields:	
•	Subject code	
•	Subject name	
•	Subject area	
•	Number of items	
•	Time limit (in minutes)	
•	Date created	
•	Created by	
•	Dates of Revision	
•	Revised by	
Funct	ionalities	
The	e system should be equipped with the following functions:	
Quest	ion Bank	
Ac	latabase of questions with a minimum of two (2) and maximum	
	four (4) choices for the correct answer	
	poard Analytics	
	e Dashboard Analytics serves as the default page of the user	
	er logging in. This shall contain a quick view of the status and	
stat	istics needed by the department such as butnot limited to:	
•	Number of subjects taken	
•	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.	
Repor	rting	
	e system should be able to generate a detailed report of	
	ormation on the database whichis needed by the department in	
	performance of its functions.	
	toring	
	e system should be able to record the status of the Test Report	
	plication from theinitial stage until the results are released.	
	cation	
	e AEB Staff should be able to verify the authenticity of the Test	
_	port either by cross checking in the database or through the	
resi	urity features imbedded in the printed or digital copy of the test	
ļ	des for Examinees	
TATOUR		
•	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 their examination, their examination history, fees	
1	paid and its progress.	
	DAIG AND IIS DIOVIESS	

	notifications from CAAP of anyannouncements related to the examination.
F	xamination Module
	The system should be able to give each examinee an account with their corresponding passwords. Each account should contain the examinees personal, professional and academic details;
	The system should not be able to proceed with the processing of the examination shouldthere be any incomplete requirements that the examinee has to comply;
	• The interface should be user friendly and contain a full instruction of the examination system;
	<ul> <li>The system should be capable of displaying the status of the exam;</li> </ul>
	• 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
	<ul> <li>Such other specifications necessary as determined by the end user that requires modification or alteration of the existing system upon procurement.</li> </ul>
	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 lists 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.	
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 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.	
system contents and all feature requirements for migration.	
The system should allow any modification of features for the	
progress and development of future requirements necessary for	
use of the end user.	
• 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 personnelmaintenance 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:	
<ul> <li>The system should be capable of providing alerts on areas of</li> </ul>	
non-conformance.	
<ul> <li>The system should be able to aid in the confidential conduct of</li> </ul>	
investigations/inspection	
o The system should be capable of issuing certificates with	
security features	
o The system should be able to track compliance with the	
qualification requirements and currency of the flight crew	
and aircraft dispatchers.	
o Such other specifications necessary as determined by the	
end user that requires modification or alteration of the	
existing system upon procurement.	
LICENSING AND CERTIFICATION DEPARTMENT	
As the office responsible for the Authority's compliance with the	
applicable regulations on personnel licensing, the supplier shall	
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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 for license application, verification, and	
issuance.	
• The 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	
Certificate, EnglishLanguage Certificate.	
The system should have the capability of having a drop-down	
list of the following in encoding licenses:	
• Ratings	
© Endorsement	
○ Limitation	
<ul> <li>Automatic encoding of issue date and expiration date</li> </ul>	
• The system should be capable of complying with ICAO	
requirements on other types oflicenses such as but not limited	
to:	
o Ground Instructor	
o Flight Instructor	
o Flight Dispatcher	
o Aeronautical Station Officer	
○ Flight Engineer	
• The system should be capable of migrating data of licenses	
and training organizations from 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 documents forprocessing	
The system should be capable of cross checking and validating	
data from other Modules.	
The system should be able to accommodate requests for	
- The bysicin should be uble to accommodate requests for	

validation from other modules	
validation from other modules	
• 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.	
 pproved Training Organization Module	
Based on the requirements you mentioned, here are the key	
unctionalities that the Approved Training Organization (ATO)	
Module should have in order to cater to the regulatoryneeds of the	
Flight Standards Inspectorate Service:	
. Here Assess Control The control decided have all been	
• User Access Control: The system should have role-based	
access control to ensure that only 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 storing and 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	
allow for the reporting and tracking of incidents and non-	
compliance issues related to ATO operations, ensuring timely	
investigation and corrective actions.	
• Incident and Non-Compliance Reporting: The system should	
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.	

	ntegration with Other Modules: The ATO Module should ntegrate with other modules of the Safety Oversight			
	Management System (SOMS), such as the Document Control			
N.	Module and Audit Management Module, to ensure seamless			
	ata exchange and processintegration.			
	E OF THE FLIGHT SURGEON AND AVIATION CINE (OFSAM)			
	As the office responsible in conducting and evaluating the			
	nedical fitness of the airmen and make recommendations in			
	elation to those findings, the supplier should be able to ensure			
	hat the Authority can securely and efficiently comply with the xisting regulations.			
	The supplier should be able to develop a fully functioning			
	nodular software that is configurable to meet the regulatory			
	eeds of the Authority, ready to use and integrate with the			
	urrent systems on place.  The software must be capable of accommodating online			
	ppointments, payment system, uploading of medical forms,			
ap	pprovals and issuance of appropriate certificates with security			
	eatures.			
	cal Examinations			
	P needs to use a module handling the requirements according to R Part 2 (medicalprovisions) and/or applicable regulations.			
	cal Examiners perform medical fitness checks, for airmen			
	should be capable to fill out the applicable forms electronically or offline and should be able communicate and submit the documents			
	the CAAP - Office of the Flight Surgeon and Aviation			
	cine (OFSAM) using the workstation. OFSAM should be able			
	duate and act on the examinations submitted.			
feature	upplier should be able to develop a software with the following es:			
• C	Calculation of all necessary examinations and computation the			
	alidity of the medicals(even for different kind of examinations			
O	f each person at a certain examination date)			
• N	Modeling an airman's Entire medical examination history			
	Multi-user application: several persons can work on a pool of pplicants via a shared "to-do-list"			
	ystem rights to model different end-user roles with dedicated ermissions within thesystem			
• A	access to complete history for authorized personnel as well as			
gı	rant read rights to otherpersonnel to give access to historical ata.			
	Numerous plausible checks for completeness and dependency of the medical forms			
• R	Re-use availability of old / previous data prior examination			
• P:	Pilot can fill in own application form electronically			
• In	ntegration of data from external equipment (files like PDF etc.)			
• A	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 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 medical examiner 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 can re-print medical certificate with changed data	
•	"Red alert flag" for suspicious applicants (message of the medical examiner to the useropening a suspicious candidate)	
•	Ability to import or scan documents as part of the examinee file	
•	Export of statistical data (anonymous medical data)	
•	Interface to flight crew licensing, air navigation services and address management module.	
•	Aviation medical supervisor can "shift" examinations from one medical examiner to another	
•	Such other specifications necessary as determined by the end user that requires modification or alteration of the existing system upon procurement.	
	ULATORY STANDARDS DEPARTMENT (RSD)	
of the and repo	system should be able to cater the needs of the different divisions he RSD in performingits primary function in the development maintenance of regulations and othe aviation issuances, orting and analyzing aviation trends that may affect safety, and	
man	naging and preserving aviation records:  Comprehensive system to meet the needs of all divisions of the RSD.	
•	Ability to develop and maintain regulations, analyze aviation trends, and manageaviation records.	
• 1	Robust reporting and analytics capabilities for efficient decision making.	
Avi	ation Records Management Division	
•	The system should be compatible with the existing one used by the ARMD for a more efficient transfer of data.	

The system should be equipped with security features for the safe keeping of aviation related documents
safe keeping of aviationrelated documents
1 C
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    The system should be able to handle online transactions for the system should be able to handle online transactions.
retrieving or verifying records, as well as issuing a certificate of authenticity with an integrated security and authenticity
feature.
Technical Library
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 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, as well as a table of contents and
alphabetical indexes.
The system should be capable of Automatic Compliance
Monitoring (connect your Manuals to EASA/FAA regulations
and regulations of other countries that are available)
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) Penerting getakaner.
and Processing System)Reporting gatekeeper  The system should be capable of being gazyraly linked/shored
The system should be capable of being securely linked/shared to service providers 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 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 (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 S	Safety Issues Database	
•	The system should be able to be link, integrate with any existing	
	system and utilize data archived within 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	
Rec	gulatory Standards Development Division	
Res	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, whichwill 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 end user that requires modification or alteration of the existing	
	system upon procurement.	
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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 .

#### Documentations |

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 scheduled activity for audit and at least 2 weeksprior inspection.

ATMSID-AANSOO uses the following documents to facilitate an audit/inspection:

- a. Checklist/Audit Questionnaire for evaluation;
- Forms for reporting on audit/inspection observation or non-compliances;
- c. Forms for the audited/inspected party to respond to auditor/inspector's observationor non-compliance;
- d. Documentation or recording of evidence to support conclusions reached by the auditors/inspectors
- e. Feedback forms to be filled-up by the auditee/inspectee for improvement of ATMSID audit/inspection processes from pre-activity up to submission of outputs (reports).

For audits, ATMSID-AANSOO normally provides the audited party with a copy of the checklists two weeks before the first day of audit or during a pre-audit meeting during the first day of audit (Entry Meeting), and takes measures to protect any working documents that involve confidential or proprietary information.

After audit/inspection or safety investigation, ATMSID prepares audit/inspection or inspection report. An interim audit report, containing findings form should be submitted at least be provided to the auditee, 10 working days after the conclusionof the on-site/remote audit activity. 10 working days, after that, the same findings form should be submitted by the auditee with details on the corrective action plans to be undertaken to address the findings with the position/name of the person responsible for implementation and target date of completion. Another 10 working days after which, the final audit report form should be submitted by the audit team containing comments or acceptance of the auditee's corrective action plans. This final report shall be the basis of the subsequentaudit/inspection activity for the auditee with the aim to verify effective implementation of the agreed/accepted corrective action plans.

For Procedure Design Organization Authorizations, a checklist for evaluation of the applicant's suitability to provide services in accordance to national regulations is required. Upon submission of complete documentary requirements (letter of intent, Manuals, evidence of appropriate aviation experience, certificates issued by other States orinternational organizations, training records, etc.) a Certificate of Authorization with/without imposed conditions will be issued by the DG upon recommendation of ATMSID-AANSOO.

For Instrument Flight Procedure (IFP) approval, a checklist focusing on the required quality assurance processes conducted

	the design organization is employed toassess suitability for
	use and/or publication of the IFP.
	AVIGATION SAFETY INSPECTORATE DIVISION
	O/CNSSID) Fety Regulatory Audit and Inspection
	2 2
reg ser	ISID/CNSSID-AANSOO oversees the compliance of safety gulatory requirements and standards provided by the CNS vice providers through regular audits/inspections and eveillance inspections.
AN cor reg Int Au	dits and inspections are oversight activities conducted by ISID/CNSSID to verify whether the CNS service provider implies and is able to maintain compliance with the applicable gulatory requirements and standards in consonance to ICAO erational Standards and Recommended Practices (SARPs). dits and inspections are a means for evaluating the formance of CNS services in order to ensure aviation safety.
inc	ISID/CNSSID carries out various safety oversight activities luding air navigation facility certification audits and veillance inspections as part of its regulatory function.
pla nav	NSID/CNSSID develops annual surveillace audit/inspection in for the periodic inspection of all ground-based air vigation facilities operated and maintained by CNS service oviders within the country.
nav ava op wh pro	rveillance activities may also be conducted whenever an air vigation facility is suspected to have contributed to an matrial action accident or incident, or whenever significant the erational changes of an air navigatin facility occur, or enever a corrective action implemented by the CNS service evider to address regulatory noncompliance needs to be idated.
CN acc val IC. inc saf Per	ISID/CNSSID also monitors the safety performance of the IS service providers' Safety Management Systems (SMS). To complish this task, ANSID/CNSSID relies on accurate, idated safety data/ information appropriately sorted using AO recommended taxonomies. The safety data/information ludes, but are not limited to, hazards, accidents and incidents, ety risk assessments, safety recommendations, Safety reformance Targets (SPTs), and Safety Performance Indicators PIs). The monitoring aims to provide data-driven commendations to the Director General to determine the

actions to be undertaken to enhance and ensure aviation safety.

#### 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 adavance, 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 whithin 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.

## 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.

# EXPECTED OUTPUT AND FEATURES OF THE SYSTEM

## ANSID, ARCID & ATMSID

Basically, the system should aid the ANSID, ARCID & ATMSID inspectors in managing safety oversight activities and processing collected data and information (e.g. audit and inspection reports, safety occurrence reports, safety assessments,

and investigation reports) and effective monitoring of the three Divisions' surveillance activities, Aerodromes, ATM & ANS facilities' safety performance and safety risk profiles.	
In addition, the system should aid the said three (3) Division with the safety audit/inspection activities during (1) audit/inspection planning; (2) implementation of audit/inspection activities; (3) analysis of inspection/audit result data; (4) managing corrective actions plans; and (5) submission of feedback over the corrective actions and closure of any finding through the following functionalities:	
<ul> <li>Aerodrome and ANS Facility Registration: The system should facilitate the registrationand management of aerodromes and air navigation service (ANS) facilities, including their contact details, operational information, and regulatory compliance status.</li> </ul>	
• Safety Assessment and Auditing: The module should support the conduct of safety assessments and audits of aerodromes and ANS facilities to ensure compliance with safety standards and regulatory requirements.	
• Inspection Planning and Scheduling: The system should enable the planning and scheduling of inspections for aerodromes and ANS facilities, including assigning inspectors, defining inspection criteria, and tracking inspection status.	
Safety Occurrence Reporting: The module should provide a mechanism for the reporting and tracking of safety occurrences related to aerodromes and ANS facilities, ensuring timely investigation and appropriate follow-up actions.	
Compliance Monitoring: The system should allow for monitoring and tracking the compliance of aerodromes and ANS facilities with safety regulations, standards, and recommended practices.	
<ul> <li>Corrective Action Management: The module should facilitate the management and tracking of corrective actions resulting from safety assessments, audits, inspections, or safety occurrence investigations, ensuring timely resolution and closure of identified issues.</li> </ul>	
Safety Performance Monitoring: The system should enable the monitoring and analysis of safety performance indicators and trends for aerodromes and ANS facilities, providing insights for proactive safety improvement measures.	
Documentation and Record Management: The module should provide a centralized repository for storing and managing relevant documents, manuals, reports, and recordsrelated to aerodrome and ANS oversight activities.	
Communication and Collaboration: The system should support secure communication and collaboration between 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 withinthe 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 controlled according 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, surveillance plan 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 evidence to be	
<ul> <li>assessed by the inspectors.</li> <li>6. The system should have a separate page for access by the service provider responsible personnel, for on-line self-assessment</li> </ul>	

	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).	
13.	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 should also have an archive page where all versions of aerodrome operators manuals and submanuals, OLS, safety assessments and other documents.	
	The system should be capable of archiving/uploading and updating training records of Inspectors, and inspectors' profile	
	The system should have dedicated trained personnel (from system provider) for the regular comprehensive maintenance and troubleshooting assistance.	
16.	The system should allow any modification of features and such other specificationsnecessary as determined by the end user.	
RS	SSD	
Sta	and and Regulation Development and Amendment or Revision	

	ystem should come up with a module capable of online	
	oration with the concernedTechnical Working Group (TWG)	
	e Regulations Review Committee (RRC) in the development	
	mendment or revision of regulations and standards. The	
	e should:	
	Clearly indicate the Civil Aviation Regulations (CAR) and	
	Manual of Standards (MOS) with a subject overview.	
b. C	Convert the State Letter/Petition from PDF to Word file format.	
c. P	Provide a portion for the specific provision of the State	
	etter/Petition, which will be used as a reference for the	
	uggested/affected CAR and MOS provision.	
	automated identification of suggested/affected provision/s of	
	CAR and MOS	
	Provide portions for; (i) specific CAR and MOS Provision	
	be amended, (ii)RSSD proposed text, (iii) TWG input, and	
	iv) Final Text.	
	Be able to generate printable Working Document,	
	Memorandum Circular and Advisory Circular.	
_	Have the capability to store all documents in a consolidated	
	ersion or edition/issue related to the amendment and/ or	
re	evision 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	
Avioti	existing system upon procurement.	
	ion 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	
•	System needs to have an SDCPS (Safety Data Collection and	
	Processing System) Reporting gatekeeper	
	771	
•	The system should be capable of being securely linked (shored to convice providers (apparentage or other office)	
	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	
	incidents and near miss reporting, investigation, and action tracking	
	6	
•	The system should be capable of classifying and	
	categorizing the different risks as per SMICG Hazard Taxonomy	
	LUNOHOHIY	

•	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 (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,	
Techni	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 ments used by AANSOO personnel in their dailytasks. The	
suppli	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	
•	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, as well 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 Sat	fety Concerns Database	
•	The system should be able to link, integrate and utilize data	

	archived within the organization	
	<ul> <li>System should be capable of integrating options of the SDCPS</li> </ul>	
	, , , , , , , , , , , , , , , , , , , ,	
	<ul> <li>The system should be capable of performing Audit Management from scheduling toClosure</li> </ul>	
	The system should be capable of managing non-	
	conformance, corrective and preventiveactions	
	<ul> <li>The system should be able to store Audit and Inspection findings made by AANSOOInspectors</li> </ul>	
	<ul> <li>The system should be able to generate risk profile from amongst the Service Providers/Operators audited and inspected.</li> </ul>	
	• The system should be able to generate trends and Analysis (Tables, graphs) dashboards	
	The system should allow any modification of features for the progress and development of future requirements necessary for use of the end user.	
	ETAILED SPECIFICATIONS	
	icensing- Flight Crew	
В	ackground Definition Data	
	The system should be able to handle following background definition data:	
	• The examinations (theoretical and flight examinations) and the conditions fortheir assignment	
	• Text modules (e.g. for flexible usage when printing a license)	
	• The components and the conditions for their assignments. A component is described by its type (extension, license,.), rating, level of license, category	
	• The assignment of ratings (class or type ratings), text 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. The condition 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:	
<ul> <li>The pilot's age limits</li> </ul>	
Necessary medicals	
Necessary flight experiences	
<ul> <li>Necessary examinations</li> </ul>	
Necessary flight examinations	
<ul> <li>Necessary instructor components</li> </ul>	
<ul> <li>Necessary examiner components</li> </ul>	
<ul> <li>AND-conditions, which can include various conditions themselves too</li> </ul>	
OR- conditions, which can include any conditions too	
Also, the system may be able to define relevant data for billing, such as:	
○ Theoretical examinations	
o Practical examinations	
○ The initial acquisition of components / ratings	
<ul> <li>The renewal or revalidation of components / ratings</li> </ul>	
o 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	<u> </u>
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:	
<ul> <li>The basic data from the address and contact data base (personal data such as name, address, picture, signature)</li> </ul>	
<ul> <li>The basic data from the licensing system (pilot status, authority / examiner / authority status,)</li> </ul>	
o 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 betweenexaminations, maximal number of repetitions, maximal waiting period, examiner and flight instructor being	
the same person, etc.)	

- O 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 are fulfilled.
- O 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 upon assignment 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)
- o Other criteria specified by the CAAP.

By means of a rule tree we shall be able to define which preconditions a pilot must fulfil in order to qualify as a flight instructor or examiner for an examination.

## **Rule Checks**

The 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
- o Check of examiner during entry of pilot examinations
- o 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

## **Internal Cross-Check**

- o The system shall check cross referenced data.
- During pilot data entry the examiner and instructor may be checked in the system.
- 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

Billing	<u> </u>
The following features may be integrated in billing preparation:  O Automatic and manual creation of a billing statement  Export of billing statement information to an external billing system  Listings of open invoice/billing statement  Exactly shout invoice/billing statement	g
<ul> <li>Feedback about invoice/billing statement status</li> <li>Configuration of rates for several activities in the backgroun definition data</li> <li>List of billing statements</li> <li>Groups of persons without charges</li> </ul>	d
History	
The user shall be able to view the history of changes on the background definition data. He can evaluate the data according to a range of filter criteria, which will sortthe data accordingly.  The change history of a pilot's data can be traced as well. A whole	
range of filter criteria (type of change, date of change, user name, and action) is available to sort the history data accordingly.  The history function shall register all data changes (also the	
previous content), bothaddress data and pilot specific data.  Reporting and Printing	
The system shall allow searching for specific fields (user configurable). These are for example: pilots' examinations, components, ratings etc. The result lists can be printed or exported	
(as PDF files, template letter, Excel-list or label print).  Licenses should be printed directly and viewed in a preview first.  The same applies for 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 o	n
the database.	
Interface to Examination System  Once an examinee has booked an examination, it can be transmitted automatically to 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	
<ul> <li>External Persons shall be able to self-register</li> <li>Access to the licensing personal information should be possibl (configurable content)</li> <li>Download of applications shall be possible (PDF) format, partially pre-populated with data of the applicant</li> <li>Uploading of applications (PDF) and attachments shall start a configurable workflow within the CAAP</li> </ul>	
The web user shall be able to see the status of the workflow vi WEB client  Add Endorsements:	a
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 whichprivileges 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.	
personal a 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.	l
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 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	
data.	
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	
Licenses, which include but not limited to:	
Personal data including picture and signature	
• Ratings	
• Experiences	
• Endorsements	
Unit Endorsements	
<ul> <li>Language Endorsements (if applicable)</li> </ul>	
• 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.	
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	
 salary of the medicale (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 rightsto other personnel 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	
•	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 medical examiner 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 tothe user opening a suspicious candidate)	
•	Ability to import or scan documents as part of the examinee file	
•	Aviation medical supervisor can "shift" examinations from one medical examiner to another	
•	Interface to flight crew licensing, air navigation services and addressmanagement module.	

Г		
•	Export of statistical data (anonymous medical data)	
Apr	proval 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 should handle auditing aspects as well as the relevant information for	
The	different certificates and the management of these. certification of organizations can be viewed from different	
aspe	-	
•	Certificates and approvals	
•	Audits Background definition data	
	tification Project Management	
	expect the support of the structured application process with the	
syste		
The	system shall have: Hierarchical checklist templates to define a typical certification process like the ICAO 5 Step approach with unlimited substeps Team definition with competencies	
0	Due dates for each step and sub-steps Document management integrated	
0 0	Hyperlinks to certificates, persons, companies, audits etc. Clearance needs to be documented Workflows should be triggered (configurable workflows, configurablesituations)	
Diff	erent Application Areas	
ce the an all	e expect handling of the different certificates, approvals and rtification processwith audits and inspections. The modelling of e history of all certificate-relevantdata (in revisions); and audits d inspections play a main role. The system should be modular, lowing potential extensions to other certification activities.	
W	e expect the handling of following application areas:	
0	Air Operator Certificate (AOC) and Operations Specification	
0	Approved Maintenance Organizations	
0	Flight Schools	
0	Maintenance Training Organizations	
0	Dangerous Goods handlers	
0	Aerodrome Certification, registration and permits-to-operate	
0	PANSOPS approval	
0	Air Navigation Facilities Certifications	

Etc.... (in accordance with the Philippine Civil Aviation Regulations, CAR Aerodromes and CAR-ANS) Specific Data of an Organization Audit and Inspection reports Approvals and Authorizations from CAAP Foreign approvals (if applicable) Document repository Directory with amendments of expositions Special management view on staff of a company (competent persons in various positions) Hierarchical view of organization/sub-organizations (departments) and their appending certificates, audits ... in a tree. This tree can be filtered to hide irrelevant data. • The tree view should be switchable for different certificate types as documentednecessary o Technical data of the certificate based on different certificate configurations (based on hierarchical rating system or special data screens for operations Specifications Tasks of Inspectors and other safety personnel Planning by schedule, company and personnel (planning calendar) Assignment of staff to specific organization o 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. o Management of to-do lists with expiration date for inspectors (periods of certificates, deadlines of findings, views within the case management system) o Planning and corrective overview of audits on a timeline (affected organizations, inspectors, location, etc...) o Different filters to certain tasks may be searched by, but not limited to: Organization Inspector Audit/Inspection Aircraft M/M/S Location Dates

Recommendation

Certificate

o Projects	
o Findings	
o 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	
<ul> <li>Aerodrome (Certification, Registration and Permit to Operate),PANSOPS,</li> <li>ANF Certificates</li> </ul>	
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:	
o 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	
<ul> <li>Possibility to link certificates to projects (including definition of project team)</li> </ul>	
Management of interdependencies of certificates (e.g. schedules to maincertificate) and required certificates	
<ul> <li>Management of complete certificate history (renewal, variations, changes,)</li> </ul>	
<ul> <li>Linking of audits to certificates</li> </ul>	
o 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	
	ocumenting audits/inspections and to track the findings. The ollowing 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.	
Rad	ckground Definition Data	
Da	angi vanu Deminion 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.  To define which law articles and chapters of manuals from industry are relevant for 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 onto a law's directive and regulations' chapter.  Import/Update interface for laws, regulations and questions  Management 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. Predefined reports shall be determined by CAAP upon implementation.  Airworthiness  Type Certification  This system shall contain the complete management of data sheets and type certificates, the environmental 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 cer			
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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:	
o the holders of the type certificates	
o the holders of supplementary type certificate's	
o the supplementary type certificates themselves	
o the manufacturers of aircrafts	
o the manufacturer of parts and appliances	
o the parts and appliances themselves	
o 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 likename, type (aircraft, engine, propeller), category (airplane, glider, piston engine, jet engine,), serial number, ICAO identification, maximum, etc (Assigned basicdata 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 thedefined 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.	
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 withtheir 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 holder of 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	
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 bunch of own and assigned data including:	
Registration mark	
o Some dates of reservation, registration, deletion,	
o Type of ownership	
<ul> <li>Current and previous location</li> </ul>	
<ul> <li>Aircraft address</li> </ul>	
Responsible inspectors	
<ul> <li>Complete history of all inspections</li> </ul>	
<ul> <li>Administrative suspensions</li> </ul>	
<ul> <li>Complete history of all owners ever involved (main and part) and holders (mainand part)</li> </ul>	
<ul> <li>Complete history of all suspensions, their reasons and their date of start and end.</li> </ul>	
The assigned data from module Type Certification:	

All-important data of the type certificate of the aircraft	
The environmental certificate	
<ul> <li>The serial numbers and years of construction of all contained type certificates (the aircraft body, potentially the engines and propellers)</li> </ul>	
<ul> <li>Data about standard category and special category (if applicable)</li> </ul>	
<ul> <li>Complete history of all board documents.</li> </ul>	
<ul> <li>Certificate of Registration</li> </ul>	
Temporary airworthiness certificate (if applicable)	
<ul> <li>Certificate of Airworthiness</li> </ul>	
<ul> <li>Noise certificate</li> </ul>	
<ul> <li>Confirmation of inspection</li> </ul>	
o Permit to Fly	
<ul> <li>Environment Certificate</li> </ul>	
<ul> <li>Export Certificate of Airworthiness</li> </ul>	
It shall be easy to determine who has created which certificate on which date, whenit was last printed. Furthermore it shall be possible to generate a duplicate certificate if the original document was lost.	
All printed board documents shall be saved as PDF documents and can be easily reviewed and reprinted.	
Complete history of all accidents an aircraft had, including:  o Date and location of accident	
o Flight crew involved	
<ul> <li>Consequences like damages on aircraft, injuries or death of passengers and/orcrew</li> </ul>	
Inspections executed thereafter	
<ul> <li>Information about insurances:</li> </ul>	
Insurance of aircraft	
<ul> <li>Insurance of passengers</li> </ul>	
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 andthe 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 circraft	
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.	
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:  o the operator itself o the various sites (locations), where the flight simulators are operated o the flight simulators	
<ul> <li>the variants of flight simulators simulating distinct</li> </ul>	
ratings (e.g. A300,  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 upcoming due dates close or already overdue.  The system has to support the printout of the certificates	
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)	
Workflow Management	
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 trigger	rs). The system shall
work as data storage for documents and data (	•
of data fields) till the workflow finishes.	
workflow with all steps performed shall be do	•
The workflow shall have an import / export	
workflow templatesbetween test and production	on environment.
Workflow can help to establish well defined	d processes guiding
people to accomplish recurring tasks in a repr	oducible way.
Workflow designers shall create workflow ten	nnlates by defining a
chain of tasks /or parallel tasks that need to be	
assignable group of people. Thetasks can co	* · · · · · · · · · · · · · · · · · · ·
condition checks. It can or should a non-negoti	
automatic tasks like sending e-mails wit	=
completed by data taken from the workflow.	=
call sub workflows. Sub processes occurring	
be defined in every workflow and can be re-u	
person working on the task can enterdata being	g stored related to the
workflow. In case the workflow deals with o	data fromthe CAAP
solution like persons or license holders, the	workflow user can
easily view the related data from within the v	
integrated into the solution).	
While a workflow is in process it shall alway	s be possible to add
documents to the workflow or to make not	=
information related to the workflow.	es to keep track of
All the users participating in a workflow can v	view their open tasks
in a personal task list. From this list they can	
to work on. The tasks list is highly configurable	ie to only snow tasks
and data the user is currently interested in.	
It shall also be possible for a user to tempora	v 1 1
so it is not shown in his task list for a	
automatically appearing again after that timep	
Supervising officers shall easily keep track a	bout tasks requiring
their attention. They can reassign tasks to other	er officers.
Workflows can implement a supervisor chec	k so the work of an
officer will always be checked by his supervise	
in the predefined flow.	
A workflow designer can define due dates a	workflow must be
finished within (timeperiods).	
The workflow tool shall allow the mode	lling of automated
decisions (based on configurable business	
underlying data.	o logic) using the
At the end of a workflow the tool shall allow	y the automation of
tasks (storage of data and documents) in the	unicion application
areas of the backend systems.	des data and
In case a workflow is not completed before the	·
e-mails can be sent (internally and to the sta	
workflows can be triggered (escalation manag	
It shall be possible to integrate the workflow	-
infrastructure by exchanging data with other sy	
enterprise system. Other systems can send re	=
system triggering a workflow to start. After th	e bespoke workflow
is finished it sends a response back to the other	er system containing

data defined by the workflow designer.	
Using the WEB together with Workflow shall enable pilots, mechanics and among others 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 aninput 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.	
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 <sup>rd</sup> party systems	
duta into other 2 party systems	
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:	
<ul> <li>Multipurpose Tool for inspectors, analysts and decision makers</li> <li>Risk-based Oversight Checklist planning (content and cycle) andassessment</li> <li>Risk Profile of Service Provider, Ranking</li> <li>Interconnected dashboards, switch from one view to another (browse mode, drill-down).</li> </ul>	
<ul> <li>Suitable for all regulated aviation areas (different categories of serviceproviders)</li> </ul>	
<ul> <li>Tool properties:         <ul> <li>Integration in bespoke main solution</li> <li>Data collection, processing, representation, storage (revision safe, timelinetrends)</li> </ul> </li> <li>Reproducible result + comprehensible setup and usage + traceable</li> </ul>	
<ul> <li>Indicators: Derive indicators from raw data (reuse raw data in differentindicators)</li> </ul>	
<ul> <li>Different types of raw data</li> <li>Facts (e.g. number of employees, fleet-size)</li> <li>Assessed and rated surveillance elements (checklist)</li> <li>Extract existing data from database</li> </ul> Evaluation	
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The system must provide the user with the ability to present the indicators that were 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.	
cture 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 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 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 elements of the hierarchy, a certain element is used.	
The system must ensure that only authorized users can manage the master data.	
hering of data	
The system must provide the user with the ability to create checklists for surveillance 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 these categories 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	
The system must provide the user with the ability to answer surveillance element questions of the checklist either by	
	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.  Cture of master data  The system must provide the user with the ability to define and use a hierarchicalstructured 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 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 elements of the hierarchy, a certain element is used. The system must provide the user with the ability to create checklists for surveillance 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 these categories 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 surveillance element qu

•	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	
Inte	erface/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	
Evon	master data from(previously exported) xml-files.  mination System	
	<u> </u>	
runc	ctional 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 suchas 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.	
Syste	em 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.	
Inter	facing Requirements	
wi sy on	ne Examination System should also be capable of interfacing ith other software packages such as financial management stems, and the bespoke CAAP management system, and with aline booking and payment options.	
Secu	rity Requirements	
of ex	ne Examination System shall be designed to provide a high level security for the stored question bank, any set papers and amination candidate and examination result data.	
	shall be possible to create different levels of User Administrators d 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.	
<ul> <li>Each question shall be uniquely identifiable in the Examination System.</li> </ul>	
<ul> <li>The Examination System shall be capable of randomizing the question and answer options available to each examination applicant for the same examination.</li> </ul>	
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 typequestion, Category.	
<ul> <li>The Examination System shall be so designed as to enable easy search for and location of specific question(s).</li> </ul>	
<ul> <li>The Examination System shall be so designed as to enable importing and exporting of data such as question banks in various formats.</li> </ul>	
<ul> <li>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.</li> </ul>	
<ul> <li>The Examination System shall be capable of attaching and displaying various file formation such as image files, video files, pdf files, doc files, etc.</li> </ul>	
<b>Examination Candidate Interface</b>	
• 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.	
<ul> <li>Each examination candidate shall be provided with a unique login to enable them to access specific examinations assigned to him or her.</li> </ul>	
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.	
<ul> <li>System access must be controlled by the use of individual usernames and passwords.</li> </ul>	
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:  O Skills: acquired by attending courses or by having appropriate proficiency	
<ul> <li>Tasks: to be fulfilled during ongoing training program organized by CAAP</li> </ul>	
The details to be handled as definition data for skills and tasks:	
<ul> <li>Validity of skill/task</li> <li>Aviation Sector</li> <li>Category</li> <li>Name and Type (skill or task)</li> </ul>	
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 shall be 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 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 is a collection over live time.	
The competency of the person needs to be connected to the surveillance component to respect the underlying data about his	

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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 enablethe case handlers to	
decide on the further processing of the report. This information shall 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 information shall 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 information from 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 on recommendations 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.	
<ul> <li>The system must provide the user with the ability to handle incoming cases in an inbox.</li> <li>The system must provide the user with the ability to manually</li> </ul>	
<ul><li>log changes of the cases.</li><li>The system must provide the user with the ability to search for</li></ul>	

	• The system must provide the user with the ability to merge cases based on their similarity.	
	• 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.	
Ca	ase details	
	<ul> <li>The system must provide the user with the ability to create, edit and delete cases.</li> </ul>	
	<ul> <li>The system must provide the user with the ability to print case details.</li> </ul>	
In	terface	
	• 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.	
Re	eports	
	• 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.	
In	terfacing 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	<u>ervices</u>	
	Description of necessary services for the project, such as:	
	Project Management	
	Quality Management	
	Customizing for Adaptations	
	<ul> <li>Training and Workshops for IT and end users:         <ul> <li>Should be ensured that appropriate training/s for different level users are provided.</li> <li>Training must include setup and configuration for administrators (remote/on-prem), client support and end-users.</li> <li>12 slots System Administration</li> <li>12 slots Train-the-Trainor</li> <li>120 slots End-users</li> <li>Training to be conducted on site.</li> <li>Must provide training material.</li> <li>Must submit training course outline subject to approval</li> <li>User-Meetings</li> </ul> </li> </ul>	
	Software Maintenance Agreement for 3 years	
$\dagger$	• Support must be available 24/7	
	-	

	T			
	o Not more than 4 hours resp			
	of reporting via email, cal			
	24/7 alert/notification syst			
3.0	• Support and Hotline for 2 <sup>nd</sup> level (advanced users)			
3.0	HARDWARE COMPONENT			
	<b>CLOUD HOSTING GENERAL REQUIR</b>			
	SERVICE) FOR PRIMARY AND SECON	DAY SITES:		
	To maintain a resilient, efficient and second	ure Cloud Service		
	Must be at least Tier 3 Local Cloud Host	ting Facility		
	Concurrently maintainable faci source/redundancy for power and coolin	1		
	Does not require a total shutdown during replacement			
	Must also have N+1 availability (able to load plus additional components as fai scenario)			
	Backup solutions that can keep operation local or region-wide poweroutage	ons running in case of a		
	The facility must ensure equipment can eleast 72 hours following anoutage	continue to operate for at		
	Maximum allowable downtime per year	1.6 hours		
	Internet service should be at least 50mbp	os leased line		
	<ul> <li>Cloud services account name should be of the Philippines</li> </ul>	Civil Aviation Authority		
	Data Center Parameters Uptime guarantee  TIER 3 99.982%			
	Downtime per year <1.6	hours Component		
	redundancy Full	N+1 Concurrently		
	maintainable	Partially		
	Compartmentalization	No		
	Staffing	1+ shift		
	Certifications and Compliance ISO 9001, ISO 27001, and PCI-DSS, EIA/TIA 528BCompliant			
	Seismic Zone PhilVolc Seismic Zone 4			
	Fire Protection Standard (in DC) NFPA Standa	ard 2001 (at least)		
	Flood Risk at least 80ft above sea level			
	CCTV Coverage PCI-DSS Compliant			
	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.			

## Managed Cloud Service with Dedicated Active-Active ConfigurationMinimum 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)20TB of Usable Storage

(per site)

At least 512GB NVMe 0.3DWPD M.2 SSD

(on each node) At least 512GB 3200MHz

RDIMM Memory (on each node) 960GB

SATA 6Gbps 1DWDP SFF SSD, S4510

3x3.84TB SATA 6Gbps 3DWDP SFF SSD S4610

10GBit Back-end Network for

connectivity Microsoft Data

Center Server 2022 (or equivalent)

MS SQL Licenses

#### 150 Microsoft CAL

#### 3 years subscription of required SSL

### 2 Units Security Firewall (Security-as-a-Service Primary and Fail-Over Site)

#### **General Features**

- a. Enterprise-grade prevention, detection, correlation and response from the perimeter to the end-point
- b. Latest generation multi-core processors to run all security scanning engines in parallel without causing performance bottlenecks.
- c. Provide critical insights about network security, from anywhere and at any time
- d. Detect and kill malicious network traffic.
- e. Real-time analysis of all incoming and outgoing packets.
- f. Quarantine rogue agents and bad actors
- g. Stopping ransomware and other nefarious activities
- h. Stopping viruses and malware
- i. Halting impersonation fraud
- j. Shutting down business email compromises
- k. Preventing theft of intellectual property
- 1. Blocking fuzzing, hacking and machine learning poisoning
- m. Ending data compromises and data theft
- n. Built-in compliance reports, including PCI and HIPAA

MINIMUM THROUGHPUT	
Firewall (UDP 1518) 8 Gbps	
Firewall (IMIX) 4.7 Gbps	
VPN (UDP 1518) 4.6 Gbps	
VPN (IMIX) 1.4 Gbps	
HTTPS Content Inspection (IPS enabled) 800 Mbps	
Gateway Anti Virus 3.0 Gbps	
IPS(fast/full scan) 4.8/2.5 Gbps	
UTM(fast/full scan) 2.6/1.7 Gbps	
MINIMUM CAPACITY	
Interfaces 10/100/1000 8	
I/O interfaces 1 serial/2 USB	
Concurrent connections 3,300,000	
Current connections (proxy) 330,000	
New connections per second 51,000	
VLANS 200	
WSM licenses (incl )	
TDR Host Sensors included 150	
Authenticated users limit 500	
VPN TUNNELS	
Branch Office VPN 100	
Mobile VPN 100	
MINIMUM SECURITY FEATURES	
Firewall Stateful packet inspection, deep packet inspection,	
proxy firewall	
Application proxies HTTP, HTTPS, FTP, DNS, TCP/UDP,	
POP3, SMTP, IMAPS, POP3S and	
Explicit Proxy	
Threat protection DoS attacks, fragmented &	
malformed packets, blended threats,	
VoIP H.323, SIP, call setup and session security	
Browser Safe	
VPN and AUTHENTICATION  Classification A WS (Statis / Demands) A result	
Cloud providers AWS (Static/Dynamic), Azure	
(Static/Dynamic)Encryption AES 256-128 bit, 3DES, DES	
IPSec SHA-2, IKE v1/v2, IKE pre-shared key, 3rdparty cert, Suite B	
Single sign-on Windows, Mac OS X, mobile operating	
systems, RADIUS, SAML 2.0 Authentication RADIUS,	
LDAP, Windows Active Directory,	
VASCO, RSA SecurID, internal database, SAML 2.0, SMS	
Passcode	
CERTIFICATIONS	
Security* ICSA Firewall, ICSA IPSec VPN, CC EAL4+,	
FIPS 140-2 Safety NRTL/C, CB	
Network IPv6 Ready Gold (routing)	
Hazardous substance control WEEE, RoHS, REACH	
NETWORKING	
Routing Static, Dynamic (BGP4, OSPF, RIP v1/v2), Policy-	
based routing	
High Availability Active/passive, active/active with load	
balancing QoS 8 priority queues, DiffServ, modified strict	
queuing	

	IP address assignment	
	Static, DHCP (server, client, relay), PPPoE, DynDNS	
	NAT Static, dynamic, 1:1, IPSec traversal, policy-based,	
	Virtual IP for server load balancing Link aggregation	
	802.3ad dynamic, static, active/backup	
	Other features Port Independence, Multi-WAN failover and	
	load balancing, server loadbalancing, host header	
	redirection, USB modem as a dedicated	
Internet	Service Bandwidth (With redundancy per site)	
	At least 50 MBPS of Dedicated Internet Service	
	At Least 14 Usable IPs per site	
Rackun a	and Recovery Software	
Вискир (	Enterprise-grade protection and recovery of Virtual	
	machines, containers, databases, applications (including	
	cloud), endpoints and files	
	Able to manage beeked up date and workloads with	
	Able to manage backed-up data and workloads with	
	efficiency and security, both on-premises and in private	
	cloud	
	D 1 1 1 1 10 11 10 1	
	Role-based access control that enables self-service,	
	restricting unauthorized access.	
	Automated backup and recovery of VMs, containers,	
	applications, databases, endpoints and files	
	Data security and resilient ransom-ware protectionSupport	
	for all major cloud vendors	
	Support for all major snapshot vendors	
Backup		
	Protection of virtual machines, applications (including cloud),	
	databases, endpoints, files	
	Policy-driven automation, monitoring and reportingCustomized	
	and a dealer to second over CY A	
	schedules to meet any SLA	
	De-duplicated data for more efficient data transmission	
	Auto-discovery provides proactive protection of newly added	
	data-setsCustomized retention for recovery and compliance	
	Configurable encryption both at-rest and in-transit	
Recovery	1	
	Decovery of virtual mechines applications (including alord)	
	Recovery of virtual machines, applications (including cloud),	
	databases, endpoints, files	
	Recovery of entire system, instance, or application	
	Granular single file recovery	
	In-place to same location or out-of-place to different location	
	,	

	_
Latest data in point-in-time	
Migration and integration of existing databases and systems	
Migration of workloads from on-premises to the cloud, or between	
Fully automated processes; no need for customized scripts	
No downtime to production systemsData portability between clouds	
Hardware Snapshot Integration	
Leverage hardware snapshots for near-instant recovery of entire data volumes	
Support for all major snapshot hardware vendors	
Automated snapshot backup and recoveryCustomized snapshot retention	
Cloud Integration	
Utilize the cloud for scalability, mobility, availability and cost reduction for productionworkloads.	
Support for all major cloud vendors	
Single platform for both on-premises and cloud data management Backup, recovery and migration to the cloud, in the cloud, from the cloud	
Maintain compliance oversight	
Flexible Storage Options	
Retain copies of protected data in one or multiple locations Disk library – individual hard disks or RAID array Cloud storage – all major vendors supportedNetwork- attached storage (NAS)	
De-duplication for more efficient – and cost-effective – data storage	
Supplier's proposed brand of Andriod Tablet, Laptop and Mini PC must have been locally and internationally marketed and sold for at least ten years prior to the scheduled date of bid opening	
200 Units 11inch Android Tablet	
Resolution at least 2800 x 1600 on at least 11" display or higher, anti-fingerprint, touch screen	
Dolby Audio	
Processor At least Octa- Core @2.0GHz (or at least equivalent) or higher	
Operating System At least Android <sup>TM</sup> 10 (or at least	

equivalent) or higher

Memory At least 8GB or higher

Storage At least 256GB UFS 2.1 or higher

External Storage up to 1TB

Accessories book cover keyboard and pen

WIFI ready/ Bluetooth

With webcam/speaker

#### 100 Units Mini PC

Processor: 10 Cores, 16 Threads

Memory: 16GB DDR4

Storage: 512GB SATA SSD

Graphics: IntegratedGraphics

Display: At least 21.0-inch LCD HD Monitor (same brand as

the cpu)

Peripherals: USB Keyboard and Mouse; 650va UPS

I/O Specifications:

USB Configuration: 2x front and 3x rear USB 3.0/3.2, USB –

C, lan,

Integrated LAN: Ethernet Controller i225-V

Integrated Wireless: Wi-Fi 6Integrated Bluetooth: Yes

Latest Microsoft Operating System (64-bit)

Latest Microsoft Office Standard

#### **Units Laptop (for Project Management and Implementation)**

Processor: At least 8 core, 16 thread or higher

Display: At least 14.0" FHD (1920×1080); Anti-glare

Memory: 16GB DDR4, Storage: 1TB SSD

Graphics: Latest Integrated Graphics Operating System: Latest Windows 64 bit

Keyboard: Backlit, English

Camera: 720p with Privacy Shutter

Battery: Integrated 38Wh Power Adapter: 65W I|O Ports: At least 1x USB 2.0 1x USB 3.2 Gen 1

	1x USB-C 3.0/3.2 1x Headphone / microphone combo jack Bundled Software: Latest Microsoft Office Standard (perpetual license) or higher	
10	Units Pen Tab	
	Tablet Size: At least 200 x 160 x 8.8 mm / 7.87 x 6.3 x 0.35 in	
	Active Area: At least 152.0 x 95.0 mm (6.0 x 3.7 in)	
	Express Keys: At least 4 customizable application-specific settings	
	Pressure Levels: At least 4096	
	Resolution: At least 2540 Ipi	
10	Units Webcam	
	Widescreen Full HD video (1080p at 30fps) 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 MicrophoneSwivels a full 360 degrees	
	Configuration and Implementation of Microsoft Active Directory Service for SOMS end-users	
	To secure SOMS Network and Application System, Microsoft Active Directory (domain controller) must be implemented to 100 devices identified as SOMS end-users running on Microsoft Professional Operating system (desktops and laptops, including deliverables of this project).	
V	VARRANTY AND SUPPORT	
D	Delivered Devices:  (3) three years' warranty and support for parts, periodic maintenance checks andservices	
	4 hours response time from time of reporting for Chat, SMS, Call and email Support8 hours response time from time of reporting for on premise support	
N	Ianaged Cloud Service:	
	<ul> <li>Three (3) years Managed Cloud Service but not limited to:</li> <li>Monitors the network infrastructure to identify and address issues potentially affecting the service.</li> </ul>	
	<ul> <li>Implement and manages planned and un-planned changes in configuration andrelated network components.</li> <li>Monitors and document service usage for capacity planning and projections</li> </ul>	
L	i J	

Maintain service levels needed for efficient operations.	
Ensure only authorized activity and authenticated devices and	
users can accessthe network.	
• 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	
TRAININGS	
Comprehensive Trainings for:	
Administration and End User trainings for Software	
Applications	
Administration and Security for Network Administration	
Endpoint Security Solution for Manage Servers	
1. The solution provides self-defending servers with multiple	
integrated modules belowproviding a line of defense at the	
server using a SINGLE AGENT for the ff: a. Firewall	
b. Intrusion Prevention (Virtual Patching, Web	
Application Protection, IDS/IPS);	
c. Web reputation	
d. Anti Malware	
e. Log Inspection	
f. Integrity Monitoring	
g. Application Control	
2. The proposed solution must be compliant for FIPS 140-2	
standard.	
3. The proposed solution should be able to support legacy	
operating system such as Windows Server 2003	
4. The solution should meet 7 of 7 recommendations in the	
2020 Gartner Market Guidefor Cloud Workload	
Protection Platforms	
<b>5.</b> The solution shall have the following firewall functions:	
5.1. Enterprise-	
grade,	
grand,	
bi-	
directional	
directional	
stateful	
Stateful	
firewall	
inewan	
providing	
providing	
centralizedmanagement of firewall policy, including	
predefined templates	
5.2. Virtual Machine isolation	
5.3. Fine-grained filtering (IP and MAC addresses, ports)	
5.4. Coverage of all IP-based protocols (Transmission	
Control Protocol (TCP), user Diagram Protocol	
(UDP), Internet Control Message, Protocol (ICMP),	

	Geteway-to-gateway Protocol (GGP), Internet Gtoup	
	Management Protocol (IGMP) and all frame types	
	(Internet Protocol (IP), Address Resolution Protocol	
	(ARP), etc.	
	Design policies per network interfaces	
	Detection of reconnaissance scans	
+	Prevention of denial of service (DoS) attack	
<b>6.</b> T	The solution shall have the following intrusion prevention feature:	
6.1	Able to provide Host-Based Intrusion Detection	
0.1.	System (HIDS) / Host-based Intrusion prevention	
	System (HIPS) / Host based inclusion prevention  System (HIPS) feature	
6.2.	Able to operate in detection or prevention mode to	
	protect operating systems and enterprise applications	
	vulnerabilities	
6.3.	Compliance (Payment Card Industry Data Security	
	Standard PCI DSS 6.6) toprotect web applications and	
	the data they process	
6.4.	Must be able to provide Application Control on the	
	network layer	
6.5.	Must feature a high performance deep packet	
	inspection engine that examines all incoming and outgoing traffic for protocol deviations, content that	
	signals an attack, or policy violations	
6.6	Includes out of the box vulnerability protection for	
0.0.	over 100 applications including database, Web email	
	and FTP services. Must include smart rules to provide	
	zero-day protection from unknown exploits that attack	
	an unknown	
	7. The solution shall have the following anti-malware	
	functions:	
7.1.	The proposed solution must be able to provide Web	
	Reputation filtering to protect against malicious	
7.2	websites.	
1.2.	Must have Predictive Machine Learning to protect against unknown malware	
7.3	Must have Behavioral Monitoring to protect against	
7.5.	malicious script andapplications.	
7.4.	Must have Ransomware protection that can backup	
	and restore encrypteddocuments.	
	3. The solution shall have the following log inspection	
	feature:	
8.1.	1 1	
	capability to inspect logs & events generated by	
0.2	operating systems & applications.	
8.2.	Able to automatically recommend and assign relevant log inspection rules to theserver based on the operating	
	system & applications installed.	
83	Able to automatically recommend and unassign log	
	inspection rules that are notrequired	
8.4.	Proposed solution comes with predefined template	
	for operating system and enterprise application to	
	avoid manual creation of the rules	
8.5.	Proposed solution is able to create customized rule to	

	support custom application	
<b>9.</b> The	solution shall provide the following integrity monitoring	
	features:	
9.1.	Able to detect changes to files, running services, ports,	
	and critical system areas, like the Windows registry, that could indicate suspicious activity.	
9.2	Able to monitor critical operating system and	
7.2.	application files, such as directories, register keys, and	
	values, to detect and report malicious and unexpected	
	changesin real time	
<b>10.</b> The	e solution shall provide the following application control	
10.1	features:	
10.1.	Able to monitor changes made to the server compared to baseline software	
10.2	Able to allow or block the software and optionally lock	
10.2.	down the server fromunauthorize change	
10.3.	Allows maintenance mode to allow installation of	
	software and changes OS	
10.4.	Unauthorize scripts and application should be alerted in	
	console	
Mobile APP	Multi-factor authentication for user access	
	ES & BENEFITS	
a. O	nline (push) and offline (QR code and OTP)	
	uthentication	
	ow TCO Cloud service	
	Iobile device DNA check for a strong identity match	
	ightweight, full-featured mobile app in 13 languages PN, Cloud and PC login protection all included	
	Veb Single Sign-On (SSO) portal	
	asily protect VPN, Cloud apps and web services using	
_	e integration guides	
	onfigure risk policies and create custom rules that align	
W	ith your security needs	
AUTHENTIC	CATION FUNCTIONS	
a.	Push-Based Authentication (online)	
b.	QR Code-Based Authentication (offline)	
c.	Time-Based One-Time Password (offline)	
SECURITY 1	FEATURES	
SECURITY I	Mobile Device DNA	
b.	Online Activation with Dynamic Key Generation	
c.	PIN, Fingerprint, and Face recognition (iPhone X)	
	access to authenticator	
d.	Self-service, secure authenticator migration to another	
	device	
e.	Jailbreak and Root Detection	
CON	IVENIENCE FEATURES	
a.	Multi-Token support	
b.	3rd party hardware token support	
C.	3rd Party Social Media token support	
d.	Custom Token Name and Picture	

#### SUPPORTED PLATFORMS

- a. Android v4.4 or higher
- b. iOS v9.0 or higher

#### **STANDARDS**

- a. OATH Time-Based One-Time Password Algorithm (TOTP) RFC 6238
- b. OATH Challenge-Response Algorithms (OCRA) RFC 6287
- c. OATH Dynamic Symmetric Key Provisioning Protocol (DSKPP) RFC 6063
- d. RADIUS
- e. SAML 2.0 IdP

## Section VIII. 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 :  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/deliver/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 herein or in the Price Schedules,
If our Bid is accepted, we undertake:
<ul> <li>to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);</li> </ul>
<ul> <li>to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;</li> </ul>
c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us a 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 of agentCurrencyCommission or gratuity
(if none, state "None") ]
Until a formal Contract is prepared and executed, this Bid, together with your written acceptance

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 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]

#### For Goods Offered from Within the Philippines

Name	Name of Bidder Project ID No Pageof									
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)	
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]

			Fe	or Goods Offere	ed from Al	broad					
Name o	of Bidder _			Project ID No Page of							
1	2	3	4	5	6	7	8	9			
Item	Description	Country 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)			
Legal C	Capacity:							-			
Duly at	uthorized to	sign the I	Bid for and	d behalf of:							

#### Other Bidding Forms

# (ANNEX "A")Statement of all On-going ContractsAnnex "A" Form 1Statement of Single Largest Completed ContractAnnex "A" Form 3Joint Resolution Form for JVA

#### {ATTACH COMPANY LETTERHEAD/LOGO}

Statement of all its ON-C	GOING government and p	private contracts, incl	uding contrac	ts award	led but not yet started	d, if any, whether similar	or not simila	ar in nature	and complexity to the cor	ntract to be bi
	a. Owner's Name		Contractor	s Role		a. Date Awarded	Accomp	olishment		
Name of Contract	b. Address c. Telephone No.	Nature of Work	Description	%	Contract Amount at Award	b. Date of Contract c. Contract Duration d. Date Started e. Date Completed	Planned	Actual	Values of Outstanding Works	
Government										
Private										
	1	1		<u>I</u>	l		Total outstandi	value of ng works		
Submitted by:	(Print Name & Sign		_							
Designation:			_							
Doto										

Statement of single large	est <u>COMPLETED</u> contrac	et similar to the contract t	o be bid				
	a. Owner's Name		Contractor's R	ole		a. Date Awarded	
Name of Contract	b. Address c. Telephone No.	Nature of Work	Description	%	Contract Amount at Award	<ul><li>b. Date of Contract</li><li>c. Contract Duration</li><li>d. Date Started</li><li>e. Date Completed</li></ul>	
Submitted by:	(Print Name & Sig						
Designation:							
Date:							

# CAAP-BAC-SF Annex "A" Form 3

		JOINT RESOLU	TION		
	Whereas,			(Bidder / Name	e of
		, with	office	address represe	at ented
herein	by its			Particular JV Part	and
		existing un , wi	der the th main , re	Laws of office address epresented by herei	the at in by
its	/enture ( JV ) Agreement t	o undertalse the fol	lowing project /	, have entered in	nto a
JOHIL V	remure (JV) Agreement t	o undertake the for	nowing project /	contract:	
`	Name of Project / Contrast, in order to facilitate the	,	on and conduct	of the contract that	was
entered	d into by the joint venture as fol	in the name of the j			
a.	To appoint Official Representation of any entities pursuant to	resentative, to repre- contract in the name of the Joint Venture	esent, to manage to of the Joint Ve required by the	nture, or to sign for (Procurement Ager	nd is r any
b.	That, the parties agreed as the Lead Officer as the Venture, and are granted all acts necessary and/or Bidding and Undertaking fully and effectively and to power of substitution authorized and empowere / contract in the name of the substitution of the substitution authorized and empowere / contract in the name of the substitution of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the name of the substitution authorized and empowere / contract in the substitution authorized authorized / contract / contrac	I Partner of the Joe Official Represent full power and author to represent the g of the said contrattle Joint Venture mand revocation	int Venture and ntative & Managority to do, exect Joint Venture in act in the name hay do and if per	( Name of Authorizing Partner of the ute and perform any the Eligibility Chof the Joint Ventur sonally present with	rized Joint y and neck, re, as n full
c.	That the parties agree to Eligibility Check, Biddin	•	•		ı the
d.	That the terms of the JV terminus with the final cotthe agency of the government;	ompletion and turno	over of the Name	e of Contract / Proje	ect to
	TNESS THEREFORE, W				
day of		in	·		

Name of Bidder (Lead Partner )	Name of Bidder ( Member Partner )
By:	By:
Signature & Name of Managing Officer	Signature & Name of Authorized Authorized Representative
Designation / Position	Designation / Position
Name of Bidder (Member Partner )	Name of Bidder ( Member Partner )
By:	By:
Signature & Name of Managing Officer	Signature & Name of Authorized Authorized Representative
Designation / Position	Designation / Position
SIGNED IN THE PRESENCE OF:	

## ACKNOWLEDGEMENT

REPUBLIC OF CITY OF				
BEFORE ME, a thisday	Notary Pu	ıblic, for a	and in the City of 20 personally appe	, Philippines, eared the following persons:
NAME		Com	munity Cert. No.	Date / Place of Issue
Representing	to	be	the	of
deed as well as considerations the This Instrument Acknowledgeme each and every p	of the onerein set to consist ent is writing there	corporation forth and sof TH ten and son.	ons which they represe that they are duly author HREE (3) pages incligned by the parties and	is their free and voluntary act and ent, for the uses, purposes, and orized to sign the same.  Inding this page wherein this differ instrumental witnesses on the place and date hereinafter first
NOTARY PUBI  Doc. No Book No Page No Series of				

# 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	

#### **Bid-Securing Declaration**

(REPUBLIC	OF	THE	<b>PHILIPPINES</b> )
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;
  - b. 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.

<b>IN WITNESS WHEREOF</b> , I/We have hereunto set my/our hand/s thisday of [month] [year] at [place of execution].
[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE] [Insert signatory's legal capacity]
Affiant <b>SUBSCRIBED AND SWORN</b> 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 thisday of [month] [year].
NAME OF NOTARY PUBLIC
Serial No. of Commission

## CAAP-BAC-SF Annex "B" Form 2

## $\{ATTACH\ COMPANY\ LETTERHEAD/LOGO\}$

# **Schedule of Requirements**

Item No.	Description	Quantity	Unit	Delivered, Weeks/ Months

SUBMITTE	DBY:
----------	------

Signature: _	
Filined Name.	
Position: _	
Date:	

## CAAP-BAC-SF Annex "B" Form 3

## $\{ATTACH\ COMPANY\ LETTERHEAD/LOGO\}$

## **Technical Specifications**

Item	Specification	Statement of Compliance

### SUBMITTED BY:

Signature: _	
Printed Name: _	
Position: _	
Name of Company:_	
ъ.	

#### **Omnibus Sworn Statement**

REPUBLIC	OF	THE	PHI	LIPPINE	$\mathbf{E}\mathbf{S}$
CITY/MUNI	CIPA	ALITY	OF	)	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.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have her, Philippines.	reunto set my hand thisday of, 20at
	Bidder's Representative/Authorized Signatory
execution], Philippines. Affiant/s is/are pers through competent evidence of identity as de No. 02-8-13-SC). Affiant/s exhibited to me card used], with his/her photograph and sign	pefore me thisday of [month] [year] at [place of sonally known to me and was/were identified byme befined in the 2004 Rules on Notarial Practice (A.M. e his/her [insert type of government identification gnature appearing thereon, with noificate Noissued onat
Witness my hand and seal thisd	lay of [month] [year].
	NAME OF NOTARY PUBLIC  Serial No. of Commission  Notary Public foruntil  Roll of Attorneys No  PTR No[date issued], [place issued]  IBP No[date issued], [place issued]
Doc. No. Page No. Book No. Series of	
* This form will not apply for WB funded p	rojects.

(ANNEX "C")

# **AUTHORITY OF SIGNATORY** (SECRETARY'S CERTIFICATE)

I, a duly elected and qualified Corporate Secretary of (Name of the Bidder), 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 amended in 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.

SUBSCRIRED AND SWORN to before	(Corporate Secretary) me this day of, 20affiant exhibited to me
his/her Community Tax Certificate Noat, Philippines.	
Notary Public	
	Until 31 December 20
	PRT No.:

	Issued at:	
	Issued on:	
	TIN No.:	
Doc. No		
Page No.:		
Book No.:		
Series of		

# Section IX. Checklist of Technical and Financial Documents

#### Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. Any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

## **Checklist of Technical and Financial Documents**

## I. TECHNICAL COMPONENT ENVELOPE

		A" Documents
<u>Leg</u>		<u>ocuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); <b>Or</b>
	(b)	Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document, and
	(c)	Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  and
	(d)	
<u>Tec</u>	chnic	cal Documents
		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 (Annex "A" Form 1); <b>and</b>
	(f)	Statement of the bidder's Single Largest Completed Contract (SLCC) or 2 similar projects 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 (Annex "A" Form 2); and
	(g)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
		or Original copy of Notarized Bid Securing Declaration (Annex "B" Form 1); and
	(h)	Schedule of Requirements (Annex "B" Form 2)
	(i)	Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable (Annex "B" Form 3); and
	(j)	Original duly signed Omnibus Sworn Statement (OSS) (Annex "B" Form 4); and 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.
		This shall include all of the following documents as attachment to the Omnibus Sworn Statement:
		1. Certification, under oath, attesting that they have no pending case(s) against the Government, in addition to the eligibility requirements as

		prescribe under the 2016 Revise Implementing Rules and Regulation (R-IRR) of RA No. 9184;
		<ul><li>2. Legal Clearance to be issued by the CAAP Enforcement and Legal Service with respect to the non-pending cases of the prospective biddersagainst</li></ul>
		this Authority; and
		3. Bid Bulletins (if applicable)
Fin	ancie	al Documents
	(k)	The Supplier's audited financial statements, showing, among others, the Supplier's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding
		calendar year which should not be earlier than two (2) years from the date of
	(1)	bid submission; <b>and</b> The prospective bidder's computation of Net Financial Contracting Capacity (NFCC);
		or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.
		Class "B" Documents
	(m)	
		<u>or</u>
		duly 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 EIN	. A <b>.</b> T. C	NAAL COMPONENTE ENVEL OPE
		CIAL COMPONENT ENVELOPE  Original of duly signed and accomplished Financial Rid Forms and
	(n) (o)	Original of duly signed and accomplished Financial Bid Form; and Original of duly signed and accomplished Price Schedule(s).
_	` '	
<u>Oth</u>		ocumentary requirements under RA No. 9184 (as applicable)
	(p)	[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
	(q)	government procurement activities for the same item or product.
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