

BIDDING DOCUMENTS

**SUPPLY, DELIVERY, INSTALLATION,
TESTING AND COMMISSIONING OF
EQUIPMENT AND CONNECTIVITY –
ARTIFICIAL INTELLIGENCE
SURVEILLANCE SYSTEM WITH VIDEO
ANALYTICS FOR THE OTS COMMAND AND
CONTROL COMMUNICATIONS CENTER
AND VARIOUS AIRPORTS NATIONWIDE**

PUBLIC BIDDING NO: 21-132-9

**Sixth Edition
July 2020**

Table of Contents

Glossary of Acronyms, Terms, and Abbreviations	4
Section I. Invitation to Bid	7
Section II. Instructions to Bidders	11
1. Scope of Bid	12
2. Funding Information	12
3. Bidding Requirements	12
4. Corrupt, Fraudulent, Collusive, and Coercive Practices	12
5. Eligible Bidders	12
6. Origin of Goods	13
7. Subcontracts	13
8. Pre-Bid Conference	14
9. Clarification and Amendment of Bidding Documents	14
10. Documents comprising the Bid: Eligibility and Technical Components	14
11. Documents comprising the Bid: Financial Component	14
12. Bid Prices	15
13. Bid and Payment Currencies	15
14. Bid Security	15
15. Sealing and Marking of Bids	16
16. Deadline for Submission of Bids	16
17. Opening and Preliminary Examination of Bids	16
18. Domestic Preference	16
19. Detailed Evaluation and Comparison of Bids	16
20. Post-Qualification	17
21. Signing of the Contract	17
Section III. Bid Data Sheet	18
Section IV. General Conditions of Contract	25
1. Scope of Contract	26
2. Advance Payment and Terms of Payment	26
3. Performance Security	26

4.	Inspection and Tests	26
5.	Warranty	27
6.	Liability of the Supplier	27
	Section V. Special Conditions of Contract	28
	Section VI. Schedule of Requirements	34
	Section VII. Technical Specifications	35
	Section VIII. Checklist of Technical and Financial Documents	67
	Bid Form	70
	STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID	86
	Statement of: (i) Ongoing Contracts and; (ii) Awarded But Not Yet Started Contracts	87
	JOINT VENTURE AGREEMENT	89
	MISCELLANEOUS PROVISIONS	92

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 maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school

buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid

**INVITATION TO BID
FOR THE
SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF
EQUIPMENT AND CONNECTIVITY –ARTIFICIAL INTELLIGENCE SURVEILLANCE
SYSTEM WITH VIDEO ANALYTICS FOR THE OTS COMMAND AND CONTROL
COMMUNICATIONS CENTER AND VARIOUS AIRPORTS NATIONWIDE
PUBLIC BIDDING NO. 21-132-9**

FUNDING SOURCE: GAA 2018

1. The *Office for Transportation Security*, through the *Government Appropriations Act CY 2018* intends to apply the sum of *Php 97,191,011.00* being the Approved Budget for the Contract (ABC) to payments under the contract for *the Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance with Video Analytics for the OTS Command and Control Communication Center and Various Airports Nationwide for the Office for Transportation Security under Public Bidding No. 21-132-9*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

Item No.	Quantity	Item/Description	Approved Budget for the Contract	Price of Bid Documents	Delivery Period
1	1 lot	Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance System with Video Analytics for the OTS Command and Control Communications Center	97,191,011.00	10,000.00	Please refer to Section VI. Schedule of Requirements

Bidders should have completed, within **Ten (10) years** prior to the date of submission and receipt of bids, a contract similar to the Project.

2. The summary of the bidding activities is as follows:

Advertisement/Posting of Invitation to Bid	December 7, 2021
Issuance and Availability of Bid Documents	December 7, 2021
Pre-Bid Conference	December 14, 2021: 10:00 A.M.
Last day of Submission of Written Clarification	December 18, 2021
Last day of Issuance of Bid Bulletin	December 21, 2021

Deadline for Submission	December 28, 2021; 10:00 A.M.
Opening of Bids	Immediately after the Deadline of Submission of Bids

3. The *Office for Transportation Security, through its procuring agent, Procurement Service* now invites bids for the above Procurement Project. Completion of the Works is required *within 120 calendar days upon issuance of the Notice to Proceed*. Bidders should have completed 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 Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.
5. 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 5183 and subject to Commonwealth Act 138.
6. Interested bidders may obtain further information from the Procurement Service and inspect the Bidding Documents at the address given below during office hours.

A complete set of Bidding Documents may be acquired by interested Bidders from the PS Cashier’s Office and upon payment of a nonrefundable fee in amounts pursuant to the Schedule.

It may also be downloaded free of charge from the website of the **Procurement Service – DBM (PS-DBM)**, provided that Bidders shall pay the nonrefundable fee for the Bidding Documents not later than the submission of their bids.

7. The PROCUREMENT SERVICE will hold a Pre-Bid Conference on **14 December 2021; 10:00A.M.** which shall be open to all interested parties. Pursuant to the General Community Quarantine and strict implementation of physical distancing due to the pandemic, the scheduled meeting may be accessed thru this link: <https://meet.google.com/fpq-ycre-wvy> for online access via Google Meet.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

Bid opening shall be conducted on **28 December 2021; 10:00 A.M.** at the Bidding Room, Conference Room, Procurement Service, Cristobal St., Paco, Manila. Pursuant to the **General Community Quarantine** and strict implementation of physical distancing due to the pandemic, the scheduled meeting may be accessed thru this link: <https://meet.google.com/snf-cpzy-aqv> for online access via Google Meet. Bids will be opened in the presence of the Bidders’ representatives who choose to attend the opening. **Late bids shall not be accepted. Unsealed or unmarked bid envelopes shall also be rejected.**

9. Bidders shall drop their duly accomplished eligibility requirements, technical and financial proposals in two separate sealed envelopes in the designated bid box located at the 2nd Floor of the Procurement Service.
10. The PROCUREMENT SERVICE reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

Bids and Awards Committee IX
Procurement Service
RR Road, Cristobal St., Paco, Manila
8290-6300 loc.8032
pd5@ps-philgeps.gov.ph


SIGNATURE REDACTED

PAUL JASPER DE GUZMAN
Chairperson, Bids and Awards Committee IX

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Agent, *Procurement Service - DBM* wishes to receive Bids for the ***Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity-Artificial Intelligence Surveillance System with Video Analytics for the OTS Command and Control Communication Center and Various Airports Nationwide for the Office for Transportation Security*** under a RA 9184, with Public Bidding No. **21-132-9**.

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 GAA through the source of funding as indicated below for **2018** in the amount of **97,191,011.00**

2.2. The source of funding is:

GoP Department of Transportation 2018

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 exceeding those allowed under the rules may participate pursuant to:
- i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
 - ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
 - iii. When the Goods sought to be procured are not available from local suppliers; or
 - iv. When there is a need to prevent situations that defeat competition or restrain trade.
- 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:
- 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.
- 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. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that:

Subcontracting is not allowed.

- 7.2. **Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or**

workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within *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 (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, ex-warehouse, 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.
 - i. 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:

- a. **Philippine Pesos.**

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration 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 *120 calendar 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 follows: One Project having several items that shall be awarded as one contract.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause															
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <p>a. <u><i>Contracts similar to those classified as Any contract on Centralized/Enterprise Artificial Intelligence Video Surveillance with Video Analytics via Network.</i></u></p> <p>b. Completed within Ten (10) years prior to the deadline for the submission and receipt of bids.</p>														
7.1	<i>Subcontracting is not allowed.</i>														
12	The price of the Goods shall be quoted Office for Transportation Security or the applicable International Commercial Terms (INCOTERMS) for this Project.														
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 10%;">Item No.</th> <th style="width: 30%;">Item/Description</th> <th style="width: 20%;">Amount Cash, Cashier's / Manager's Check, Bank Draft/ Guarantee/ Irrevocable Letter of Credit (2%)</th> <th style="width: 20%;">Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5%)</th> <th style="width: 20%;">Bid Securing Declaration (Pursuant to GPPB Resolution No. 03-2012)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance System with Video Analytics</td> <td style="text-align: right;">₱ 1,943,820.22</td> <td style="text-align: right;">₱ 4,859,550.55</td> <td style="text-align: center;">Please see Section VIII attached as Annex "H"</td> </tr> </tbody> </table>					Item No.	Item/Description	Amount Cash, Cashier's / Manager's Check, Bank Draft/ Guarantee/ Irrevocable Letter of Credit (2%)	Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5%)	Bid Securing Declaration (Pursuant to GPPB Resolution No. 03-2012)	1	Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance System with Video Analytics	₱ 1,943,820.22	₱ 4,859,550.55	Please see Section VIII attached as Annex "H"
Item No.	Item/Description	Amount Cash, Cashier's / Manager's Check, Bank Draft/ Guarantee/ Irrevocable Letter of Credit (2%)	Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5%)	Bid Securing Declaration (Pursuant to GPPB Resolution No. 03-2012)											
1	Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance System with Video Analytics	₱ 1,943,820.22	₱ 4,859,550.55	Please see Section VIII attached as Annex "H"											
15	<p>Each Bidder shall submit one (1) original and Two (2) copies of the first and second components of its bid.</p> <p>The duplicate- <i>i.e. copy 1</i>, must include the same documents as that of the original set of documents. In case, however, a bidder opts to submit cash as bid security, copy 1</p>														

need not contain photocopies of the same.

19.3

The lots and references are:

Item No.	Quantity	Item/Description	Approved Budget for the Contract
1	1 Lot	Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance System with Video Analytics	₱97,191,011.00

20.2

Documents, licenses and permits required.

For purposes of Post-qualification the following document(s) shall be required:

1. Income Tax Returns for year **2020** (BIR Form 1701 or 1702).
2. Latest Value Added Tax Returns (Forms 2550M and 2550Q) or Percentage Tax Returns (Form 2551M). For this requirement, covering the months of **May to October 2021**.

The income tax and business tax returns stated above should have been filed through the Electronic Filing and Payment System (EFPS).

3. Proof of completion of the single largest contract as identified in the Statement of Single Largest Contract, which shall be copy of any verifiable document(s) such as but not limited to the following: (a) Contract/s or Purchase Order/s; (b) corresponding Sales Invoice/s; (c) Official Receipt/Cash Receipt/Collection Receipt; and (d) Certificate of Satisfactory Completion.
4. Submission of pieces of evidence as proof of compliance with the bidder's actual offer, if applicable.

In the column "Bidder's Compliance", the bidder must state "comply" against each of the individual parameters of each specification corresponding to

performance parameter of equipment offered. Statement of "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 or distributor's un-amended sales literature, unconditional statements or specification and compliance issued by the manufacturer or distributor, samples, independent test data etc., as appropriate.

5. Updated PhilGEPS Certificate of Registration (Platinum Membership).

6. Bidder must submit a notarized certification of the following:

- a) Certification from OTS that on-site inspection was conducted by the bidder on at least five (5) sites as stated in the Terms of Reference;
- b) Certificate of undertaking to provide maintenance support nationwide during the warranty period as specified in the "Warranty and Guarantee Requirements" of the OTS TOR;
- c) Certificate of undertaking that the Bidder and the system adheres with the provisions of R.A. No. 10173 (also known as Data Privacy Act of 2012) and NPC Circular 16-02 (Data Sharing Agreements Involving Government Agencies) and must sign a Confidentiality and Non-Disclosure Agreement with OTS;
- d) Certification that the Bidder must be at least 10 years in the security surveillance business as stated in the SEC registration;
- e) The assigned Project Manager must be a Professional Electronics & Communications Engineer or at least Licensed Electronics & Communications Engineer with an experience of at least 5-years in video surveillance with video analytics for Command and Control Communications Center. The Project Manager must also submit a project management certification.
- f) Together with the Bid, the Statement of Availability of Key Personnel to be accompanied by the list of names of minimum key personnel being

proposed for the project together with their respective curriculum vitae showing among others their Educational Attainment, professional Qualification, Experience and copies of their respective valid and subsisting PRC licenses. The prospective bidders must have the minimum technical staff to be assigned to the Project composed of the following:

1. One (1) System Installation & Integration Engineer – must be a Philippine Licensed Electronics & Communications Engineer with at least 5 years track record and experience in the supply, installation, testing & commissioning of equipment and system software of CCTV Security Surveillance System works.
 2. One (1) Foreman -with experience in the supply, installation, testing & commissioning of equipment, and system software of CCTV Security Surveillance System works.
 3. One (1) Safety Officer certified by Occupational Health and Safety Standard (OHSAS) or Construction Occupational Safety and Health (COSH);
- h). An undertaking that all systems software licenses and updates must be perpetual except for the Unified Threat Management(UTM);
- i). An undertaking to supply Brand New equipment as certified by the manufacturer and should be an Authorized Solution Partner of the manufacturer of CCTV equipment;
- j). Supplier must be the certified partner/distributor of the Video Management System and Storage Server / Network Video Recorder (NVR) being offered for OTS;
- k). Certification from the manufacturer that the Offered Video Management Solution Including Cameras, Storage and VMS Software must be reputable and must be known internationally for the last fifteen (15) years.
- l). Certification of spare parts availability from the original equipment manufacturer of the surveillance system for the next five (5) years from the date of completion;
- m). Certificate of Dealership or Authority to Sell Directly issued by the Manufacturer to the bidder;

	<p>n). An Undertaking to provide, deliver and comply all the terms and conditions set by the end-user in its TOR;</p> <p>o). At least two (2) satisfactory performance evaluation from current/previous clients for satisfactory delivery of goods/services similar to the project, accompanied with verifiable proof of evidences to support the certification.</p> <p>7. Must be a certified installer of Fiber Optic Cables and must show partnership Certification from local internet service providers.</p> <p>8. Bidder must have a valid VAS (Value Added Service) License issued by the National Telecommunications Commission (NTC) to offer Internet Access Service and Virtual Private Network (LAN/WAN).</p> <p>9. Bidder must have a PCAB accreditation specializing in Communications Facilities; Medium A License Category B.</p> <p>10. Manufacturer of all CCTV equipment, Network Switches, and enterprise Servers must be EN or UL & ISO Certified.</p> <p>11. The bidder must provide the following Work Plan in separate narratives including but not limited to:</p> <ul style="list-style-type: none"> a) Work Methodology Plan; b) Safety and Security Plan; c) Storage Plan; d) Communications Plan; and e) Must provide as-built plan. <p>12. Bidder must submit latest/current ONVIF list of equipment/ system to ensure the interoperability, compatibility, and security of the proposed system. The brand manufacturer must be an active member of Open Network Video Industry Forum (ONVIF).</p> <p><i>N.B. Documents submitted during post-qualification as part of post-qualification documents must be certified by the authorized representative to be true copy/ies from the original.</i></p>
21.1	No further instruction

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Section IV. General Conditions of Contract

1. **Scope of Contract**

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

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

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

2. **Advance Payment and Terms of Payment**

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. **Performance Security**

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than 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 or Framework Agreements specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV (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

- 6.1. 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.
- 6.2. 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

Special Conditions of Contract

GCC Clause									
1	LUZON				MINDANAO				
	Sites	Cam	BW (mbps)	Sites	Cam	BW (mbps)	Sites	Cam	BW (mbps)
	OTS Main	2	1000	NAIA T1	44	60	Davao	24	30
				NAIA T2	52	80			
				NAIA T3	64	80			
				NAIA T4	16	30			

For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:

[For Goods supplied from abroad, state:] “The delivery terms applicable to the Contract are DDP delivered *[indicate place of destination]*. In accordance with INCOTERMS.”

[For Goods supplied from within the Philippines, state:] “The delivery terms applicable to this Contract are delivered *[indicate place of destination]*. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”

Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).

For purposes of this Clause the Procuring Entity’s Representative at the Project Site Is: JOE MARK ANCHETA
Office for Transportation Security
Aurora Boulevard, Pasay City
Contact No. 091556485274

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.

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 costs thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of **three (3) months**.

Spare parts or components shall be supplied as promptly as possible, but in any case, within **three (3) months** of placing the order.

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

	<p>Name of the Supplier</p> <p>Contract Description</p> <p>Final Destination</p> <p>Gross weight</p> <p>Any special lifting instructions</p>
	<p>Any special handling instructions</p> <p>Any relevant HAZCHEM classifications</p>
	<p>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.</p> <p>Transportation –</p> <p>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.</p> <p>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.</p>

	<p>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.</p> <p>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.</p> <p>Intellectual Property Rights –</p> <p>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.</p>
2.2	Please see to the attached Terms of Reference
4	<i>Not Applicable</i>

Section VI. Schedule of Requirements

Lot No.	Qty	Item/Description	Delivery period
1	1 lot	Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity-Artificial Intelligence Surveillance with Video Analytics	Within One Hundred Twenty (120) Calendar Days from the effective date indicated in the Notice to Proceed

Note: Installation, Training and documentations will be provided in all delivery Airports, and in OTS Command Center as specified in the OTS TOR.

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company

Signature Over Printed
Name of Authorized
Representative

Date

Section VII. Technical Specifications

LOT NO. 1	:	Integrated Equipment and Connectivity- Artificial Intelligence Surveillance System with Video Analytics
QUANTITY	:	1 Lot
APPROVED BUDGET FOR THE CONTRACT	:	₱ 97,191,011.00

ITEM DESCRIPTION	BIDDER'S STATEMENT OF COMPLIANCE
Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance System with Video Analytics	
<i>Conforms to the Attached Office for the Transportation Security (OTS) - Terms of Reference (TOR) - Supply, Delivery, Installation, Testing and Commissioning of Equipment and Connectivity- Artificial Intelligence Surveillance with Video Analytics</i>	

FOR OTS COMMAND CENTER:

ITEM DESCRIPTION	BIDDER'S STATEMENT OF COMPLIANCE
Enterprise Network Video Management Server	Brand: _____ Model: _____
Archiving Server 450TB (for succeeding 30 days recording)	Brand: _____ Model: _____
Data Cabinet, 6 ft 42U	Brand: _____

	Model: _____
PDU with TVSS	Brand: _____ Model: _____
50KVA Online UPS Tower Cabinet	Brand: _____ Model: _____
Large Format Display Monitor, 55in LED	Brand: _____ Model: _____
Video Processor Unit to handle 24 up to 40 Video Wall Panels Display	Brand: _____ Model: _____
Management software for collaborative Video Wall display	Brand: _____ Model: _____
24-Port POE Switch, for Video Wall	Brand: _____ Model: _____

24-Port POE Switch, for workstation & VOIP	Brand: _____ Model: _____
Core switch L3 1.92Tbps	Brand: _____ Model: _____
NMS Firewall, UTM, Load Balancer	Brand: _____ Model: _____
High-end Workstation with 4-display output, 3-display monitor	Brand: _____ Model: _____
VOIP Server Enterprise	Brand: _____ Model: _____
IP-PBX Control Panel	Brand: _____ Model: _____

IP Phone Handset	Brand: _____ Model: _____
Conferencing Phone with Camera for Situation Room	Brand: _____ Model: _____
Facial Recognition License	Brand: _____ Model: _____

FOR AIRPORT STATIONS:

ITEM DESCRIPTION	BIDDER'S STATEMENT OF COMPLIANCE
Enterprise Network Video Management Server/NVR w/ license	Brand: _____ Model: _____
CCTV Camera, dome	Brand: _____ Model: _____

CCTV Camera, fisheye	Brand: _____ Model: _____
Facial Recognition License	Brand: _____ Model: _____
Workstation for live viewing	Brand: _____ Model: _____
LED Monitor	Brand: _____ Model: _____
IP Phone	Brand: _____ Model: _____
Data Rack, 2.5ft with TVSS and 30A breaker	Brand: _____ Model: _____

UTM, Load balancer, Firewall	Brand: _____ Model: _____
24-Port POE Switch	Brand: _____ Model: _____
UPS, 1.5KVA	Brand: _____ Model: _____

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

Name of Company

Signature Over Printed
Name of Authorized
Representative

Date



TERMS OF REFERENCE

(as of Nov 5, 2021)

FOR THE SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF EQUIPMENT AND CONNECTIVITY – ARTIFICIAL INTELLIGENCE SURVEILLANCE SYSTEM WITH VIDEO ANALYTICS FOR THE OTS COMMAND AND CONTROL COMMUNICATIONS CENTER AND VARIOUS AIRPORTS NATIONWIDE

I. BACKGROUND/RATIONALE

The primary objective of establishing the Office for Transportation Security's Command and Control Communications Center (OTS C4) is to provide a central point of campus intelligence and response via 24/7 seamless connectivity to airport stations nationwide. The project envisions the OTS C4 as a monitoring platform for tighter security measures in gateway airports in the country.

The project involves supplying both equipment and connectivity on all sites capable of live viewing, store footages, communicate and connect OTS C4 and the security screening checkpoints of the following airports:

Luzon Sites		Mindanao Site
Command Center OTS Main	NAIA T1, T2, T3 and T4	Davao Int'l Airport

II. DEFINITION OF TERMS AND ACRONYMS

Command and Control Communications Center (C4)	A secure room or building in a government facility with a live streaming video monitoring surveillance system with video analytics and facial recognition that operates via network as the agency's dispatch center, surveillance monitoring center, coordination office and alarm monitoring center all in one.
Network Video Management Software (NVMS)	A component of a security camera system that in general: <ul style="list-style-type: none"> • Collects video from cameras and other sources • Records / stores that video to a storage device • Provides an interface to both view the live video and access recorded video
Facial Recognition System (FRS)	A technology capable of identifying or verifying a person from a digital image or a video frame from a video source
Voice over IP (VOIP) Private Branch Exchange (PBX)	A system that connects telephone extensions to the public switched telephone network and provides internal communication. It is a system with IP connectivity and may provide additional audio, video, or instant messaging communication utilizing the TCP/IP protocol stack
Bandwidth	The capacity of a network communications link to transmit the maximum amount of data from one point to another in a given amount of time
Quality of Service (QOS)	Refers to any technology that manages data traffic to reduce packet loss, latency, and jitter on the network. It controls and manages network resources by setting priorities for specific types of data on the network.
Large Format Display (LFD)	Flat screens that are sleek and minimal in design, allowing businesses / agency to display messages and presentations to visitors.
Local Area Network (LAN)	A computer network that interconnects computers within a limited area such as a residence, school, laboratory, university campus or office building. By contrast, a wide area network (WAN) not only covers a larger geographic distance, but also generally involves leased telecommunication circuits.

Domestic Fiber Optic Backbone Network	Provides state-of-the-art communications for three distinct types of service: telephone, data, and test and evaluation/scientific and technical.
Internet Service provider (ISP)	An organization that provides services for accessing, using, or participating in the Internet. It may be organized in various forms, such as commercial, community-owned, non-profit, or otherwise privately owned.
Network Management System (NMS)	also known as a "network operations center", is one or more locations from which network monitoring and control, or network management, is exercised over a computer display, telecommunication or satellite network
User Datagram Protocol (UDP)	uses a simple connectionless communication model with a minimum of protocol mechanisms. UDP provides checksums for data integrity, and port numbers for addressing different functions at the source and destination of the datagram.
Media Access Control address (MAC address)	a unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment.
Application Programming Interface (API)	An interface or communication protocol between a client and a server intended to simplify the building of client-side software.
Open Network Video Interface Forum (ONVIF)	a global and open industry forum with the goal of facilitating the development and use of a global open standard for the interface of physical IP-based security products
Video Analytics	It is a technology that processes and analyzes a digital video using a special algorithm to detect events the system is programmed to look for and perform a security-related function.

III. PROJECT REQUIREMENT/SCOPE OF WORKS

A. General Requirement

The Contractor is to understand that any work not specifically mentioned within the general scope defined hereto but essential to the project must be done as if it was particularly defined and described under this terms. Materials needed to accomplish such activity of the project must be provided by the Contractor without additional cost to OTS.

The Contractor must cover cost of shipment, installation, programming, testing, commissioning, user and technical trainings, and acceptance.

The Contractor must have the following system requirements:

- 1) Systems and equipment must be capable of handling 24/7 Multi-site connectivity for 365 days per year;
- 2) Artificial Intelligence (AI)-driven technology;
- 3) CCTV with FRS and Network Video Management System;
- 4) ONVIF compliant Equipment and connectivity with TVSS for the aforesaid sites;
- 5) Back-up power system online UPS
- 6) Minimum of 90-days recording capability on all sites;
- 7) Perpetual licenses and software updates after the warranty period so that OTS is worry free from costly maintenance updates and license renewal;
- 8) Must be capable of network monitoring systems;
- 9) All sites must be equipped with VOIP communications.
- 10) Video wall processor and management system.

1. CONNECTIVITY AND BANDWIDTH

OTS C4 must have a reliable Multi-Site connectivity within one (1) year with minimum shaping speed provided below to allow real-time/live-streaming monitoring access to CCTV System to the airports listed below. The system must be scalable to accommodate future expansion. System must also have software that indicates and monitors network lags.

LUZON						MINDANAO		
Sites	Cam	BW (Mbps)	Sites	Cam	BW (Mbps)	Sites	Cam	BW (Mbps)
OTS Main	2	1000	NAIA T1	44	60	Davao	24	30
			NAIA T2	52	80			
			NAIA T3	64	80			
			NAIA T4	16	30			

As the OTS will be deploying IT equipment that will require internet connections, the bidder must provide a Dedicated / Leased Line using fiber optic solution per site. The Bidder must also provide back-up systems in case of failures of the following:

- For network connectivity, a back-up network must be provided in case the principal network provider fails;
- For system failure, a failover system must be provided for continuous monitoring; and
- For power failure, UPS must be provided per site.

2. CCTV WITH FRS AND NETWORK VIDEO MANAGEMENT SYSTEM (NVMS)

The proposed brand manufacturer must have been in the physical security for at least 10 years and must be present in the airport industry whether international or local. The System must be open platform capable to integrate to any third party solution.

The Manufacturer must not have any sanctions by any country/government in suspicion of espionage and backdoor systems in relations to network and physical security.

To ensure the interoperability, compatibility, and security of the proposed system, the brand manufacturer of the CCTV cameras must be an active member of Open Network Video Industry Forum (ONVIF) and must not have any history of suspension or expulsion from the said forum.

Video Storage for all video channels are to be computed for at least 90 days retention period.

3. EQUIPMENT AND CONNECTIVITY FOR THE OTS COMMAND AND CONTROL COMMUNICATIONS CENTER (C4) AND AIRPORTS

The winning bidder must be responsible to supply, deliver, install, test and commission all equipment for OTS C4 and airport sites.

(Please see attach Bill of Quantities)

B. Technical and Functional Requirements

COMMON FOR COMMAND CENTER AND AIRPORT SITES:

1. Viewing Software:

Viewing/reviewing of pictures and audio must be possible on a standard Windows PC/ android or IOS mobile/tablet support.

User workstations must be able to connect to the same NVR unit via network without functional limitation.

The user interface must allow cameras from different NVRs being displayed simultaneously on the same screen live and/or replay. This is independently from the video source, whether analog or IP.

The user interface must enable the parallel display of live and recorded pictures of the same camera or different cameras in multiple viewers.

The software must allow to create access rights profiles that can be allocated to users or user groups. Those rights profiles must grant not only access to NVRs, but to individual cameras or camera groups and to functions per camera, such as access to live video and/or replay. Access rights for exporting footage or printing images must also be included.

The software must allow a time-synchronized playback of any group of cameras displayed even if recorded at different speeds, on different recording units within the same LAN, on different recording units over the WAN.

A set of tools for the enhancing of the picture display including brightness, contrast, color rendering and zoom must be available. These changes in display must not affect recorded data.

The software must include alarm pop-ups with automatic alarm viewer scenarios displaying live images as well as automatic post-alarm and pre-alarm footage in predefined loops for single or multiple cameras.

The software must be capable of fast image retrieval, thru search criteria including time, date, camera number, event type, event data, or motion search. Image searches must also be applicable in one step to all connected NVRs.

The viewing software must allow various replay filters, for example filtering a viewer to show special event footage only, while discarding everything that was recorded outside such events.

The appearance search on a group of cameras must be synchronized to display all images responding to the search criteria from different cameras in different viewer windows- regardless of the number of NVR units to which the cameras of the group are connected.

The software must allow the user to mark and quickly retrace once found pictures via bookmark lists.

The viewing software must allow all connected NVRs to appear as one logical device so that cameras can be selected by camera number or name only, without forcing the operator to first select the NVR.

FOR COMMAND CENTER:

2. Network Video Management System (NVMS) for Command Center:

The IP-based CCTV Surveillance System equipped with a Video Management System, failover and recording must be provided per site. Must provide a complete and integrated application for the operation and management of the video and audio surveillance system.

- a) Proposed NVMS software application can be installed on any open platform hardware and does not require hardware multiplexer or time-division technology for video or audio.
- b) There must be no moving of the video recordings from live database to archive database. All recordings are to be recorded to the main storage destination without the need to move or copy it to another location. This is to prevent disk fragmentation that will degrade the search & export functions
- c) The proposed system must be capable of dynamic bandwidth high definition stream management while streaming live and/or recorded video to client. Such a process does

not overload the client with excess video throughput so that the client workstation is able to function properly without lag. This must apply both to live video streaming to client workstation, as well as playing back of recorded video streaming to client workstation.

1. Record both a high-quality stream and a low-quality stream.
 2. There must be the available function to allow for the discarding of the high-quality stream after a set amount of time determined by the owner.
- d) The proposed video management software must readily support the deployment of IOS- or Android-based mobile devices. Supporting the use of mobile devices must not require a license nor any activation of license as such.
- e) Fail-Over - the system must allow the use of an appliance (running the same version of the main server software) to create an enterprise distributed site(s). Users have the option to cluster these distributed sites into a single site.
- f) The proposed system must be capable of dynamic bandwidth management while streaming live and/or recorded video to client – this does not overload the client with excess video throughput so that the client workstation is able to function properly without lag. This must apply both to live video streaming to client workstation, as well as playing back of recorded video streaming to client workstation. This allows the client workstation to effectively work with ultra-HD cameras (and beyond) without the need for expensive GPU graphics card, not dual-CPU type of workstations
- g) The NVMS must support the deployment of unusual video motion detection, where the system will self-learn a scene, and upon atypical motion (i.e. An event that is not normal to the scene), the system will automatically 'tag' the atypical event. These 'tags' are later used as filters in the review of recorded footage, allowing the user to quickly focus attention on those atypical events. The "tags" are 'direction', 'location' and 'speed' of the object. User pre-configuration and/or pre-definition of rules per scene is not required in this Unusual Motion Detection mode. (There is no need for users to define the region of interest, and in each region of interest, define a set of rules).
- h) The NVMS Client must support the ability to perform searches for human across multiple cameras based on clicking on the object of interest, (appearance search).
1. The interface must present the user with the ability to specify for the search should be going forward in time, enabling the user to locate the 'last known location' of the suspect.
 2. The interface must present the user with the ability to specify for the search to be going backward in time, enabling the user to locate the suspect's first appearance in premise.
 3. This search will filter through all relevant camera recordings across the site and display that most likely match the object of interest.
 4. The search interface must also allow the user to specify, as filtering criteria, the Gender, Age, etc. for faster searching.
- i) The NVMS interface must have a user interface that easily allows operators to focus their attention. The interface must be able to represent the camera's status, and hence allowing the user to easily have a visual overview of all cameras in the site. Colored representation of the status of the cameras, and based on the colors, users can quickly go to the camera in question to respond to the incident.
- j) NVMS system must have built-in function to allow operators to work together collaboratively either locally or remotely with other operators such that both users are able to view the same investigation (live and recorded video) during a forensic activity. Such a feature must not require a license activation on the other collaborative workstation.

- k) The NVMS must allow the user to create several watch lists, each list with their own identity retention period which is configuration. Face profiles added to this watch list will assume the retention period configured. Operators are also able to manually delete face profiles from the watch list or move the profiles between watch lists.
- l) The NVMS allows operators to generate reports showing all instances of non-compliance to social distancing. This report overview allows facilities managers to understand the areas of non-compliance so that a re-design / re-alignment of the space can be executed to allow the social distance to take place.
- m) The NVMS Client must support the ability to perform searches for human across multiple cameras based on clicking on the object of interest, (appearance search).
 - 1. The interface must present the user with the ability to specify for the search should be going forward in time, enabling the user to locate the 'last known location' of the suspect.
 - 2. The interface must present the user with the ability to specify for the search to be going backward in time, enabling the user to locate the suspect's first appearance in premise.
 - 3. This search will sift through all relevant camera recordings across the site & display thumbnails that most likely match the object of interest. Face profiles alongside with the clothes color must be some of the factors used in the search process. –
 - 4. The search interface must also allow the user to specify, as filtering criteria, the Gender, Age, Hair Color, and/or Clothing Color of the object of interest.
 - 5. The search interface must also include for users to choose, as filtering criteria, the type of vehicles to search for, namely cars, trucks, buses, motorcycles, bicycles, and to specify the colors associated with the type of vehicles.
 - 6. The VMS must identify face mask and social distancing violations and shall display in a dashboard to show the time and camera locations in the format of timeline histograms where violations. As an added safety measure, face mask detection can also be configured as alarms, and must be displayed to notify the operator for live monitoring and response purposes.
 - 7. The system must be able to conduct contact tracing through the NVMS appearance search functionality.
- n) The client interface must allow the user to define faces of interest and add it to a watch list. Faces that appears in a scene that matches a face in the watch list will cause a change of status in the focus of attention monitoring window. During this event, both the face in the watch list as well as the face in the live camera will pop up in the window, allowing operators to mouse over and do a playback immediately. This facilitates fast response. The camera in question for face appearance does not need special mounting; normal surveillance mounting positions, with the proper distance (ppm) will be able to achieve face matching.
- o) Recording Storage Capacity: Expandable without additional licenses.

Video Decompression: Decompresses H.264, H.265 video through Owner graphics card and graphical processing unit.

Provide an enterprise level software solution that is scalable from one client, server and camera up to at least:

- 100 servers per site.
- 300 cameras per server.
- 10,000 cameras per site.

Unlimited number of concurrent client-to-site connections.

Expressed numbers may be exceeded depending on bandwidth capability of network and server.

The NVMS server and client software applications can be installed and run on same computer or on separate computers.

3. Network Video Recorder (NVR) Specifications (Command Center):

Preload NVMS applications in the following hardware:
Must be able to support variable resolution up to 5K.

- a. Throughput: NVR system must be capable of managing a combined throughput with handling for simultaneous recording, playback and live streaming.
Recording: 1500Mbps
Playback: 600Mbps per connection
- b. Search Capacity: Provide products capable of supporting the following:
 1. Events search such as motion, digital input, classified object, arbitrary events and tampering across all feature enabled cameras connected to the system.
 2. Object similarity search up to 200 cameras simultaneously. When combined with facial recognition the system must be capable of supporting up to 100 cameras using object similarity and up to 50 cameras using facial recognition features
- c. System Certifications from at least two (2) of the following:
 1. UL and cUL certification marks for Canada/USA.
 2. NRCS certification mark for USA.
 3. CE certification mark for European Union.
 4. RoHS certification mark for European Union.
 5. Reach (SVHC) certification mark for European Union.
 6. WEEE certification mark for European Union.
 7. RCM certification mark for Australia.
- d. System Design (Minimum):
 1. Operating System: Microsoft Windows Server 2016.
 2. Processor: Intel Xeon
 3. RAM: 32GB DDR4 (2 x 16GB DDR4)
 4. Video Output: VGA.
- e. Network: Provide system with the following configuration:

[Specifier Notes] – Retain the first subparagraph below for Avigilon NVR 4x Premium Models with capacities of 192 TB or 217 TB. Retain the second subparagraph below for Avigilon NVR 4x Premium Models with capacities between 64 TB and 157 TB.

 1. Two (2) 10Gb Ethernet SFP+ ports and four (4) 1Gb Ethernet RJ-45 ports (1000Base-T).
 2. Two (2) 10Gb Ethernet SFP+ ports and six (6) 1Gb Ethernet RJ-45 ports (1000Base-T).

Drive Configuration:

- a. Video Storage: 3.5" hard disk drives, hot-swappable, RAID 6
- b. Operating System: (2) M.2 SSD drives, RAID 1;
 - c. Storage Capacity: Minimum of 157 TB when configured with RAID 6; Capable of at least 90 days retention period, minimum of 25 frames per second at 6MP for live viewing and recording.
- d. Operating System: Microsoft Windows Server 2016;
 - e. Networking: (2) 10GB Ethernet SFP+ ports and (6) 1GB Ethernet RJ-45 ports (1000Base-T);
- f. Power Supply: Dual Redundant Hot-swappable
- g. Video Output: VGA;
- h. Mounting: 2U rack mount chassis;
- i. Operational Range:
 - Temperature: 10 degrees C to 35 degrees C [50F to 95F];

- Relative Humidity: 10–80 percent (non-condensing);
 - Altitude: 3048 meters [10,000 ft].
- j. Electrical Power:
- Input: 100 to 240 V AC, 50/60 Hz, auto-switching;
 - Maximum Power Consumption: No greater than 2200W.

4. Video Analytics Specifications (Command Center & Airport Sites):

The system must be capable of real time image processing on all video inputs and must not decrease the capacity of recording or live streaming.

The system must be able to integrate other specific video analysis algorithms for specific applications and video channels.

The system must be capable of people counting, detection of non-motion, classification of moving objects (person, other objects, etc.) or loitering algorithms.

The system must include Facial Recognition providing real-time facial image matching for video surveillance systems deployed in airports, checkpoints and many others where continuous pro-active threat detection is essential.

The video analytics technology should follow the new industry standard deep learning AI search engine for video. That sorts through hours of video with ease, to quickly locate a specific person or vehicle of interest. The person appearance search can improve incident response time and enhance forensic investigations by helping operators compile robust video evidence, create a powerful narrative of events, and reveal a vehicle or individual's route or last-known location.

5. Video Wall Screen Panel (Command Center):

- a. Must be rated for continuous 24 x 7 operation
- b. Must be at least 55" inches
- c. Must have at least a DVI or HDMI or DP
- d. Must have a bezel thickness of 0.44mm up to 0.80mm
- e. Must have viewing angle of 178x178
- f. Must have at least 1080p resolution
- g. Must have power consumption range of 210W-250W
- h. Must operate from 0°C to 40°C Temperature

6. Video Wall Management (Command Center):

- Must support H.264/H.265 decoding immediately
- Must support up to 64 windows per display
- Must support Multicasting Windows
- Must support Power-Over-Ethernet
- Must support KVM



Interface	HDMI 1.3
Channels	1
Resolution	Support to 3840 * 2160, minimum
Color Depth	8/10 bit
Ethernet	1000MB network with redundancy
Power-on-Ethernet	Support POE
Protocol	DHCP, UDP, TCP/IP
IP Address	Static IP, Automatic IP
Image Processing	3rd-gen DVCS Engine Up to 1920 * 1200 @ 60fps Image processing Support H.264/H.265/MPEG4 decoding Window title with vector texts

	High tap filter for image scaling
	Accurate synchronization for display wall
	Up to 64 free window per display
	Bezel-compensation and overlap Control
	DVCS Manager V4.0 or above, Windows Server 2016 X64 or above
Client	IE 8.0 or above KVM
	Support keyboard and mouse for remote computer control
IP KVM	LED
Video	HDMI x1 (Type A)
Serial Port	RS-232 x1 (DB-9)
USB	USB x2 (Type A)
Network	RJ-45 x2
Input	Mini-jack, +12V DC Adaptor
Frequency	50/60 Hz
Power Consumption	Max 12 Watts Accessories
DC Adapter	1 Reliability
MTBF	>100,000 hours

7. Video Wall Management Software (Processor) (Command Center):

The network based solution should consist of a set of encoders and decoders which can encode Digital RGB signals and transmit them over the network. The decoders should be able to decode these signals and display up to 64 sources per channel. The decoders should have high accuracy frame-sync to enable multiple decoders in a Video wall to form a perfect video wall. It should be possible to show any of the input sources or all of the input sources in any position on the wall, in any size and any configuration. The system should support automatic format detection for plug and play simplicity. Adding a source or display unit to the system should only entail adding an encoder or a decoder. The quantity of encoders should be equal to the inputs to the system and the quantity of the decoders should be equal to the no of displays in the system. The encoder and decoders should meet the minimum specification as follows

Architecture	Browser & Server based Architecture
Web browser login	User should be able to login the server. There should be no need to install any additional software on the control computer.
Layouts	Should support static layout and automatic layout creation, editing, loading, and deleting. Any layout should be loaded in under 1 sec (irrespective of size of display & number of windows)
Multiple Display Support	Software should able to manage multiple displays simultaneously including status monitoring, video window control and properties setup.
Preview of signals	Software should able to preview video signals before opening window on display wall
Drag & Drop	Operator should be able to preview the content of video/RGB signal by dragging the signal source into the signal preview window should be possible
Preview of signals	The system software should support at least 5 RGB / Video signals preview at the same time.
Multiple concurrent users	Software should support multiple users managing a display wall or more display walls at the same time.
Layout Scheduler	All the Layouts can be scheduled as per user convenience
Auto Launch of Layouts	Software should support auto launch of Layouts according to specified time event by user
Log file	Software should support user log file management
Offline Layouts	It should be possible to create offline layouts

No of input source per channel	It should support at least 48 signal sources displaying in one display unit simultaneously with freely scalable windows.
Playback	The software GUI should be able to show the live view of all the sources on the browser
Grid management	System software should be able to manage videowall region into multiple regions as per user requirements.
Prewindow option	User should be able to see multiple signal source in one window with specified time interval and with user defined sequence.
Control operator workstations	Administrator can monitor & control the workstation of operators
WiFi Control	User should be able to control complete system through wireless device (i.e. laptop, IPAD, Android system) over WiFi

8. VOIP IP Phone Command Center Operators & Airport Sites

Must have full VOIP capabilities which can be deployed over a local network or private network.

Must use the existing IP network of the IP Surveillance System to facilitate combined voice & data communications on a single IP network.

Calls to remote destinations (non-Metro Manila) but within the Office for Transport Security's private network must be free of NDD charges.

VOIP Bandwidth must depend on the global standard codec/voice compression used such as G.711a/μ, G.722, G.729a, iLBC

Must include all necessary cables to interconnect and operate all equipment.

The phone supports CDP and 802.1Q/p standards, and can be configured with an 801.1Q VLAN header containing the VLAN ID overrides configured by the Admin VLAN ID.

The user can configure IP address assignment statically or through the DHCP client.

Display 3.5" 396x162 pixels

Operating Temperature 32 to 104°F (0 to 40°C)

Safety UL 60950

9. VOIP Conferencing Station – For Command Center Situation Room

Key Functions:

4 soft keys to access screen-based applications

Five-way navigation support

Graphical display 255 x 128 pixels

Protocol support: (SCCP)

360-degree room coverage

10. VOIP Appliance Server & License Software

Must have Collaboration Architecture. It extends voice and video features to network devices such as IP phones, telepresence endpoints, media-processing devices, gateways, and multimedia applications

Integrates voice-messaging and voice-recognition functions to provide continuous global access to calls and messages.

Unified console provide the human attendant console operator with the tools to quickly accept and effectively dispatch incoming calls to individuals across the organization

System must provide embedded standards based enterprise instant messaging and network-based presence. The service is secure, scalable, easy to manage, and rich in features

Supports multiple applications (typically 5 to 7) in a single virtualized server platform; maximum capacity of 1000 users, 1200 devices, and 100 contact center agents. Ideal for scale end-to-end collaboration deployments.

Maximum number of users : 1000
Maximum number of mailbox : 1000 Mailbox's and 24 voicemail per ports
Number of devices supported : 1200

11. NVMS Workstations and Multi-Display LED

Remote Monitoring Workstations are purpose-built or to expand and scale existing deployments with a cost-effective high-performance workstation for remote monitoring. Designed to work seamlessly with video management software, the Remote Monitoring Workstations enable users to view high definition video streams on multiple monitors or video walls.

Technical Specification:

- Must be made by top 10 branded manufacturers (not clone)
- Must have four (4) active display ports 60Hz
- Must Support 4 x 4K display resolution quality
- Must Support 144 viewing simultaneous streams
- Must support full 4K video streaming for monitoring high resolution
- Must have recovery partition for restoring default setting in the event of system issues without the need for external hardware or an internet connection
- Must have licensed operating system Microsoft Win 10 IoT Enterprise LTSC
- Must have at least 8-cores 8-threads processor
- 256GB Solid State Drive + 1TB HDD
- 16GB DDR4 2666MHz RAM expandable to 32GB
- Approved Certification UL, CE
- 2x Gigabit Ethernet Ports
- USB KB/M

12. Display Panel

- Viewing image size 24 inches LED backlight
- Min. Resolution 1920x 1200 at 60hz
- Aspect ratio 16:10
- Viewing angle typical 178 degrees vertical & horizontal
- Brightness 50 to 300 cd/m2
- Connectivity 2xHDMI(MHL), 1xMini DisplayPort/ DisplayPort 1.27, 1 DisplayPort out (MST), 1 x Audio Line out, 5 x USB 3.0 ports
- In-plane switching, anti-glare with hard coat 3H
- Stand Height-adjustable stand, tilt (typical: 5° forward or 21° backward), pivot (clockwise and counterclockwise), swivel and built in cable-management
- Power Input 100 to 240 VAC/50 or 60 Hz ± 3 Hz/1.5 A (maximum)
- Power Consumption 23W, Standby/sleep .05W

13. Core Switch Layer 3 (Command Center)

- Must have Large switching and routing table support Smart City and IoT networks
- Must have Active Fiber Monitoring (AFM) for fiber data and stacking links
- Must have a Device GUI for web-based management
- Must have a Control Plane Prioritization (CPP) ensures the CPU always has sufficient bandwidth to process network control traffic

Enclosures must be standard with both leveling feet and castors. Leveling feet can be quickly adjusted through the use of a screwdriver or drill, eliminating the need to reach underneath with a wrench.

Perforated front and rear doors provide ample ventilation for servers and networking equipment. Front door perforated area is optimized with a curved profile to provide greater surface area and allowance of more perforation coverage and higher perforation rating.

The roof, side panels and front and rear doors are grounded to the frame of the enclosure. Eight additional electrical grounding inserts are located on the frame for external grounding

42U Rack Unit

19" active standard machine stand

Ceiling Cover heat dissipation fan – 4 units

Steel dismountable side door

Steel back door with lock

Active chassis all direction trundle

Six socket versatile electric outlet

Structurally engineered to swing freely even under maximum load capacity

Thermal management design (vents, perforated doors, and with fan) optimizes air flow for improved heat dissipation

Adjustable rail mounts to accommodate various depths of network equipment including POE switches

17. Uninterruptible Power Supply (UPS) for Command Center:

Must be manufactured by an industry recognized IT UPS systems manufacturer

Must be of a double on-line conversion UPS

Must be equipped with a manual by-pass switch for maintenance purposes

Must be rack-mountable

Must have integrated network management for automated shutdown of connected PC's

Must have hot-swappable batteries

Must be capable of adding additional back-up battery modules

Must be at least 50KVA in capacity capable of powering up to 9000W load

Must have input parameters of 43-67Hz 180-270VAC

Must have output parameters of 230VAC, 60Hz

Must be capable of sustaining power outages, sags, surges, transients, under/over-voltage and frequency deviation while maintaining stable full-sinewave power output to connected devices

Must have lowest total cost of ownership (TCO)

Operating level of up to 96.5% in double conversion mode resulting in significant savings in operational costs.

99% superior efficiency is delivered in Energy Saver System mode (ESS).

High efficiency even when UPS load levels are low, optimized by Variable Module Management System (VMMS).

Maximal power and energy density ensures a compact footprint

Ultimate Resiliency

HotSync load-sharing technology enables parallel operating of static converters without communication or load share signals. Eliminating the communication link eliminates risk of single point of failure.

Hot-Swap operation for UPM, STS Module

Battery Module Easy-Maintenance and integrated battery health monitor system for over voltage, under voltage and fuse blown.
One static switch per UPS enables the full bypass capacity to be achieved from day one. Power modules can be added as loads increase.
Equipped with an ultra-rapid fuse in the Static Switch

Safety Features

Equipped with a back feed contactor
no need for additional installments
Wide power factor range meets rapidly changing load power factor without de-rating.
Intelligent battery charging through Advanced Battery Management prevents unnecessary charging and significantly retards battery wear rate.

Highly Scalable and Easy Deployment

Scalable, modular architecture and 'Pay as you grow' capability minimizes CapEx.
Easy access allows fast MTTR (mean time to repair).

Easy Management

Wide range of connectivity options (Web/SNMP, Modbus/Jbus, relay contacts)
Intelligent Power software integrates with leading virtualization management systems for monitoring and managing. The intuitive touchscreen LCD user interface and visual data logging provides clear information on the UPS status.

Specification

Power Rating	: 50KVA
Efficiency in double conversion mode	: Up to 96.5%
Efficiency in Energy Saver System	: >99%
Inverter/Rectifier topology	: Transformer-free IGBT with PWM
Parallel capability	: Up to 8 units
Audible noise	: (Double conversion) < 65dBA
UPS Topology	: Double Conversion
UPS dimensions (width x depth, height)	: 600mm x 1100mm x 2020mm
Input wiring / Voltage Rating	: 3 Phase 220/380, 230/400, 240/415 V
Rating input frequency	: 50 or 60 Hz, user configurable
Internal backfeed protection	: Yes
Battery Type	: VRLA, Eaton Lithium Pack
Permitted load power factor	: 0.8 lagging ~ 0.8 leading
Safety	: IEC 62040-1
EMC	: IEC 62040-2
Performance	: IEC 62040-1
RoHS	: EU directive 2011/65/EU

18. Unified Threat Management – UTM

Must have a deep packet inspection -a high-performance inspection engine performs stream-based bi-directional traffic analysis, identifying individual applications, while blocking intrusion attempts and malware.
Protects your network by scanning for threats in inbound traffic, while also protecting your business reputation by scanning for threats in outbound traffic.
Multiple threat detection and protection capabilities are integrated within a purpose-built solution that provides single-pass low-latency inspection and protection for all network traffic.
Application bandwidth management – to manage application bandwidth to support business requirements, while limiting non-essential applications.

URL Filtering Enables HTTP or HTTPS access to particular websites to be allowed (whitelist) or blocked (blacklist) with user-defined lists. A subscription service can also be employed, utilizing a frequently updated blacklist.

Firewall SD-WAN, UTM Offload, IPv6 Transition, VRF-lite

UTM Malware Protection, DOS Attack Protection, Automatic Security Updates, Zone Based Protection, Bot Activity Detection, Intrusion Detection and Prevention System (ISD/IPS), Protocol Anomaly Detection

Virtual Private Network (VPN) Dynamic Routing VPN tunnels, Redundant VPN Gateway, SSL/TLS VPN for secure remote access, IPsec VPN for site-to-site and multi-site connectivity

WAN ports	:	2 x 1000X SFP / 2 x 10/100/1000T RJ-45 combo
LAN ports	:	8 x 10/100/1000T RJ-45
Other ports	:	1 x USB, 1 x RJ-45 console, 1 x SDHC slot
Operating temp	:	0°C to 50°C (32°F to 122°F)
Safety Certification:	:	UL, cUL, TuV

19. Network Video Recorder Specifications (Airport Site)

Storage size will depend on the airport site requirements, as follows:
64TB / 128TB NVR Storage

Preload NVMS applications in the following hardware:
Must be able to support variable resolution up to 5K.

Throughput: NVR system must be capable of managing a combined throughput with handling for simultaneous recording, playback and live streaming.

Recording: 1500Mbps

Playback: 600Mbps

Search Capacity: Provide products capable of supporting the following:

Events search such as motion, digital input, classified object, arbitrary events and tampering across all feature enabled cameras connected to the system.

Object similarity search up to 200 cameras simultaneously. When combined with facial recognition the system must be capable of supporting up to 100 cameras using object similarity and up to 50 cameras using facial recognition features

System Certifications from at least two (2) of the following:

- UL and cUL certification marks for Canada/USA.
- NRCS certification mark for USA.
- CE certification mark for European Union.
- RoHS certification mark for European Union.
- Reach (SVHC) certification mark for European Union.
- WEEE certification mark for European Union.
- RCM certification mark for Australia.

System Design (Minimum):

- Operating System: Microsoft Windows Server 2016.
- Processor: Intel Xeon
- RAM: 32GB DDR4.(2 x 16 GB DDR4)
- Video Output: VGA.

Network: Provide system with the following configuration:

[Specifier Notes] – Retain the first subparagraph below for Avigilon NVR 4x Premium Models with capacities of 192 TB or 217 TB. Retain the second subparagraph

below for Avigilon NVR 4x Premium Models with capacities between 64 TB and 157 TB.

- Two (2) 10Gb Ethernet SFP+ ports and four (4) 1Gb Ethernet RJ-45 ports (1000Base-T)
- Two (2) 10Gb Ethernet SFP+ ports and six (6) 1Gb Ethernet RJ-45 ports (1000Base-T)
- Drive Configuration:
- Video Storage: 3.5" hard disk drives, hot-swappable, RAID 6;
- Operating System: (2) M.2 SSD drives, RAID 1;
- Storage Capacity: Minimum of 180TB raw, 157 TB when configured with RAID 6; Capable for at least 90 days retention period, minimum of 25 frames per second at 6MP for live viewing and recording.
- Operating System: Microsoft Windows Server 2016;
- RAM: 32GB DDR4 (2 x 16 GB DDR4);
- Networking: (2) 10GB Ethernet SFP+ ports and (6) 1GB Ethernet RJ-45 ports (1000Base-T);
- Power Supply: dual redundant, hot swappable
- Video Output: VGA;
- Mounting: 2U rack mount chassis;
- Operational Range:
 - Temperature: 10 degrees C to 35 degrees C [50F to 95F];
 - Relative Humidity: 10–80 percent (non-condensing);
- Altitude: 3048 meters [10,000 ft].
- Electrical Power:
- Input: 100 to 240 V AC, 50/60 Hz, auto-switching;
 - Supply: Appliance must be configurable for multiple power supplies that may be replaced without the need to power down (hot-swappable).
- Maximum Power Consumption: No greater than 2200W.

32 TB Storage NVR

Preload NVMS applications in the following hardware:
Must be able to support variable resolution up to 5K.

Throughput: NVR system must be capable of managing a combined throughput with handling for simultaneous recording, playback and live streaming.

Recording: 750 Mbps

Playback: 450 Mbps

Search Capacity: Provide products capable of supporting the following:

Events search such as motion, digital input, classified object, arbitrary events and tampering across all feature enabled cameras connected to the system.

Object similarity search up to 200 cameras simultaneously. When combined with facial recognition the system must be capable of supporting up to 100 cameras using object similarity and up to 50 cameras using facial recognition features

System Certifications from at least two (2) of the following:

- UL and cUL certification marks for Canada/USA.
- NRCS certification mark for USA.
- CE certification mark for European Union.
- RoHS certification mark for European Union.
- Reach (SVHC) certification mark for European Union.
- WEEE certification mark for European Union.
- RCM certification mark for Australia.

System Design (Minimum):

- Operating System: Microsoft Windows Server 2016.or Microsoft Windows 10 IoT Enterprise
- Processor: Intel Xeon
- RAM: 2 x 8 GB DDR4
- Video Output: VGA.

Network: Provide system with the following configuration:

[Specifier Notes] – Retain the first subparagraph below for Avigilon NVR 4x Premium Models with capacities of 192 TB or 217 TB. Retain the second subparagraph below for Avigilon NVR 4x Premium Models with capacities between 64 TB and 157 TB.

- Two (2) 10Gb Ethernet SFP+ ports (optional) and four (4) 1Gb Ethernet RJ-45 ports (1000Base-T) (optional).

Drive Configuration:

- Video Storage: 3.5" hard disk drives, hot-swappable, RAID 6;
- Operating System: (2) M.2 SSD drives, RAID 1;
- Storage Capacity: Minimum of 64TB raw, 48TB when configured with RAID 6; Capable for at least 90 days retention period, minimum of 25 frames per second at 6MP for live viewing and recording.
- Operating System: Microsoft Windows Server 2016 or Microsoft Windows 10 IOT Enterprise;
- RAM: 2 x 8 GB DDR4
- Networking: (2) 10GB Ethernet SFP+ ports (optional) and (4) 1GB Ethernet RJ-45 ports (1000Base-T);
- Power Supply: single
- Video Output: VGA;
- Mounting: 2U rack mount chassis;
- Operational Range:
 - Temperature: 10 degrees C to 35 degrees C [50F to 95F];
 - Relative Humidity: 10–80 percent (non-condensing);
- Altitude: 3048 meters [10,000 ft].
- Electrical Power: Input: 100 to 240 V AC, 50/60 Hz, auto-switching;

12/24 TB storage HD Video Appliance

System Design:

Form Factor: 1U Rack Mount.
Network Connectivity: (2) 10/100/1000 Mbps
Memory (RAM): 8GB DDR4.
Hard Drive: Up to (4) 3.5 inch SATA.

Capabilities:

Recording Rate: Up to 300 Mbps.
Playback Rate: Up to 100 Mbps.
Storage Capacity: 12TB, 24TB (RAID 5).
Switch Control: Managed switch with web-based user interface.

Ambient Operating Conditions:

Temperature: 0 degrees C to 40 degrees C (32 F to 104 F).
Relative Humidity: 10 – 90 percent (non-condensing).

Electrical Power:

Power Supply: Single, non-redundant.
Input: 100 to 240 V AC, 50/60 Hz, auto-switching.
Power Over Ethernet (PoE) Support: (24) 10/100 (802.3af), 240W total.
Maximum Power Consumption: No greater than 420W

Operating System: Microsoft® Windows 10 IoT Enterprise.

Recording Image Rate: Up to 30 images per second, per channel

System Certifications:

UL and cUL certification marks for Canada/USA.
CE certification mark for European Union.
RCM certification mark for Australia.
RoHS compliance for European Union.
WEEE mark for European Union.

Electromagnetic Emissions Certifications:
FCC Part 15 Subpart B (Class A).
FCC Part 15 Subpart B (Class B).
ICES-003.
EN 55032.
EN 61000-6-3.
EN 61000-6-4.
EN 61000-3-2.
EN 61000-3-3.

Electromagnetic Immunity Standards:
EN 55024.
EN 61000-6-2.

Safety Standards:
UL 62368-1.
CSA 62368-1.
IEC/EN 62368

20. 6MP Fixed Dome Facial Recognition / Artificial Intelligence / Analytics Camera (Airport Site)

Video Standards: H.265 / H.264 / MJPEG / HDSM SmartCodec technology

Networking Standards:

1. IEEE 802.3af (Power over Ethernet).
2. IEEE 802.1X (Authentication).
3. IPv4 (RFC 791).
4. IPv6.

Interoperability Standards:

1. ONVIF Profile S.
2. ONVIF Profile T.
3. ONVIF Profile G.

Support G.711 PCM 8kHz audio compression.

Streaming Support Requirements:

Provide video cameras that incorporate support for at least the following:

- a. RTP/UDP.
- b. RTP/UDP multicast.
- c. RTP/RTSP/TCP.
- d. RTP/RTSP/HTTP/TCP.
- e. RTP/RTSP/HTTPS/TCP.
- f. HTTP.

Security Requirements:

Provide video cameras with the following security requirements:

- a. Password protection.
- b. HTTPS Encryption.
- c. Digest authentication.
- d. WS authentication.
- e. User access Log

Connectivity:

- a. 100BASE-TX Fast Ethernet-port with RJ-45 socket, auto negotiation of network speed and transfer mode.
- b. Terminal for receiving line level analog audio from an external microphone.
- c. Terminal for providing line level analog audio for connection to an external speaker.

Performance:

- a. Image Sensor: 1/1.8 inch progressive scan CMOS.
- b. Maximum Resolution:
 - 1) Aspect Ratio: 16:9: 3200 x 1800.
 - 2) Aspect Ratio: 3:2: 3072 x 2048.
- c. Imaging Rate: (50 Hz/60 Hz): 25 fps/30 fps.
- d. Dynamic Range:
 - 1) WDR Off: 85 dB.
 - 2) WDR On: 120 dB.
- e. Minimum Illumination:
 - 1) Color: 0.055 lux.
 - 2) Monochrome: 0.028 lux.
- f. Field of View:
 - 1) Horizontal angle: 16:9: 52 degrees to 92 degrees.
 - 2) Horizontal angle: 3:2: 41 degrees to 73 degrees.
 - 3) Vertical angle: 16:9: 29 degrees to 51 degrees.
 - 4) Vertical angle: 3:2: 27 degrees to 48 degrees.

System Certifications:

- a. UL and cUL certification marks for Canada/USA.
- b. CE, RoHS and Reach (SVHC) certification marks for European Union.
- c. RCM certification mark for Australia.
- d. EAC certification mark for Russia.
- e. BIS certification mark for India.
- f. KC certification mark for Korea.

Safety Standards:

- a. UL/CSA/IEC/EN 62368-1.
- b. With IR: IEC 62471.

21. 360° Fisheye Camera

Standards:

- Video Standards: H.264 / MJPEG / HDSM SmartCodec technology.
- Image Standards: MPEG-4 - ISO/IEC 14496-10 AVC (H.264).
- Networking Standards:
 - IEEE 802.3af (Power over Ethernet).
 - IEEE 802.1X (Authentication).
 - IPv4 (RFC 791).
 - IPv6.
- Interoperability Standards:
 - ONVIF Profile S.
 - ONVIF Profile T.

Encoding Requirements:

- Support compression and image quality settings from 1 to 20 to configure bandwidth utilized by the camera and desired image response. Provide user configuration of compression quality and image rate per camera.
- Provide independently configured simultaneous H.264 and Motion JPEG streams (multi-stream).
- Support Motion JPEG encoding in a selectable range from 1 up to 15 frames per second based on resolution configured.
- Support H.264 encoding in a selectable range on resolution configured:
 - Minimum 20 frames per second at 12 MP resolution.
- Provide user configuration of compression format, compression quality, maximum bit rate, key frame interval, and image rate per camera.
- Support motion compensation during motion estimation in H.264, able to maintain frame rate, regardless of scene complexity, when bandwidth is capped at 17.5mbps at 12 FPS.
- Support G.711 PCM 8kHz audio compression.
- Support Tamper Detection.

Image Control Requirements:

- Image Compression Method: H.264 (MPEG-4 Part 10/AVC), Motion JPEG
- Streaming: Multi-stream H.264 and Motion JPEG
- Motion Detection: Pixel motion
- Electronic Shutter Control: Automatic, Manual (1/7 to 1/8000 sec)
- Iris Control: Fixed
- Day/Night Control: Automatic, Manual
- Flicker Control: 50 Hz, 60 Hz
- White Balance: Automatic, Manual
- Backlight Compensation: Adjustable
- Privacy Zones: Up to 64 zones

Video Overlay Requirements:

Provide video cameras with the following overlay requirements:

- 64 individually configurable privacy zones to conceal defined areas in image as non-viewable. Masks required to be dynamically adjusted based on current zoom-factor, without capability of operator bypass.
- Video masked by privacy zones must be obscured prior to streaming.

Security Requirements:

Provide video cameras with the following security requirements:

- Support the use of the following:
 - Password protection.
 - HTTPS Encryption.
 - Digest authentication.
 - WS authentication.
 - User access Log.
 - SSL encryption.
- Restrict access to the built-in internet server by usernames and passwords at three different user group levels.

Electrical Power: Cameras capable of being powered by the following power sources:

- PoE: up to IEEE 802.3af Class 3 PoE Compliant.
- PoE+: IEEE 802.3at Class 4 Compliant.
- DC Power: 12 V +/- 10%, 2.125 A min., L.P.S. per IEC 60950-1.
- Battery Backup: 3V manganese lithium.

Operational Range:

- Operating Temperature:
 - 12V DC Power: -40 degrees C to +55 degrees C [-40 F to +131 F].
 - PoE+ Power: -40 degrees C to +55 degrees C [-40 F to +131 F].
 - PoE Power: -20 degrees C to +55 degrees C [-4 F to +131 F].
- Relative Humidity: 0–95 percent (non-condensing).

System Certifications:

- UL and cUL certification marks for Canada/USA.
- CE certification mark for European Union.
- RCM certification mark for Australia.
- EAC certification mark for Customs Union (Russia, Belarus, Kazakhstan).
- KC certification mark for Korea.

Safety Standards:

- UL/CSA/IEC/EN 60950-1.

22. 24 Ports Switch L2 PoE+ for Airport Sites

- a. Layer 2 Switching: 24Ports Gigabit Layer2 ONVIF Switch, with Transient Voltage Surge Suppression, SFP Ports & Management Software

- Surge Protection /each PoE Port : 6kV
- Operating Temperature : 0°C ~ 50°C (32°F ~ 122°F)
- Operating Humidity : 10% to 90% non-condensing
- Safety : EN60950-1, IEC60950-1
- EMC : CE, FCC, VCCI, C-Tick Class A
- Surge : IEC-61000-4-5

b. Data Cabinet – 22 RU for Sites:

- a. Server Rack Cabinet
- a. Painted steel ensures durability.
- b. Clear swing door lockable front panel with key.
- c. Tempered Glass Front door with Lock
- d. Rear metal door with lock
- e. Metal sides with removable panels
- f. Rear lockable wheel casters
- g. Front fixed stands
- h. Strategically situated ventilation vents
- i. 2 x 220v 12cm Exhaust Fans (Top Mount)

c. Uninterruptible Power Supply (UPS) for Sites:

Must be at least 1500VA to 3KVA in capacity capable of powering up 1350W to 2700W load
 Must have pure-sinewave
 Must have input voltage parameters of 160V-294V (60 Hz system), 40Hz in low-sensitivity mode
 Must have output parameters of 230VAC, 60Hz
 Must have communication 1 USB port + 1 RS232 serial port and relay contacts (USB and RS232 ports cannot be used simultaneously), 1 mini-terminal block for remote ON/OFF and Remote Power Off
 Operating temperature 0 to 35°C
 Safety IEC/EN 62040-1, UL 1778

V. PROJECT IMPLEMENTATION TIMELINE

ACTIVITY	October 2021				November 2021				December 2021				January 2022				February 2022				March 2022				April 2022							
	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4				
Pre-ProcConf																																
Advertisement																																
Pre-Bid Conference																																
Response to Bidders Clarification and Posting of Bid Bulletin																																
Deadline of Submission of Bids and Bid Opening																																
PSDBM TWG Evaluation																																
Joint Post Qualification																																
PSDBM BAC Resolution and Recommendation																																

6. Contractor must submit a notarized certification from OTS that on-site inspection was conducted by the bidder on at least five (5) sites.

Bids not complying with the above instruction must be disqualified.

7. Other Eligibility Requirements that must form part of the technical documents:
 - a) Bidder must undertake to provide maintenance support nationwide during the warranty period as specified in the "Warranty and Guarantee Requirements".
 - b) Bidder must have a valid VAS (Value Added Service) License issued by the National Telecommunications Commission (NTC) to offer Internet Access Service and Virtual Private Network (LAN/WAN).
 - c) The Bidder and the system must be able to comply with the latest National Privacy Commission Advisory adhering to the guidelines on the use of CCTV systems. Supplier must undertake to adhere with the provisions of R.A. No. 10173 (also known as Data Privacy Act of 2012) and NPC Circular 16-02 (Data Sharing Agreements Involving Government Agencies) and must sign a Confidentiality and Non-Disclosure Agreement with OTS.
 - d) Supplier must be at least 10 years in the security surveillance business as stated in the SEC registration.
 - e) The assigned Project Manager for this project have a Project Management Certification and must be a Professional Electronics and Communications Engineer or at least Licensed Electronics and Communications Engineer with an experience of at least 5-years in video surveillance with video analytics for Command and Control Communications Center;
 - f) Supplier must have employed Safety Officer certified by Occupational Health and Safety Standard (OHSAS) or Construction Occupational Safety and Health (COSH). Said certification must be submitted.
 - g) Manufacturer of all CCTV equipment, Network Switches, and enterprise Servers must be EN or UL & ISO Certified.
 - h) The Bidder must submit together with the Bid, the Statement of Availability of Key Personnel to be accompanied by the list of names of minimum key personnel being proposed for the project together with their respective curriculum vitae showing among others their Educational Attainment, professional Qualification, Experience and copies of their respective valid and subsisting PRC licenses.

The prospective bidders must have the minimum technical staff to be assigned to the Project composed of the following:

1. One (1) System Installation & Integration Engineer – must be a Philippine Licensed Electronics & Communications Engineer with at least 5 years track record and experience in the supply, installation, testing & commissioning of equipment and system software of CCTV Security Surveillance System works.
 2. One (1) Foreman -with experience in the supply, installation, testing & commissioning of equipment, and system software of CCTV Security Surveillance System works.
 3. One (1) Safety Officer as described above.
- i) All systems software licenses and updates must be perpetual except for the Unified Threat Management (UTM).
 - j) Must be a certified installer of Fiber Optic Cables and must show partnership Certification from local internet service providers.
 - k) Bidder must have a PCAB accreditation specializing in Communications Facilities; Medium A License Category B.
 - l) Bidder must supply Brand New equipment as certified by the manufacturer and should be an Authorized Solution Partner of the manufacturer of CCTV equipment. A notarized certification to this effect must be submitted.
 - m) Supplier must be the certified partner/distributor of the Video Management System and Storage Server / Network Video Recorder (NVR) being offered for OTS. A notarized certification must be submitted
 - n) Offered Video Management Solution Including Cameras, Storage and VMS Software must be reputable and must be known internationally for the last fifteen (15) years.

VII. OTHER REQUIREMENTS:

1. Notarized Certificate of Dealership or Authority to Sell Directly issued by the Manufacturer to the bidder.
2. The contractor must submit a certificate of spare parts availability from the original equipment manufacturer of the surveillance system for the next five (5) years from the date of completion.
3. The bidder must provide the following Work Plan in separate narratives including but not limited to:
 - a) Work Methodology Plan;
 - b) Safety and Security Plan;
 - c) Storage Plan;
 - d) Communications Plan; and
 - e) Must provide as-built plan.

VIII. TERMS OF PAYMENT

Advance Payment – No advance payment shall be allowed under this contract;

On Delivery – Sixty-five percent (65%) of the Contract Price shall be paid to the Supplier within sixty (60) calendar days after the date of receipt of the Goods and upon submission of the relevant documents in accordance with the prevailing accounting and auditing rules and regulations;

On Installation and Commissioning – Fifteen percent (15%) of the Contract Price shall be paid to the Supplier within sixty (60) calendar days after the date of installation of the Goods and upon submission of relevant documents in accordance with the prevailing accounting and auditing rules and regulations including corresponding service/testing report or equivalent;

On Acceptance – The remaining twenty percent (20%) of the Contract Price shall be paid to the Supplier within sixty (60) calendar days after the submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative and upon submission of the relevant documents in accordance with the prevailing accounting and auditing rules and regulations.

IX. WARRANTY AND GUARANTEE REQUIREMENTS

- a. Coverage must be two (2) years for the equipment and services that will be indicated in the Service Level Agreement (SLA). This must include a quarterly preventive maintenance service for the duration of warranty period;
- b. Bidder must include technical support with a twenty-four (24) hour response time upon receipt of call, for troubleshooting purposes.
- c. Bidder must provide service unit for defective equipment
- d. Bidder must provide on-site support at no charge should an issue not to be remotely resolvable during the warranty period;
- e. Bidder must issue a warranty certificate deemed to commence after the date of issuance of Certificate of Completion and Acceptance, per site.

IX. LIQUIDATED DAMAGES -

Subject to GCC Clauses 18 and 22, if the Supplier fails to satisfactorily deliver any or all of the Goods and/or to perform the Services within the period(s) specified in this Contract inclusive of duly granted time extensions if any, the Procuring Entity must, without prejudice to its other remedies under this Contract and under the applicable law, deduct from the Contract Price, as liquidated damages, the applicable rate of one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance. The maximum deduction must be ten percent (10%) of the amount of contract. Once the maximum is reached, the Procuring Entity may rescind or terminate the Contract pursuant to GCC Clause 23, without prejudice to other courses of action and remedies open to it.

I

X. TRAINING & DOCUMENTATION

- The Supplier must undertake to provide the following items as part of its deliverables:
 - A. Operating Instructions that contains any of the following information; a) The purpose of the unit, b) A description of controls, c) A listing of operating features, d) A description of the capabilities and principles, e) A block diagram showing the major internal functional components.
 - B. Operator Training Instructions and USB - A training package must be supplied that will provide operators with the information necessary to acquire the technical and operational skills required to conduct effective operation with the system. The training package must include operator's manual.
 - C. Technical Manual in English - A technical manual must be provided which contains all of the information that could be required by a technician to install, troubleshoot, maintain, and repair the equipment to the component level.
 - D. Certification of Test, Inspection and Conformance - The supplier must provide a certification of all mandatory tests, test procedures, testing laboratories, compliance to required standards, a record of the test results for the unit, as applicable.
 - E. Preventive Maintenance Schedule – a) Supplier must provide a quarterly preventive maintenance for each system, b) Must have an established/existing in-country Maintenance and After Sales Service representative with qualified service technician certified and factory-trained by the Manufacturer.
- Bidder must provide technical and user training to the assigned OTS personnel per site;
- Must provide training materials;
- Must provide manuals and technical documents of the entire system such as data sheets, systems manuals, configuration documentation, and equipment inventory in two (2) hard copies and soft copies in PDF format as appropriate;
- Must provide technical drawings and/or brochures of the brand and model being offered;
- Submission of project S-Curve

- C. Technical Manual in English - A technical manual must be provided which contains all of the information that could be required by a technician to install, troubleshoot, maintain, and repair the equipment to the component level.
- D. Certification of Test, Inspection and Conformance - The supplier must provide a certification of all mandatory tests, test procedures, testing laboratories, compliance to required standards, a record of the test results for the unit, as applicable.
- E. Preventive Maintenance Schedule –a) Supplier must provide a quarterly preventive maintenance for each system, b) Must have an established/existing in-country Maintenance and After Sales Service representative with qualified service technician certified and factory-trained by the Manufacturer.

- Bidder must provide technical and user training to the assigned OTS personnel per site;
- Must provide training materials;
- Must provide manuals and technical documents of the entire system such as data sheets, systems manuals, configuration documentation, and equipment inventory in two (2) hard copies and soft copies in PDF format as appropriate;
- Must provide technical drawings and/or brochures of the brand and model being offered;

***Section VIII. Checklist of Technical and
Financial Documents***

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- (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).

Technical Documents

- (e) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (f) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents;
and
- (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; **and**
- (h) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- (i) Original duly signed Omnibus Sworn Statement (OSS);
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.

Financial Documents

- (j) 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 bid submission; **and**

- (k) 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

- (l) If applicable, a duly signed joint venture agreement (JVA) 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.

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

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

II. FINANCIAL COMPONENT ENVELOPE

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

Bid Form

Date: _____
 Invitation to Bid No: PB No. 21-132-9

*To: PS-DBM BAC VII Chairperson
 Procurement Service
 PS Complex, RR Road
 Cristobal St., Paco, Manila*

Gentlemen and/or Ladies:

Having examined the Bidding Documents including Bid Bulletin Numbers [____], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to **Supply, Delivery, Installation, Testing and Commissioning of Integrated Equipment and Connectivity-Artificial Intelligence Surveillance with Video Analytics** for the Office for Transportation Security (OTS)

Lot	Qty/Unit	Items/Description	Unit Price	Total Price
1	1 Lot	Integrated Equipment and Connectivity-Artificial Intelligence Surveillance with Video Analytics		
BREAKDOWN OF SITES				
Item No.	Quantity	Items/Description	Unit Price	Total Price
OTS COMMAND CENTER				

1	12Months	(Dedicated) Leased Line Subscription for OTS Command Center, T1, T2,T3,T4 and Davao Int'l Airport		
2	2Units	Enterprise Network Video Management Server		
3	1Unit	Archiving Server 450TB (for succeeding 30 days recording)		
4	2Units	Data Cabinet, 6 ft 42U		
5	2Units	PDU with TVSS		
6	1Unit	50KVA Online UPS Tower Cabinet		
7	40 Units	Large Format DisplayMonitor, 55in LED		
8	1 Unit	Video Processor Unit to handle 24 up to 40 VideoWall Panels Display		
9	1 unit	Management software for collaborative VideoWall display		
10	3 Units	24-Port POE Switch, for VideoWall		
11	3 units	24-Port POE Switch, for workstation & VOIP		
12	1 Unit	Core switch L3 1.92Tbps		
13	1 Set	NMS Firewall, UTM, Load Balancer		
14	10 units	High-end Workstation with 4-display output, 3-display monitor		
15	1 unit	VOIP Server Enterprise		
16	1 unit	IP-PBX Control Panel		

17	16 Units	IP Phone Handset		
18	1 Unit	Conferencing Phone with Camera for Situation Room		
19	1 unit	License UC 250 Devices		
20	2 Units	Facial Recognition License		
21	1 lot	Labor / Engineering (including Local Materials, General Requirements, Preliminaries, Temporary Facility, Bonds, Insurances, Licenses, Permits, As-built Plans, Turn-over documents, Trainings/Training Certifications, etc.)		
NAIA TERMINAL 1				
1	12 Months	(Dedicated) Leased Line Subscription		
2	1 unit	Enterprise Network Video Management Server/NVR w/ license		
3	22 Units	CCTV Camera, dome		
4	22 Units	Camera bracket		
5	22 Units	CCTV Camera, fisheye		
6	22 Units	Camera bracket		
7	44 Units	Camera Connection License		
8	11 Units	Facial Recognition License		

9	2 Units	Workstation for live viewing		
10	2 units	LED Monitor		
11	4 Units	IP Phone		
12	2 units	Data Rack, 2.5ft with TVSS and 30A breaker		
13	1 Lot	UTM, Load balancer, Firewall		
14	4 Units	24-Port POE Switch		
15	2 Units	UPS, 1.5KVA		
16	1 Lot	Labor / Engineering (including Local Materials, General Requirements, etc.)		
NAIA TERMINAL 2				
1	12 Months	(Dedicated) Leased Line Subscription		
2	1 Unit	Enterprise Network Video Management Server/NVR w/ license		
3	26 Units	CCTV Camera, dome		
4	26 Units	Camera bracket		
5	26 Units	CCTV Camera, fisheye		
6	26 Units	Camera bracket		
7	52 Units	Camera Connection License		

8	13 Units	Facial Recognition License		
9	2 Units	Workstation for live viewing		
10	2 Units	LED Monitor		
11	4 Units	IP Phone		
12	5 Units	Data Rack, 2.5ft with TVSS and 30A breaker		
13	1 Lot	UTM, Load balancer, Firewall		
14	5 Units	24-Port POE Switch		
15	2 Units	UPS, 1.5KVA		
16	1 Lot	Labor / Engineering (including Local Materials, General Requirements, etc.)		
NAIA TERMINAL 3				
1	12 Months	(Dedicated) Leased Line Subscription		
2	1 Unit	Enterprise Network Video Management Server/NVR w/ license		
3	32 Units	CCTV Camera, dome		
4	32 Units	Camera bracket		
5	32 Units	CCTV Camera, fisheye		
6	32 Units	Camera bracket		

7	64 Units	Camera Connection License		
8	16 Units	Facial Recognition License		
9	2 Units	Workstation for live viewing		
10	2 Units	LED Monitor		
11	4 Units	IP Phone		
12	5 Units	Data Rack, 2.5ft with TVSS and 30A breaker		
13	1 Lot	UTM, Load balancer, Firewall		
14	9 Units	24-Port POE Switch		
15	1 unit	UPS, 1.5KVA		
16	1 Lot	Labor / Engineering (including Local Materials, General Requirements, etc.)		
NAIA TERMINAL 4				
1	12 Months	(Dedicated) Leased Line Subscription		
2	1 Unit	Enterprise Network Video Management Server/NVR w/ license		
3	8 Units	CCTV Camera, dome		
4	8 Units	Camera bracket		
5	8 Units	CCTV Camera, fisheye		

6	8 Units	Camera bracket		
7	16 Units	Camera Connection License		
8	4 Units	Facial Recognition License		
9	1 Unit	Workstation for live viewing		
10	1 Unit	LED Monitor		
11	2 Units	IP Phone		
12	1 Unit	Data Rack, 2.5ft with TVSS and 30A breaker		
13	1 Lot	UTM, Load balancer, Firewall		
14	1 Unit	24-Port POE Switch		
15	1 Unit	UPS, 1.5KVA		
16	1 Lot	Labor / Engineering (including Local Materials, General Requirements, etc.)		
DAVAO INTERNATIONAL AIRPORT				
1	12 Months	(Dedicated) Leased Line Subscription		
2	1 Unit	Enterprise Network Video Management Server/NVR w/ license		
3	12 Units	CCTV Camera, dome		
4	12 Units	Camera bracket		

5	12 Units	CCTV Camera, fisheye		
6	12 Units	Camera bracket		
7	24 Units	Camera Connection License		
8	6 Units	Facial Recognition License		
9	1 Unit	Workstation for live viewing		
10	1 Unit	LED Monitor		
11	2 Units	IP Phone		
12	3 Units	Data Rack, 2.5ft with TVSS and 30A breaker		
13	1 Lot	UTM, Load balancer, Firewall		
14	1 Unit	24-Port POE Switch		
15	1 Unit	UPS, 1.5KVA		
16	1 Lot	Labor / Engineering (including Local Materials, General Requirements, etc.)		
TOTAL BID				

TOTAL LOT BID PRICE IN WORDS: _____

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Section VI. Schedule of Requirements.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Section VI. Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in [BDS](#) provision for **ITB** Clause 14.2 and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

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 as per **ITB** Clause 5 of the Bidding Documents.

I/We likewise certify/confirm that the undersigned, *[for sole proprietorships, insert]:* as the owner and sole proprietor or authorized representative of *[Name of Bidder]*, has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the *[Name/Title of the Project.]*

Or;

I/We likewise certify/confirm that the undersigned, *[for partnerships, corporations, cooperatives, or joint ventures, insert]:* is granted full power and authority by the *[Name of Bidder]*, to participate, submit the bid and to sign and execute the ensuing contract on the latter's behalf for *[Name/Title of the Project.]*

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.

Dated this _____ day of _____ 20_____.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

Schedule of Prices for Goods Offered From Abroad

Name of Bidder: _____ PB No. **21-132-9** 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)

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

Schedule of Prices For Goods Offered From Within the Philippines

Name of Bidder: _____

PB No. **21-132-9**

Page ____ of ____

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and Insurance 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)

--	--	--	--	--	--	--	--	--	--

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
 CITY/MUNICIPALITY 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], as shown in the attached duly notarized Special Power of Attorney;

[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], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, 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, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

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;
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing 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;
11. [Name of Bidder] hereby assigns the following contact number/s and e-mail address/es as the official telephone/fax number and contact reference of the company where the PS BAC and PS notices may be transmitted.

Telephone No/s.: _____
Fax No/s.: _____
E-mail Add/s.: _____
Mobile No.: _____

It is understood that notices/s transmitted in any of the above-stated telephone/fax numbers and/or e-mail address/es are deemed received as of its transmittal and the reckoning period for the reglementary periods stated in the bidding documents and the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall commence from receipt thereof.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s known to me, and known to be the same person/s in the exhibited [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

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

NAME OF NOTARY PUBLIC
Serial No. of Commission _____
Notary Public for _____ unitil _____
Roll of Attorney's No. _____
PTR No. _____ [date issued], [place issued]
IBP No. _____ [date issued], [place issued]

Doc. No. _____
Page No. _____
Book No. _____
Series of _____.

**The identification card shall be at least one of those acceptable proofs of identity as identified under the provisions of the 2004 Rules on Notarial Practice.*

“Sec. 12. Competent Evidence of Identity – The phrase “competent evidence of identity” refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver’s license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter’s ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman’s book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification;

The Board Resolution or Secretary’s Certificate referring to the said Board Resolution designating the bidder’s authorized representative and signatory need not specifically indicate the particular project where such authority is given provided that the said authority covers activities by PS.

Instructions:

**STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE
BID**

This is to certify that _____ (company) _____ has the following completed contracts for the last **Ten (10) years.**

Date of the Contract	Contracting Party	Name of Contract	Kind of Goods Sold	Amount of Contract	Date of Delivery/ End-user's Acceptance	Date of Official Receipt	Bidder is A. Manufacturer B. Supplier C. Distributor

Name and Signature of
Authorized Representative

Date

a) Cut-off date as of:

Statement of: (i) Ongoing Contracts and; (ii) Awarded But Not Yet Started Contracts

- (i) **Up to the day before the deadline of** submission of bids.
- b) **In the column under “Dates”, indicate the dates of Delivery/ End-user’s Acceptance and Official Receipt.**
- c) **“Name of Contract”. Indicate here the Nature/ Scope of the Contract for the Procuring Entity to determine the relevance of the entry with the Procurement at hand. Example: “Supply and Delivery of *Paper Products*”**

This is to certify that _____ (company) _____ has the following ongoing and awarded but not yet started contracts:

Date of the Contract	Contracting Party	Name of Contract	Kind of Goods Sold	Amount of Contract	Value of Outstanding Contracts	Bidder is A) Manufacturer B) Supplier C) Distributor

Name and Signature of
Authorized Representative

Date

Instructions:

- a) State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project called for bidding) as of:
 - i. **The day before the deadline of** submission of bids.
- b) If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.
- c) The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC) in case an NFCC is submitted as an eligibility document. **“Name of Contract”**. **Indicate here the Nature/ Scope of the Contract for easier tracking of the entries/ representations.** Example: *“Supply and Delivery of Paper Products”*

JOINT VENTURE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This **JOINT VENTURE AGREEMENT** (hereinafter referred to as the “Agreement”), entered into this _____ day of _____ 20__ at _____ City, Philippines by and among:

_____. a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at _____, represented by its _____, _____, hereinafter referred to as “_____”;

- and -

_____. a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at _____, represented by its _____, _____, hereinafter referred to as “_____”;

- and -

_____ a foreign corporation organized and existing under and by virtue of the laws of _____, represented by its _____, _____, hereinafter referred to as “_____”;

(Henceforth collectively referred to as the “**Parties**”)

WITNESSETH: That

WHEREAS, the Procurement Service (PS) has recently published an Invitation to Apply for Eligibility and to Bid for the Supply and Delivery of _____ for the _____ ;

WHEREAS, the parties have agreed to pool their resources together to form the “_____ Joint Venture”, hereinafter referred to as the Joint Venture, under the laws of the Philippines, for the purpose of participating in the abovementioned procurement of PS-DBM;

NOW, THEREFORE, for and in consideration of the foregoing premises and the covenants hereto set forth, the Parties have agreed as follows:

ARTICLE I ORGANIZATION OF THE JOINT VENTURE

SECTION 1. Formation – The Parties do hereby agree and bind themselves to establish, form and organize a Joint Venture pursuant to the laws of the Republic of the Philippines, in order for the JV to carry on the purposes and objectives for which it is created;

SECTION 2. Name – The name and style under which the JV shall be conducted is “_____”;

SECTION 3. Principal Place of Business – The JV shall maintain its principal place of business at _____ ;

SECTION 4. Preparation and Documentation – The Parties shall secure and/or execute such certifications, documents, deeds and instruments as may be required by the laws of the Republic of the Philippines for the realization of the JV and in compliance with the Project. Further, they shall do all other acts and things requisite for the continuation of the JV pursuant to applicable laws;

SECTION 5. The Joint Venture shall be represented by the _____ in all biddings, related procurement transactions and other official dealings that it shall enter into with the PS-DBM and third parties, such transactions to include, among others, the submission of eligibility documents, bids, registration documents obtaining bonds, performing the principal contract in the event that the contract is awarded in favor of the Joint Venture, receipt of payment for goods delivered, and similar and related activities.

SECTION 6. The period of the Joint Venture shall begin upon execution of this Agreement and shall continue until the complete performance of its contractual obligations to PS-DBM, as described in Article II hereof, or upon its termination for material breach of any term or condition of this Agreement, by service of a written statement in English on the other Party, not less than 90 days prior to the intended date termination

ARTICLE II PURPOSE

SECTION 1. The primary purpose of the Joint Venture is to participate in the public bidding to be conducted by the DBM-PS Bids and Awards Committee for the supply and delivery of _____ for the _____ .

SECTION 2. If the above-described contract/s is/are awarded to the Joint Venture, the Joint Venture shall undertake the performance thereof to PS-DBM, and such other incidental activities necessary for the completion of its contractual obligations.

**ARTICLE III
SOLIDARY LIABILITY OF THE PARTIES**

SECTION 1. In the performance of the contract/s that may be awarded to the Joint Venture by the PS-DBM, and all other related activities/obligations, as described in Article II hereof, the Parties bind themselves jointly and solidarily, in the concept of solidarily debtors, subject to the right of reimbursement, as provided in the relevant provisions of the Civil Code of the Philippines.

**ARTICLE IV
CONTRIBUTION AND OTHER ARRANGEMENTS**

SECTION 1. Contribution – The Parties shall contribute the amount of _____ (Php) to support the financial requirements of the Joint Venture, in the following proportion:

A.	-	P	.00
B.	-	<u>P</u>	<u>.00</u>
TOTAL		P	.00

Additional contributions to the Joint Venture shall be made as may be required for contract implementation. In addition, ____ shall contribute any labor and contract management requirements.

SECTION 2. Profit Sharing – The share of the Parties to the JV from any profit derived or obtained from the implementation and execution of the Project shall be distributed pro rata to each, in accordance with the contribution and resources each has provided to the JV;

SECTION 3. Liquidation and Distributions – Any sum remaining after deducting from the total of all moneys or benefits received for the performance of the contract, all costs incurred by the JV after award of the contract for the Project pursuant to the accounting practices established for the JV, shall be distributed in accordance with the relative balances in the accounts of each Party pursuant to Sec.1 of this Article upon completion, final accounting, termination and liquidation of the JV. In the event of liquidation and termination of JV, and after taking into account the shares of the Parties in all income, gain, deductions, expenses, and losses, should the account of a Party contain a negative balance, such Party shall contribute cash to the JV sufficient to restore the said balance to zero;

SECTION 4. Sharing of Burden of a Net Loss – In case a net loss is incurred, additional contributions shall be made by the Parties in accordance with their respective shares.

ARTICLE V
MISCELLANEOUS PROVISIONS

SECTION 1. The provisions of the Instructions to Bidders, Supplemental Bid Bulletin, and other bidding documents issued by the PS-DBM in relation to the contract described in Article II hereof, shall be deemed incorporated in this Agreement and made an integral part thereof.

SECTION 2. This Agreement shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.

SECTION 3. The Parties herein are duly represented by their authorized officers.

SECTION 4. Governing Law - This Agreement shall be governed by and construed according to the laws of the Republic of the Philippines. Venue of any court action arising from this Agreement shall be exclusively laid before the proper court of the _____, Philippines.

IN WITNESS WHEREOF, the parties have set their hands and affixed their signatures on the date and place first above-stated.

Signed in the Presence of:

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.
PROVINCE OF (in the case of Municipality)

BEFORE ME, a Notary Public for and in the City/Municipality of _____(indicate also the Province in the case of Municipality_____, this _____ day of _____(month & year)_____ personally appeared the following:

Name	ID Name, Number and Validity Date
------	-----------------------------------

Known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledge to me that the same is their free and voluntary act and deed and that of the corporation(s) they represent.

This instrument refers to a Joint Venture Agreement consisting of _____ pages, including the page on which this Acknowledgement is written, and signed by the parties and their instrumental witnesses.

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

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. __, [date issued], [place issued]

IBP No. __, [date issued], [place issued]

Doc. No. ____

Page No. ____

Book No. ____

Series of ____.

Note:

The identification card shall be at least one of those acceptable proofs of identity as identified under the provisions of the 2004 Rules on Notarial Practice.

“Sec. 12. Competent Evidence of Identity – The phrase “competent evidence of identity” refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver’s license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter’s ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman’s book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National

SUPPLIER'S LETTERHEAD

Date

Chairperson
PS-DBM Bids and Awards Committee IX
Paco, Manila

Dear Sir:

This has reference to Public Bidding No. 21-132-9 for _____ (Name of Project) _____.

(Name of Company) respectfully requests for the following:

- Withdraw of Bid Submissions
- Refund of Bid Security
(Attached is a photocopy of the Procurement Service Official Receipt)
- Cancellation of Credit Line Certificate

It is understood that _____ waives its right to file any motion for reconsideration and/pr protest in connection with the above-cited Public Bidding Project.

Thank you.

Very truly yours,

Authorized Signatory for the Company

Form of Performance Security (Bank Guarantee)

To : Procurement Service
PS Complex, Cristobal St.,
Paco, Manila

WHEREAS, _____ (*Name and Address of Supplier*) (hereinafter called “the Supplier”) has undertaken, in pursuance of Notice of Award No. _____ dated _____ to execute (*Name of Contract and Brief Description*) (hereinafter called “the Contract”);

AND WHEREAS, it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS, we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE, we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of [*Amount of Guarantee*] proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of [*Amount of Guarantee*] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the date of issue of the Final Acceptance [Inspection, & Certification of Acceptance Report(I.C.A.R)].

SIGNATURE AND SEAL OF THE

GUARANTOR

NAME OF BANK

ADDRESS

DATE

BID SECURING DECLARATION FORM

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

X-----X

BID SECURING DECLARATION Invitation to Bid: *Public Bidding No. 21-132-9*

To: ***Procurement Service***
PS Complex, RR Road
Cristobal St., Paco, Manila

I/We¹, 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 the 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 the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

¹ Select one and delete the other. Adopt the same instruction for similar terms throughout the document.

[Insert NAME OF BIDDER'S AUTHORIZED
REPRESENTATIVE]
[Insert Signatory's Legal Capacity]

Affiant

SUBSCRIBED AND SWORN to before me this ___ day of [month] [year] at [place of execution], Philippines. Affiant/s known to me, and known to be the same person/s in the exhibited [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

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

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorney's No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____.

**The identification card shall be at least one of those acceptable proofs of identity as identified under the provisions of the 2004 Rules on Notarial Practice.*

“Sec. 12. Competent Evidence of Identity – The phrase “competent evidence of identity” refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification

Performance Securing Declaration (Revised)

[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]

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

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents]

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacture/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - i. Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]

[Insert Signatory's Legal Capacity]

Affiant

SUBSCRIBED AND SWORN to before me this ___ day of [month] [year] at [place of execution], Philippines. Affiant/s known to me, and known to be the same person/s in the exhibited [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

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

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorney's No. _____

PTR No. _____ [date issued], [place issued]

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Contract Agreement Form for the Procurement of Goods (Revised)

[Not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT made the ____ day of _____ 20____ between [name of PROCURING ENTITY] of the Philippines (hereinafter called “the Entity”) of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “the Supplier”) of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures in specified currency]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, *viz.*:
 - i. Philippine Bidding Documents (PBDs);
 - i. Schedule of Requirements;
 - ii. Technical Specifications;
 - iii. General and Special Conditions of Contract; and
 - iv. Supplemental or Bid Bulletins, if any
 - ii. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder’s response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity’s bid evaluation;
- iii. Performance Security;
- iv. Notice of Award of Contract; and the Bidder’s conforme thereto; and
- v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**

3. In consideration for the sum of *[totalcontract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

[Insert Name and Signature]

[Insert Name and Signature]

[Insert Signatory's Legal Capacity]

[Insert Signatory's Legal Capacity]

for:

for:

[Insert Name of Supplier]

[Insert Procuring Entity]

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
 CITY/MUNICIPALITY OF _____) S.S.
 PROVINCE OF (in the case of Municipality)

BEFORE ME, a Notary Public for and in the City/Municipality of _____ (indicate also the Province in the case of Municipality), this _____ day of _____ (month & year) personally appeared the following:

Name

ID Name, Number and Validity Date

Known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledge to me that the same is their free and voluntary act and deed and that of the corporation(s) they represent.

This instrument refers to a Joint Venture Agreement consisting of _____ pages, including the page on which this Acknowledgement is written, and signed by the parties and their instrumental witnesses.

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

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. __, [date issued], [place issued]

IBP No. __, [date issued], [place issued]

Doc. No. ____

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