BAGONG PILIPINAS

PHILIPPINE PORTS AUTHORITY

SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF BAGGAGE X-RAY MACHINES AND WALK-THROUGH METAL DETECTORS FOR PORT MANAGEMENT OFFICES (PHASE V)

BID DOCS
ASD-006-2025

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

CDA - Cooperative Development Authority.

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

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means "delivered duty paid."

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – "Free Carrier" shipping point.

FOB – "Free on Board" shipping point.

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

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

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

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

BAGONG PILIPINAS

PHILIPPINE PORTS AUTHORITY

INVITATION TO BID

FOR THE SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF BAGGAGE X-RAY MACHINES AND WALK-THROUGH METAL DETECTORS FOR PORT MANAGEMENT OFFICES (PHASE V)

The Philippine Ports Authority, through the Corporate Budget of the Authority for CY 2025, intends to apply the sum of **P150,000,000.00** being the Approved Budget for the Contract (ABC) to payments under the contract for the Supply, Delivery, Installation, Testing and Commissioning of Baggage X-Ray Machines and Walk-Through Metal Detectors for Port Management Offices (Phase V) (ASD-006-2025). Bids received in excess of the ABC shall be automatically rejected at bid opening.

The Philippine Ports Authority now invites bids for the above Procurement Project. Completion of the project is required within One Hundred Eighty (180) calendar days from the receipt of the winning bidder of the Notice to Proceed. Bidders should have completed, within five (5) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184. Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

Prospective Bidders may obtain further information from the Philippine Ports Authority Bids and Awards Committee (BAC) and inspect the Bidding Documents at the address given below during 8:00 a.m. to 5:00 p.m., Monday to Friday.

A complete set of Bidding Documents may be acquired by interested Bidders on **28 November 2025** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Fifty Thousand (P50,000.00) Pesos.** The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.

The Philippine Ports Authority's Bids and Awards Committee will hold a Pre-Bid Conference on **09 December 2025 at 10:00 a.m.** at the PPA Function Room, 7th Floor, PPA Bldg., Bonifacio Drive, South Harbor, Port Area, Manila, which shall be open to all prospective bidders.

Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **22 December 2025 at 1:00 p.m.** Late bids shall not be accepted.

All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.

Bid opening shall be on **22 December 2025 at 2:00 p.m.** at the 7th Floor, PPA Building, A. Bonifacio Drive, South Harbor, Port Area, Manila. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

The Philippine Ports Authority reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

BAC Secretariat, Philippine Ports Authority
5th Floor, PPA Bldg., A. Bonifacio Drive,
South Harbor, Port Area, Manila
Telephone Nos. 527-47-35
527-83-56 to 83 loc. 539
PPA Website: www.ppa.com.ph
GPPB Website: www.gppb.com.ph

MARK JON S. PALOMAR
Chairperson, PPA Head Office Bids and Awards
Committee for the Procurement of Goods and
Consultancy Services (HO-BAC-PGCS)

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, PHILIPPINE PORTS AUTHORITY wishes to receive Bids for the **Supply, Delivery, Installation, Testing and Commissioning of Baggage X-Ray Machines and Walk-Through Metal Detectors for Port Management Offices** with identification number **ASD-006-2025.**

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

2. Funding Information

2.1. The Philippine Ports Authority through its corporate budget for the Calendar Year (CY) 2025 in the amount of **ONE HUDRED FIFTY MILLION PESOS (Php150,000,000.00).**

2.2. The source of funding is the Corporate Budget of the PHILIPPINE PORTS AUTHORITY.

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2 Foreign ownership limited to those allowed under the rules may participate in this Project.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to 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.

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 at the PPA Function Room, 7th Floor, PPA Building, Bonifacio Drive, South Harbor, Port Area, Manila and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **IB.**

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within 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.

ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications).**

13. Bid and Payment Currencies

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

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

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration 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 for One Hundred Twenty (120) calendar days from the date of 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 the Bid.

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

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

16. Deadline for Submission of Bids

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

17. Opening and Preliminary Examination of Bids

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

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

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

18. Domestic Preference

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.

19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

19.4. The Project shall be awarded as one Project having several items that shall be awarded as one contract.

19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the 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**.

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be: a. Supply, Delivery, Installation, Testing and Commissioning of Baggage X-ray Machines and Walk-Through Metal Detectors. b. completed within five (5) years prior to the deadline for the submission and receipt of bids.
7.1	Subcontracting is not allowed.
12	The price of the Goods shall be quoted DDP *[Manila]* or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: a. The amount of not less than Three Million Pesos (PhP3,000,000.00), if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than Seven Million Five Hundred Thousand Pesos (PhP7,500,000.00) if bid security is in Surety Bond.
15	Each Bidder shall submit **ONE (1) original and SIX (6) copies** of its Technical and Financial Components of its Bid in two (2) separate sealed bid envelopes, which should be submitted simultaneously. Each of the bid documents should be individually sealed. All bid documents shall be book-bound (stitched) with hard cover and properly labelled with index tabs. Failure to comply with the said requirements is a ground for automatic disqualification of the bidder.
19.3	Partial bid is not allowed. The goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20.1	No additional requirements.
21.1	No additional requirements.

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 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	**Delivery and Documents –** For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows: *[For Goods supplied from abroad, state:]* "The delivery terms applicable to the Contract are DDP delivered [*indicate place of destination*]. In accordance with INCOTERMS." *For Goods supplied from within the Philippines, state:*] "The delivery terms applicable to this Contract are delivered *[indicate place of destination]*. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination." Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements). For purposes of this Clause the Procuring Entity's Representative at the Project Site is the Manager, Port Police Department, **Philippine Ports Authority Head Office, Bonifacio Drive, South Harbor, Port Area, Manila and at the following ports:** Deployment of Baggage X-ray Machines and Walk-Through Metal Detectors:

LOCATION	SIZE
1. TMO Benoni	Big
2. Port of Balanacan PTB	Big
3. Port of Lucena PTB	Big
4. Port of Matnog PTB	Big
5. Port of Surigao (Baseport-PTB)	Big
6. Port of Mindoro PTB	Big
7. Port of Palawan PTB	Big
8. TMO Tubigon	Big
9. Port of Tagbilaran PTB	Big
10. TMO Jagna PTB	Big
11. Port of Misamis Oriental CDO	Big
12. Port of Iligan PTB	Big
13. Port of Legaspi	Big

14. Port of Bacolod	Big
15. Port of San Pedro	Big
16. Port of Bulan	Small
17. Port of Jubang	Small

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; and
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.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

Spare Parts –

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and

b. in the event of termination of production of the spare parts:

   i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
   ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI (Schedule of Requirements)** and the cost thereof are included in the contract price.

	The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of ten (10) years from delivery and acceptance of the equipment by the PPA. Spare parts or components shall be supplied as promptly as possible, but in any case, within two (2) 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 Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging. **Transportation –** Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price. Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site,

	transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price. Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure. The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination. **Intellectual Property Rights –** The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
2.2	The terms of payment shall be as follows: a) 65% of contract cost – After inspection and acceptance by Head Office. b) 35% of contract cost – After installation, commissioning, inspection and acceptance by PMOs. *Training Certificate must be presented before request of billing.
4	Visual and Functional Test will be done during Testing and Commissioning At the deployment sites.

Section VI. Schedule of Requirements

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

Item Number	Description[1]	Quantity	Total	Delivered, Weeks/Months
	Supply, Delivery, Installation, Testing and Commissioning of Baggage X-Ray Machines and Walk-Through Metal Detectors			The Project must be completed within one hundred eighty (180) calendar days, from the receipt of Notice to proceed
1	Baggage X-ray Machines:			
	- 100x100 dual view Accessories (Monitors, UPS, input/output rollers, operator's table, etc.)	15 units		
	- 60x40 dual view Accessories (Monitors, UPS, input/output rollers, operator's table, etc.)	2 units		
2	Walk-Through Metal Detector WTMD standard accessories	17 units		

[1] Subject to the Deployment and Technical Specifications under Items I to III, respectively of the Terms of Reference.

Section VII. Technical Specifications

Technical Specifications

Item	Specification	Statement of Compliance
		[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A

		statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]
	Supply, Delivery, Installation, Testing and Commissioning of Baggage X-Ray Machines and Walk-Through Metal Detectors for Port Management Offices	

PROJECT SCOPE

One (1) lot comprises the following:

- Fifteen (15) Baggage X-ray Machines 100x100 dual view and its accessories
- Two (2) Baggage X-ray Machines 60x40 dual view and its accessories
- Seventeen (17) Walk-Through Metal Detectors
- Seventeen (17) Uninterruptable Power Supply (UPS)
- Seventeen (17) Constant Voltage Transformer (CVT)

Deployment of Baggage X-ray Machines and Walk-Through Metal Detectors:

LOCATION	SIZE
1. TMO Benoni	Big
2. Port of Balanacan PTB	Big
3. Port of Lucena PTB	Big
4. Port of Matnog PTB	Big
5. Port of Surigao (Baseport-PTB)	Big
6. Port of Mindoro PTB	Big
7. Port of Palawan PTB	Big
8. TMO Tubigon	Big
9. Port of Tagbilaran PTB	Big
10. TMO Jagna PTB	Big
11. Port of Misamis Oriental CDO	Big
12. Port of Iligan PTB	Big
13. Port of Legaspi	Big
14. Port of Bacolod	Big
15. Port of San Pedro	Big
16. Port of Bulan	Small
17. Port of Jubang	Small

TECHNICAL SPECIFICATIONS

A. BAGGAGE X-RAY MACHINE GENERAL REQUIREMENTS

1	All units shall be brand new. Each set of baggage X-ray machine shall include: • In/Out roller, exit rollers

			• Operator's Desk • Two (2) Colored 19" TFT/LCD/LED Monitors • Control Keyboard • Constant Voltage Transformer (CVT) • Uninterruptible Power Supply (UPS)		
		2	The equipment shall have dual-view technology with dual-energy functions for material discrimination. It should effectively eliminate the uncertainty caused by overlapping objects, even without repositioning.		
		3	Must have low x-ray leakage dose rate and guarantee the safety of the environment as well as the operators and passengers.		
		4	Must have the ability to archive images on internal hard drive. Hard drive capacity must be at least 1Terrabyte.		
		5	The system must be able to provide a function that automatically detects organic substances highlighting a region of the system that may display organic substances through color distinction.		
		6	The system must be capable of identifying dense areas and apply the high penetration feature only to the dense areas of the bag.		
		7	The system should be capable of categorizing materials as (a) organic/non-organic, (b) metals, (c) explosives, (d) others – as may be programmed, through 3-color imaging (material classification) only and black color for high dense materials.		
		8	Threat Image Protection (TIP): The system shall be capable of automatic projection of threat images to enhance the alertness of the system operators.		
		9	Does not require warm-up.		
		10	Must be included in the Transportation Security Administration (TSA) Qualified List and has undergone a formal TSA-sponsored test process and is deemed qualified for screening operations and/or its European equivalent standard. The TSA Qualified list should be submitted during post-qualification.		
			X-RAY SAFETY REQUIREMENTS		
		11	Lead shielded construction to limit the leakage of the x-ray radiation to not more than 2μSv/h (0.2 mR/h) at a distance of 5 cm.		

12	Lead curtains at baggage entry and exit ends of the tunnel.
13	Lights at each end of the tunnel and an x-ray generator LED on the control panel.
14	An emergency Stop Button to turn off power of the x-ray generator
15	Circuit breakers for every electrical abnormality.
	REVIEW FUNCTION
16	The system shall be capable of reviewing up to a minimum of 40 previously scanned objects.
	IMAGE ENHANCEMENT FUNCTION
17	Facilitate the identification of objects obscured by highly absorbing materials. With automated procedure for the recognition of areas with high x-ray absorbing material by any form of visual alarm.
18	Color imaging functions of the x-ray machines must be limited to three (3) colors representing material classification and black color for high density material.
19	Must have an image management function, capable of adding, deleting, copying and printing at least 100,000 x-ray images of scanned baggage's or files.
20	Must have an interconnectivity capability of transmitting x-ray image to an external computer via network.
21	The system shall be capable for Network Management System (NMS) or any equivalent for remote viewing and remote monitoring.
22	The equipment must be equipped with a Constant Voltage Transformer (CVT) with built-in power surge protection and Uninterruptible Power Supply (UPS) that run the system for minimum of thirty (30) minutes backup power.
23	Must be equipped with Artificial Intelligence (AI) software algorithms that automatically identify prohibited items.

B. BAGGAGE X-RAY MACHINE TECHNICAL SPECIFICATIONS

BIG BAGGAGE X-RAY MACHINE 100 x 100 DUAL VIEW AND ITS ACCESSORIES

PHYSICAL REQUIREMENTS	
	Tunnel Size not to exceed:

		1.1	- Width 1010 mm	
		1.2	- Height 1010 mm	
			Minimum System Dimensions:	
		2.1	- Width 1500 mm.	
		2.2	- Length 3500 mm.	
		2.3	- Height 1700 mm	
		2.4	Maximum System Weight: 1,100 kg	
		3	Conveyor Height not to exceed: 700 mm from the ground.	
		4	Conveyor Load: Conveyor must support a minimum load of 200 kgs. evenly distributed;	
		5	Conveyor Speed: Minimum of 0.2 meters per second at 60 Hz frequency;	
		6	Conveyor Direction: Bi-Directional conveyor;	
		7	Conveyor Motor: Sealed drum, maintenance free	
		8	Conveyor Type: Belt	
		9	Emergency Stop Buttons mounted at the entry and exit points of the tunnel	
		10	Entry Roller: 1 meter	
		11	Exit Roller: 2.0 meters with stopper	
		12	The system shall be mounted on heavy-duty castors for ease of movement.	
		13	It shall be fixed in place by means of adjustable screw jack leveling feet.	
		X-RAY GENERATORS		
		14	Beam Direction: Upward and Sideward (Dual View)	
		15	Anode voltage minimum: 160 kV cp (operated)	
		16	Cooling/housing – Hermetically sealed oil bath/single tank for each generator.	
		17	Anode current: not more than 1mA.	
		DETECTION SYSTEM		
		18	Multi Energy (2 detector arrays; high and low energy)	
		19	No. of photo diodes (x-ray detectors) dual view: - Minimum of 2300 photo diodes for View 1. - Minimum of 2300 photo diodes for View 2.	
		OPERATION, PENETRATION, & SENSITVITY		
		20	Minimum Penetration (Manufacturer's Test Piece (MTP): 35 mm steel (View 1 and view 2)	
		MINIMUM RESOLUTION (Wire recognition)		
		21	38 AWG wire	

		DUTY CYCLE		
		22	100%, no warm-up procedure required	
		VIDEO DISPLAY		
		Must be capable of real time image scrolling:		
		23.1	*(As the bag passes through the x-ray beam, the bag image is constructed on the monitor and appears scrolling visually in the same direction as the conveyor movement. No delay of scanned image in the monitor.)*	
		23.2	Minimum Display Technology: TFT/LCD/LED Monitors	
		23.3	Minimum Monitor Size: 19-inch TFT/LCD/LED Monitors	
		COMPUTER SPECIFICATIONS		
		System controller with built-in media bay to house various data storage modules:		
		24.1	The main hard drive should have a minimum of 1TB.	
		24.2	USB port 2.0/3.0 for downloading scanned images.	
		24.3	Open Source Operating Systems – It is understood that open source operation systems are released under a license where the copyright holder allows others to study, change as well as distribute the software to other people. Updates must be free for the next five (5) years from acceptance.	
		CONSTANT VOLTAGE TRANSFORMER (CVT)		
		25	Minimum of 5KVA with surge protection - Input voltage range: 115 - 275 VAC - Output Voltage: 220 VAC +/- 2%	
		UNINTERRUPTIBLE POWER SUPPLY (UPS)		
		26.1	Minimum of 5kVA, Input voltage: 220 VAC, - Input Range: 165-275 VAC - Output Voltage: 220VAC +/- 2% - Back-up time: min. 30 mins on actual **operational** load of x-ray and walkthrough being offered. - Standby time: min. 60 mins on actual **standby mode** load of x-ray and walkthrough being offered.	
		OPERATOR IMAGE ANALYSIS		

			Must have automatic threat and contraband detection of explosives and drugs (operator assist software or equivalent):		
		27.1	*(Capability to directly indicate and recognize, in real time, potential explosives and drugs. This is threat identification operator alert software package that automatically screens for potential explosives and other threats by utilizing advanced material classification and atomic density analysis by drawing marking around the area of suspicion. If multiple threats are perceived in a single image, the system will draw multiple markings in the suspect areas. The Operator assist software is designed to assist vigilant operators in locating and identifying threats.)*		
		27.2	Must have automatic dense area detection capability to automatically identify dense area and apply high penetration feature only to the dense area of the bag:		
			(This is to detect hidden objects behind dense material. The detected area is analyzed by means of special enhancement filter software. The dark area is highlighted locally.)		
		27.3	Material Classification:		
			Recognition of items inside a piece of luggage by distinguishing material of different origins. Material information is evaluated by means of the multi-energy method, where high and low energy radiation signals obtained after penetration of the object are compared. Organic, inorganic/metallic, indeterminate substances shall be differentiated by three (3) colors only. Impenetrable items shall be represented as black. Maximum of four (4) colors (including black), for efficient differentiation.		
		27.4	Artificial Intelligence (AI) Software:		
			The automated detection software is to assist operators in image analysis by detecting prohibited items such as firearms/guns/gun parts, ammunition, knives, grenades and other explosive materials inside the parcels and luggage.		
			OPERATING ENVIRONMENT		
		28.1	Must be designed to operate under actual Philippine atmospheric conditions		

		28.2	Humidity: Up to 90% Non-condensing;		
		28.3	Operating Temperature: Up to 40°C		
		28.4	Storage Temperature: Up to 50°C		
		ELECTRICAL/POWER			
		29	Power Supply: Must be designed to operate at 220 VAC 60 Hz		
		HEALTH & SAFETY			
		30.1	Must comply with published international health and safety standards: *(Must comply with published international health and safety standards including the U.S. F.D.A. Centre for Devices and Radiation Health Standards for Cabinet X-Ray Devices (Federal Standard 21-CFR 1020.40) and/or any European equivalent standard and specifications)*		
		30.2	System should be provided with emergency stop buttons on both ends with cover. Emergency stop is also available in the controlled keyboard.		
		30.3	Maximum Radiation Dose Per Inspection: Not More Than 5μSv (0.5 mR) Leakage radiation: below 2μSv/h (0.2mR/h) at a distance of 5 cm.		
		30.4	*(Radiation emitted shall not exceed an exposure of 0.2 mill roentgen on one hour at any point five (5) centimeters outside the external surface)*		
		30.5	Systems should be provided with "System Energized" and "X-Ray on" indicators at both ends of the X-Ray Runnel and on the operator Workstation		
		30.6	Film safety guaranteed up to ISO 1600 (33 DIN)		
		30.7	System shall be manufactured in an ISO 9001: 2015 (Quality Management System) and ISO 14001: 2015 (Management System) Certified facility or latest.		
		FUNCTIONS/CAPABILITIES			
		31.1	Function that allows insertion of date/time, luggage counter, user ID number, luggage marking system (acoustic), display of operating mode, review feature, programmable priority keys. Control keyboard must be heavy duty soft touch buttons. Touch pad in keyboard is not acceptable.		
		31.2	Function that allows electronic stepless zoom enlargement up to **64x**, pixel interpolation, and permanent display of a miniature image overview with zoom positioning.		

		31.3	Function that allows review of minimum 40 **images** of previously scanned objects at real time. Image processing functions can be operated simultaneously.		
		31.4	Function that facilitates the identification of low absorbing objects.		
		31.5	Negative image function.		
		31.6	Function that suppresses all non-organic material from the image. Objects made of organic material are emphasized.		
		31.7	Function that suppresses all organic material from the image. Objects made of non-organic material are emphasized.		
		31.8	Function that allows X-ray operators to select arrange or absorption. Only objects whose absorption degrees are within the selected range are displayed. They must be displayed with highly increased contrasts while all other objects are suppressed.		
		31.9	Function that supports the operator in evaluating X-ray images with optimum contrast throughout the image, improving recognition of single objects like plastic weapons, explosives and drugs. Such objects must be clearly identified even if metals sheets cover them.		
		31.10	Function that automatically alerts screeners of the presence of high absorbing material by drawing a mark around such objects.		
		31.11	Function that further refines detection of organic materials with the automatic detection of organic substances.		
		31.12	One button image magnification to fit screen size.		
		31.13	Function that allows users to save, archives, and organize X-Ray images.		
		31.14	Function, which allows users to select and print on any standard printer any, saved images.		
		31.15	Function that allows the alarm system to be triggered by suspicious baggage or which can be initiated by the operator to identify suspicious baggage emerging from the inspection chamber.		
		31.16	Threat Image Projection (TIP): system that projects fictional threats on a random basis over real X-ray images of scanned baggage. System must allow for configuration by high level users, where parameters such as type of threats, frequency of projection, etc. can be configured. TIP function must be FAA/TSA, DfT and STAC approved.		

31.17	Networking support – The system must be integrated into such network solutions that allow for:
	a. Image evaluation at remote workstation
31.18	b. Central image date archive
31.19	c. Centralized system management server
31.20	d. Threat image projection and operator training system
31.21	Function that provides self-diagnostics. Must have self-diagnostics that allows users to monitor their machine health status, thus greatly increasing the system lifespan.
REGULATORY APPROVAL/S	
32	The system/technology equipment/model must be included in the TSA QUALIFIED TECHNOLOGIES LIST or ECAC CEP PUBLIC EQUIPMENT LIST which means that it has undergone formal TSA or ECAC sponsored test process and have been deemed qualified for screening operations.

SMALL BAGGAGE X-RAY MACHINE 60 x 40 DUAL VIEW AND ITS ACCESSORIES

PHYSICAL REQUIREMENTS	
	Tunnel Size not to exceed:
1.1	- Width 620 mm
1.2	- Height 420 mm
	Minimum System Dimensions:
2.1	- Width 1000 mm
2.2	- Length 2000 mm
2.3	- Height 1000 mm
2.4	Maximum System Weight: 850 kg
3	Maximum Conveyor Height: 900 mm Minimum Conveyor Height: 700 mm
4	Conveyor Load: Conveyor must support a minimum load of 150 kgs. evenly distributed;
5	Conveyor Speed: Minimum of 0.24 meters per second at 60 Hz frequency;
6	Conveyor Direction: Bi-Directional conveyor;
7	Conveyor Motor: Sealed drum, maintenance free
8	Conveyor Type: Belt
9	Emergency Stop Buttons mounted at the entry and exit points of the tunnel
10	Entry Roller: 1 meter

		11	Exit Roller: 2.0 meters with stopper		
		12	The system shall be mounted on heavy-duty castors for ease of movement.		
		13	It shall be fixed in place by means of adjustable screw jack leveling feet.		
		X-RAY GENERATORS			
		14	Beam Direction: Upward and Sideward (Dual View)		
		15	Anode voltage minimum: 160 kV cp (operated)		
		16	Cooling/housing – Hermetically sealed oil bath/single tank for each generator.		
		17	Anode current: not more than 1mA.		
		DETECTION SYSTEM			
		18	Multi Energy (2 detector arrays; high and low energy)		
		19	No. of photo diodes (x-ray detectors) dual view: - Minimum of 1400 photo diodes for View 1. - Minimum of 1600 photo diodes for View 2.		
		OPERATION, PENTRATION, & SENSITVITY			
		20	Minimum Penetration (Manufacturer's Test Piece (MTP): 35 mm steel (View 1 and view 2)		
		MINIMUM RESOLUTION (Wire recognition)			
		21	40 AWG wire		
		DUTY CYCLE			
		22	100%, no warm-up procedure required		
		VIDEO DISPLAY			
		Must be capable of real time image scrolling:			
		23.1	*(As the bag passes through the x-ray beam, the bag image is constructed on the monitor and appears scrolling visually in the same direction as the conveyor movement. No delay of scanned image in the monitor.)*		
		23.2	Minimum Display Technology: TFT/LCD/LED Monitors		
		23.3	Minimum Monitor Size: 19-inch TFT/LCD/LED Monitors		
		COMPUTER SPECIFICATIONS			
		System controller with built-in media bay to house various data storage modules:			
		24.1	The main hard drive should have a minimum of 1TB.		

		24.2	USB port 2.0/3.0 for downloading scanned images.		
		24.3	Open Source Operating Systems – It is understood that open source operation systems are released under a license where the copyright holder allows others to study, change as well as distribute the software to other people. Updates must be free for the next five (5) years from acceptance.		
		CONSTANT VOLTAGE TRANSFORMER (CVT)			
		25	Minimum of 5KVA with surge protection - Input voltage range: 115 -275 VAC - Output Voltage: 220 VAC +/- 2%		
		UNINTERRUPTIBLE POWER SUPPLY (UPS)			
		26.1	Minimum of 5kVA, Input voltage: 220 VAC, - Input Range: 165-275 VAC - Output Voltage: 220VAC +/- 2% - Back-up time: min. 30 mins on actual **operational** load of x-ray and walkthrough being offered. - Standby time: min. 60 mins on actual **standby mode** load of x-ray and walkthrough being offered.		
		OPERATOR IMAGE ANALYSIS			
		27.1	Must have automatic threat and contraband detection of explosives and drugs (operator assist software or equivalent): *(Capability to directly indicate and recognize, in real time, potential explosives and drugs. This is threat identification operator alert software package that automatically screens for potential explosives and other threats by utilizing advanced material classification and atomic density analysis by drawing marking around the area of suspicion. If multiple threats are perceived in a single image, the system will draw multiple markings in the suspect areas. Th Operator assist software is designed to assist vigilant operators in locating and identifying threats.)*		
		27.2	Must have automatic dense area detection capability to automatically identify dense area and apply high penetration feature only to the dense area of the bag: *(This is to detect hidden objects behind dense material. The detected area is analyzed by means*		

			of special enhancement filter software. The dark area is highlighted locally.)		
		27.3	Material Classification:		
			Recognition of items inside a piece of luggage by distinguishing material of different origins. Material information is evaluated by means of the multi-energy method, where high and low energy radiation signals obtained after penetration of the object are compared. Organic, inorganic/metallic, indeterminate substances shall be differentiated by three (3) colors only. Impenetrable items shall be represented as black. Maximum of four (4) colors (including black), for efficient differentiation.		
		27.4	Artificial Intelligence (AI) Software		
			The automated detection software is to assist operators in image analysis by detecting prohibited items such as firearms/guns/gun parts, ammunition, knives, grenades and other explosive materials inside the parcels and luggage.		
		OPERATING ENVIRONMENT			
		28.1	Must be designed to operate under actual Philippine atmospheric conditions		
		28.2	Humidity: Up to 90% Non-condensing;		
		28.3	Operating Temperature: Up to 40°C		
		28.4	Storage Temperature: Up to 50°C		
		ELECTRICAL/POWER			
		29	Power Supply: Must be designed to operate at 220 VAC 60 Hz		
		HEALTH & SAFETY			
		30.1	Must comply with published international health and safety standards:		
			(Must comply with published international health and safety standards including the U.S. F.D.A. Centre for Devices and Radiation Health Standards for Cabinet X-Ray Devices (Federal Standard 21-CFR 1020.40) and/or any European equivalent standard and specifications)		
		30.2	System should be provided with emergency stop buttons on both ends with cover. Emergency stop is also available in the controlled keyboard.		
		30.3	Maximum Radiation Dose Per Inspection: Not More Than 5μSv (0.5 mR)		
			Leakage radiation: below 2μSv/h (0.2mR/h) at a distance of 5 cm.		

		30.4	*(Radiation emitted shall not exceed an exposure of 0.2 mill roentgen on one hour at any point five (5) centimeters outside the external surface)*		
		30.5	Systems should be provided with "System Energized" and "X-Ray on" indicators at both ends of the X-Ray Runnel and on the operator Workstation		
		30.6	Film safety guaranteed up to ISO 1600 (33 DIN)		
		30.7	System shall be manufactured in an ISO 9001: 2015 (Quality Management System) and ISO 14001: 2015 (Management System) Certified facility or latest.		
			FUNCTIONS/CAPABILITIES		
		31.1	Function that allows insertion of date/time, luggage counter, user ID number, luggage marking system (acoustic), display of operating mode, review feature, programmable priority keys. Control keyboard must be heavy duty soft touch buttons. Touch pad in keyboard is not acceptable.		
		31.2	Function that allows electronic stepless zoom enlargement up to **64x**, pixel interpolation, and permanent display of a miniature image overview with zoom positioning.		
		31.3	Function that allows review of minimum **40 images** of previously scanned objects at real time. Image processing functions can be operated simultaneously.		
		31.4	Function that facilitates the identification of low absorbing objects.		
		31.5	Negative image function.		
		31.6	Function that suppresses all non-organic material from the image. Objects made of organic material are emphasized.		
		31.7	Function that suppresses all organic material from the image. Objects made of non-organic material are emphasized.		
		31.8	Function that allows X-ray operators to select arrange or absorption. Only objects whose absorption degrees are within the selected range are displayed. They must be displayed with highly increased contrasts while all other objects are suppressed.		
		31.9	Function that supports the operator in evaluating X-ray images with optimum contrast throughout the image, improving recognition of single objects like plastic weapons, explosives and		

			drugs. Such objects must be clearly identified even if metals sheets cover them.		
		31.10	Function that automatically alerts screeners of the presence of high absorbing material by drawing a mark around such objects.		
		31.11	Function that further refines detection of organic materials with the automatic detection of organic substances.		
		31.12	One button image magnification to fit screen size.		
		31.13	Function that allows users to save, archives, and organize X-Ray images.		
		31.14	Function, which allows users to select and print on any standard printer any, saved images.		
		31.15	Function that allows the alarm system to be triggered by suspicious baggage or which can be initiated by the operator to identify suspicious baggage emerging from the inspection chamber.		
		31.16	Threat Image Projection (TIP): system that projects fictional threats on a random basis over real X-ray images of scanned baggage. System must allow for configuration by high level users, where parameters such as type of threats, frequency of projection, etc. can be configured. TIP function must be FAA/TSA, DfT and STAC approved.		
		31.17	Networking support – The system must be integrated into such network solutions that allow for:		
			a. Image evaluation at remote workstation		
		31.18	b. Central image date archive		
		31.19	c. Centralized system management server		
		31.20	d. Threat image projection and operator training system		
		31.21	Function that provides self-diagnostics. Must have self-diagnostics that allows users to monitor their machine health status, thus greatly increasing the system lifespan.		
		REGULATORY APPROVAL/S			
		32	The system/technology equipment/model must be included in the TSA QUALIFIED TECHNOLOGIES LIST and ECAC CEP PUBLIC EQUIPMENT LIST – LIQUID EXPLOSIVE DETECTION SYSTEMS (LEDS) Which means that it has undergone formal TSA and ECAC sponsored test process and have been deemed qualified for screening operations.		

WALK-THROUGH METAL DETECTOR GENERAL REQUIREMENTS

1	The walkthrough metal detector must be able to detect metal objects like guns, knives and other flat and rod-shaped weapons regardless of archway location.
2	It must be equipped with multi zones of detection which can perform independently of each other. It must be able to monitor the left, center and right of a person while the horizontal zone will determine the height at which a weapon is concealed.
3	The detector must reduce to a minimum, if not totally eliminate, the number of false alarms caused by personal effect such as keys, coin, jewelry, belt buckles, pens, etc.
4	It must minimize alarms caused by external electrical and electro-magnetic interference and vibration,
5	Equipment must be safe for users of pacemakers, pregnant women, magnetic recording materials and magnetic strips.
6	Presence of detectable object with field of any detector element must be indicated by immediate sounding of audible and adjustable tone alarms and illumination of bright LED visual alarm signals on the respective indicator lamps on both detector unit housing and control unit.
7	Conditions for detection must be as follows: (a) Person/s being inspected: walking through and at approximate centerline between sides of housing and at normal walking speed. (b) Detection speed: at least 10m/sec. (c) Other person/s: at least 600 mm away from any outside surface of detection must not cause an alarm/detection.
8	Security package: at least 45 built-in security program
9	Programming Access Protection: equipped with access card protection
10	Self-diagnostic function
11	Capable of automatic synchronization without the use of external cables.
12	Compliant with International Standards for Electrical Safety, EMC and must be ISO certified and included in the ECAC CEP Equipment List - WTMD

C. WALK-THROUGH METAL DETECTOR TECHNICAL SPECIFICATION

SPECIFICATIONS		
1	Passage Height	Maximum – 2050mm
2	Passage Width	Minimum - 720mm
3	Overall Height	Maximum – 2255mm
4	Overall Width	Maximum – 935mm
5	60 localization zones	
6	20 vertical zones	
7	3 lateral zones	
8	With left, center, and right indication	

FEATURES & CAPABILITIES	
9	3-Level Password and hardware key access protection
10	Automatic Operational Functional Verification (OFV)
11	Automatic Channel Search (CS)
12	Automatic Floor Gain Adjustment (FGA)
13	Automatic Technical Function Verification (TFV)
14	Automatic Environmental Noise Compensation (ENA)
15	With Anti-tamper ON/OFF Switch
16	With embedded battery charger and under-voltage protection
17	Wide volume control especially for very noisy environments
18	Allows settings of the security level without the need of programming the entire device.

OTHER TERMS AND CONDITIONS

The following certifications/undertaking form part of the technical requirements, to be submitted during the opening of bids:

1. **Authorized Distributorship.** The Supplier shall be an authorized distributor of the offered equipment for the last ten (10) years or more. This certificate shall have been issued by the Manufacturer of the equipment. The original copies of these documents with Red Ribbon and/or Apostile shall be submitted during bid opening in separate envelope.

	2. **Brand-new Units.** The units shall have been manufactured in the year 2025 onwards. A certification by the manufacturer to this effect shall be presented. 3. **Warranty.** Each unit shall be free from defects in material and workmanship. This shall cover a period of one (1) year from the date of receipt of the equipment by the PPA, wherein all costs for any repairs and/or replacement of parts of the equipment shall be for the account of the Supplier. 4. **After-Sales Service.** The Supplier shall have a minimum of ten (10) service personnel, qualified and certified by the manufacturer, who can perform preventive and corrective maintenance on-site at any requested time. The Supplier shall provide for technical support, either through phone-in hotline or on-site visits, if necessary. Phone-in concerns to the Supplier's technical support group shall be resolved within five (5) hours from the call. Any request for an on-site inspection/work on the equipment shall be done within 24 – 72 hours from the time of such request. 5. **In-Country Service and Maintenance.** The Supplier must have an established/existing reliable in-country Maintenance and After Sales Service for the last fifteen (15) years with qualified service technician certified by the Manufacturer. 6. **Availability of Spare Parts.** The Supplier must undertake to make available spare parts within the next ten (10) years from delivery and acceptance of the equipment by the PPA. 7. **Training/Orientation.** The Supplier shall provide an undertaking that it will provide training/orientation on the use and maintenance of the equipment for concerned PPA personnel. Schedule of training shall be in coordination with the Port Police Department. 8. **Track Record.** A certification that the equipment brand has been marketed and supplied in the Philippines for the last fifteen (15) years shall be submitted. The Supplier must have sold of that offered equipment at least 50 units in the Philippines for the last five (5) years. 9. **Equipment Brochures/Manuals.** The brochures, technical manual, technical specification literature, etc., of the equipment offered (baggage x-ray and walk-through	

	metal detector) shall be submitted. All specification as per the brochure shall conform to the specifications and features of the equipment in this Terms of Reference.	
	TESTING Visual and Functional Test will be done during Testing and Commissioning at the deployment sites.	
	All other provisions stated in the Terms of Reference not included herein.	

TERMS OF REFERENCE

SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF BAGGAGE X-RAY MACHINES AND WALK-THROUGH METAL DETECTORS FOR PORT MANAGEMENT OFFICES (ASD-006-2025)

This Terms of Reference (TOR) provides the technical description and other terms and conditions for the Supply, Delivery, Installation, Testing and Commissioning of Baggage X-Ray Machines and Walk-Through Metal Detectors for Ports Management Offices.

I. PROJECT SCOPE

One (1) lot comprises the following:

- Fifteen (15) Baggage X-ray Machines 100x100 dual view and its accessories
- Two (2) Baggage X-ray Machines 60x40 dual view and its accessories
- Seventeen (17) Walk-Through Metal Detectors
- Seventeen (17) Uninterruptable Power Supply (UPS)
- Seventeen (17) Constant Voltage Transformer (CVT)

Deployment of Baggage X-ray Machines and Walk-Through Metal Detectors

LOCATION	SIZE
1. TMO Benoni	Big
2. Port of Balanacan PTB	Big
3. Port of Lucena PTB	Big
4. Port of Matnog PTB	Big
5. Port of Surigao (Baseport-PTB)	Big
6. Port of Mindoro PTB	Big
7. Port of Palawan PTB	Big
8. TMO Tubigon	Big
9. Port of Tagbilaran PTB	Big
10. TMO Jagna PTB	Big
11. Port of Misamis Oriental CDO	Big
12. Port of Iligan PTB	Big
13. Port of Legaspi	Big
14. Port of Bacolod	Big
15. Port of San Pedro	Big

16. Port of Bulan	Small
17. Port of Jubang	Small

II. APPROVED BUDGET FOR THE CONTRACT (ABC)

The Approved Budget for the Contract is **One Hundred Fifty Million Pesos Only (Php 150,000,000.00)**

III. TECHNICAL SPECIFICATIONS

A. BAGGAGE X-RAY MACHINE GENERAL REQUIREMENTS

1	All units shall be brand new. Each set of baggage X-ray machine shall include: • In/Out roller, exit rollers • Operator's Desk • Two (2) Colored 19" TFT/LCD/LED Monitors • Control Keyboard • Constant Voltage Transformer (CVT) • Uninterruptible Power Supply (UPS)
2	The equipment shall have dual-view technology with dual-energy functions for material discrimination. It should effectively eliminate the uncertainty caused by overlapping objects, even without repositioning.
3	Must have low x-ray leakage dose rate and guarantee the safety of the environment as well as the operators and passengers.
4	Must have the ability to archive images on internal hard drive. Hard drive capacity must be at least 1Terrabyte.
5	The system must be able to provide a function that automatically detects organic substances highlighting a region of the system that may display organic substances through color distinction.
6	The system must be capable of identifying dense areas and apply the high penetration feature only to the dense areas of the bag.
7	The system should be capable of categorizing materials as (a) organic/non-organic, (b) metals, (c) explosives, (d) others – as may be programmed, through 3-color imaging (material classification) only and black color for high dense materials.
8	Threat Image Protection (TIP): The system shall be capable of automatic projection of threat images to enhance the alertness of the system operators.

9	Does not require warm-up.
10	Must be included in the Transportation Security Administration (TSA) Qualified List and has undergone a formal TSA-sponsored test process and is deemed qualified for screening operations and/or its European equivalent standard. The TSA Qualified list should be submitted during post- qualification.
	X-RAY SAFETY REQUIREMENTS
11	Lead shielded construction to limit the leakage of the x-ray radiation to not more than 2μSv/h (0.2 mR/h) at a distance of 5 cm.
12	Lead curtains at baggage entry and exit ends of the tunnel.
13	Lights at each end of the tunnel and an x-ray generator LED on the control panel.
14	An emergency Stop Button to turn off power of the x-ray generator
15	Circuit breakers for every electrical abnormality.
	REVIEW FUNCTION
16	The system shall be capable of reviewing up to a minimum of 40 previously scanned objects.
	IMAGE ENHANCEMENT FUNCTION
17	Facilitate the identification of objects obscured by highly absorbing materials. With automated procedure for the recognition of areas with high x-ray absorbing material by any form of visual alarm.
18	Color imaging functions of the x-ray machines must be limited to three (3) colors representing material classification and black color for high density material.
19	Must have an image management function, capable of adding, deleting, copying and printing at least 100,000 x-ray images of scanned baggage's or files.
20	Must have an interconnectivity capability of transmitting x-ray image to an external computer via network.
21	The system shall be capable for Network Management System (NMS) or any equivalent for remote viewing and remote monitoring.
22	The equipment must be equipped with a Constant Voltage Transformer (CVT) with built-in power surge protection and Uninterruptible Power Supply (UPS) that run the system for minimum of thirty (30) minutes backup power.
23	Must be equipped with Artificial Intelligence (AI) software algorithms that automatically identify prohibited items.

B. BAGGAGE X-RAY MACHINE TECHNICAL SPECIFICATIONS

BIG BAGGAGE X-RAY MACHINE 100 x 100 DUAL VIEW AND ITS ACCESSORIES

PHYSICAL REQUIREMENTS	
	Tunnel Size not to exceed:
1.1	- Width 1010 mm
1.2	- Height 1010 mm
	Minimum System Dimensions:
2.1	- Width 1500 mm.
2.2	- Length 3500 mm.
2.3	- Height 1700 mm
2.4	Maximum System Weight: 1,100 kg
3	Conveyor Height not to exceed: 700 mm from the ground.
4	Conveyor Load: Conveyor must support a minimum load of 200 kgs. evenly distributed;
5	Conveyor Speed: Minimum of 0.2 meters per second at 60 Hz frequency;
6	Conveyor Direction: Bi-Directional conveyor;
7	Conveyor Motor: Sealed drum, maintenance free
8	Conveyor Type: Belt
9	Emergency Stop Buttons mounted at the entry and exit points of the tunnel
10	Entry Roller: 1 meter
11	Exit Roller: 2.0 meters with stopper
12	The system shall be mounted on heavy-duty castors for ease of movement.
13	It shall be fixed in place by means of adjustable screw jack leveling feet.
X-RAY GENERATORS	
14	Beam Direction: Upward and Sideward (Dual View)
15	Anode voltage minimum: 160 kV cp (operated)
16	Cooling/housing – Hermetically sealed oil bath/single tank for each generator.
17	Anode current: not more than 1mA.
DETECTION SYSTEM	
18	Multi Energy (2 detector arrays; high and low energy)
19	No. of photo diodes (x-ray detectors) dual view: - Minimum of 2300 photo diodes for View 1. - Minimum of 2300 photo diodes for View 2.
OPERATION, PENETRATION, & SENSITVITY	

20	Minimum Penetration (Manufacturer's Test Piece (MTP): 35 mm steel (View 1 and view 2)
MINIMUM RESOLUTION (Wire recognition)	
21	38 AWG wire
DUTY CYCLE	
22	100%, no warm-up procedure required
VIDEO DISPLAY	
Must be capable of real time image scrolling:	
23.1	*(As the bag passes through the x-ray beam, the bag image is constructed on the monitor and appears scrolling visually in the same direction as the conveyor movement. No delay of scanned image in the monitor.)*
23.2	Minimum Display Technology: TFT/LCD/LED Monitors
23.3	Minimum Monitor Size: 19-inch TFT/LCD/LED Monitors
COMPUTER SPECIFICATIONS	
System controller with built-in media bay to house various data storage modules:	
24.1	The main hard drive should have a minimum of 1TB.
24.2	USB port 2.0/3.0 for downloading scanned images.
24.3	Open Source Operating Systems – It is understood that open source operation systems are released under a license where the copyright holder allows others to study, change as well as distribute the software to other people. Updates must be free for the next five (5) years from acceptance.
CONSTANT VOLTAGE TRANSFORMER (CVT)	
25	Minimum of 5KVA with surge protection - Input voltage range: 115 - 275 VAC - Output Voltage: 220 VAC +/- 2%
UNINTERRUPTIBLE POWER SUPPLY (UPS)	
26.1	Minimum of 5kVA, Input voltage: 220 VAC, - Input Range: 165-275 VAC - Output Voltage: 220VAC +/- 2% - Back-up time: min. 30 mins on actual **operational** load of x-ray and walkthrough being offered. - Standby time: min. 60 mins on actual **standby mode** load of x-ray and walkthrough being offered.
OPERATOR IMAGE ANALYSIS	

27.1	Must have automatic threat and contraband detection of explosives and drugs (operator assist software or equivalent): *(Capability to directly indicate and recognize, in real time, potential explosives and drugs. This is threat identification operator alert software package that automatically screens for potential explosives and other threats by utilizing advanced material classification and atomic density analysis by drawing marking around the area of suspicion. If multiple threats are perceived in a single image, the system will draw multiple markings in the suspect areas. The Operator assist software is designed to assist vigilant operators in locating and identifying threats.)*
27.2	Must have automatic dense area detection capability to automatically identify dense area and apply high penetration feature only to the dense area of the bag: *(This is to detect hidden objects behind dense material. The detected area is analyzed by means of special enhancement filter software. The dark area is highlighted locally.)*
27.3	Material Classification: *Recognition of items inside a piece of luggage by distinguishing material of different origins. Material information is evaluated by means of the multi-energy method, where high and low energy radiation signals obtained after penetration of the object are compared. Organic, inorganic/metallic, indeterminate substances shall be differentiated by three (3) colors only. Impenetrable items shall be represented as black. Maximum of four (4) colors (including black), for efficient differentiation.*
27.4	Artificial Intelligence (AI) Software: The automated detection software is to assist operators in image analysis by detecting prohibited items such as firearms/guns/gun parts, ammunition, knives, grenades and other explosive materials inside the parcels and luggage.
OPERATING ENVIRONMENT	
28.1	Must be designed to operate under actual Philippine atmospheric conditions
28.2	Humidity: Up to 90% Non-condensing;
28.3	Operating Temperature: Up to 40°C
28.4	Storage Temperature: Up to 50°C
ELECTRICAL/POWER	
29	Power Supply: Must be designed to operate at 220 VAC 60 Hz

HEALTH & SAFETY	
30.1	Must comply with published international health and safety standards: *(Must comply with published international health and safety standards including the U.S. F.D.A. Centre for Devices and Radiation Health Standards for Cabinet X-Ray Devices (Federal Standard 21-CFR 1020.40) and/or any European equivalent standard and specifications)*
30.2	System should be provided with emergency stop buttons on both ends with cover. Emergency stop is also available in the controlled keyboard.
30.3	Maximum Radiation Dose Per Inspection: Not More Than 5µSv (0.5 mR) Leakage radiation: below 2µSv/h (0.2mR/h) at a distance of 5 cm.
30.4	*(Radiation emitted shall not exceed an exposure of 0.2 mill roentgen on one hour at any point five (5) centimeters outside the external surface)*
30.5	Systems should be provided with "System Energized" and "X-Ray on" indicators at both ends of the X-Ray Runnel and on the operator Workstation
30.6	Film safety guaranteed up to ISO 1600 (33 DIN)
30.7	System shall be manufactured in an ISO 9001: 2015 (Quality Management System) and ISO 14001: 2015 (Management System) Certified facility or latest.
FUNCTIONS/CAPABILITIES	
31.1	Function that allows insertion of date/time, luggage counter, user ID number, luggage marking system (acoustic), display of operating mode, review feature, programmable priority keys. Control keyboard must be heavy duty soft touch buttons. Touch pad in keyboard is not acceptable.
31.2	Function that allows electronic stepless zoom enlargement up to **64x**, pixel interpolation, and permanent display of a miniature image overview with zoom positioning.
31.3	Function that allows review of minimum **40 images** of previously scanned objects at real time. Image processing functions can be operated simultaneously.
31.4	Function that facilitates the identification of low absorbing objects.
31.5	Negative image function.
31.6	Function that suppresses all non-organic material from the image. Objects made of organic material are emphasized.
31.7	Function that suppresses all organic material from the image. Objects made of non-organic material are emphasized.
31.8	Function that allows X-ray operators to select arrange or absorption. Only objects whose absorption degrees are within the selected range are

	displayed. They must be displayed with highly increased contrasts while all other objects are suppressed.
31.9	Function that supports the operator in evaluating X-ray images with optimum contrast throughout the image, improving recognition of single objects like plastic weapons, explosives and drugs. Such objects must be clearly identified even if metals sheets cover them.
31.10	Function that automatically alerts screeners of the presence of high absorbing material by drawing a mark around such objects.
31.11	Function that further refines detection of organic materials with the automatic detection of organic substances.
31.12	One button image magnification to fit screen size.
31.13	Function that allows users to save, archives, and organize X-Ray images.
31.14	Function, which allows users to select and print on any standard printer any, saved images.
31.15	Function that allows the alarm system to be triggered by suspicious baggage or which can be initiated by the operator to identify suspicious baggage emerging from the inspection chamber.
31.16	Threat Image Projection (TIP): system that projects fictional threats on a random basis over real X-ray images of scanned baggage. System must allow for configuration by high level users, where parameters such as type of threats, frequency of projection, etc. can be configured. TIP function must be FAA/TSA, DfT and STAC approved.
31.17	Networking support – The system must be integrated into such network solutions that allow for:
	a. Image evaluation at remote workstation
31.18	b. Central image date archive
31.19	c. Centralized system management server
31.20	d. Threat image projection and operator training system
31.21	Function that provides self-diagnostics. Must have self-diagnostics that allows users to monitor their machine health status, thus greatly increasing the system lifespan.
REGULATORY APPROVAL/S	
32	The system/technology equipment/model must be included in the TSA QUALIFIED TECHNOLOGIES LIST or ECAC CEP PUBLIC EQUIPMENT LIST which means that it has undergone formal TSA or ECAC sponsored test process and have been deemed qualified for screening operations.

SMALL BAGGAGE X-RAY MACHINE 60 x 40 DUAL VIEW AND ITS ACCESSORIES

	PHYSICAL REQUIREMENTS
	Tunnel Size not to exceed:
1.1	- Width 620 mm
1.2	- Height 420 mm
	Minimum System Dimensions:
2.1	- Width 1000 mm
2.2	- Length 2000 mm
2.3	- Height 1000 mm
2.4	Maximum System Weight: 850 kg
3	Maximum Conveyor Height: 900 mm Minimum Conveyor Height: 700 mm
4	Conveyor Load: Conveyor must support a minimum load of 150 kgs. evenly distributed;
5	Conveyor Speed: Minimum of 0.24 meters per second at 60 Hz frequency;
6	Conveyor Direction: Bi-Directional conveyor;
7	Conveyor Motor: Sealed drum, maintenance free
8	Conveyor Type: Belt
9	Emergency Stop Buttons mounted at the entry and exit points of the tunnel
10	Entry Roller: 1 meter
11	Exit Roller: 2.0 meters with stopper
12	The system shall be mounted on heavy-duty castors for ease of movement.
13	It shall be fixed in place by means of adjustable screw jack leveling feet.
	X-RAY GENERATORS
14	Beam Direction: Upward and Sideward (Dual View)
15	Anode voltage minimum: 160 kV cp (operated)
16	Cooling/housing – Hermetically sealed oil bath/single tank for each generator.
17	Anode current: not more than 1mA.
	DETECTION SYSTEM
18	Multi Energy (2 detector arrays; high and low energy)
19	No. of photo diodes (x-ray detectors) dual view: - Minimum of 1400 photo diodes for View 1. - Minimum of 1600 photo diodes for View 2.
	OPERATION, PENTRATION, & SENSITVITY
20	Minimum Penetration (Manufacturer's Test Piece (MTP): 35 mm steel (View 1 and view 2)

MINIMUM RESOLUTION (Wire recognition)	
21	40 AWG wire
DUTY CYCLE	
22	100%, no warm-up procedure required
VIDEO DISPLAY	
Must be capable of real time image scrolling:	
23.1	*(As the bag passes through the x-ray beam, the bag image is constructed on the monitor and appears scrolling visually in the same direction as the conveyor movement. No delay of scanned image in the monitor.)*
23.2	Minimum Display Technology: TFT/LCD/LED Monitors
23.3	Minimum Monitor Size: 19-inch TFT/LCD/LED Monitors
COMPUTER SPECIFICATIONS	
System controller with built-in media bay to house various data storage modules:	
24.1	The main hard drive should have a minimum of 1TB.
24.2	USB port 2.0/3.0 for downloading scanned images.
24.3	Open Source Operating Systems – It is understood that open source operation systems are released under a license where the copyright holder allows others to study, change as well as distribute the software to other people. Updates must be free for the next five (5) years from acceptance.
CONSTANT VOLTAGE TRANSFORMER (CVT)	
25	Minimum of 5KVA with surge protection - Input voltage range: 115 -275 VAC - Output Voltage: 220 VAC +/- 2%
UNINTERRUPTIBLE POWER SUPPLY (UPS)	
26.1	Minimum of 5kVA, Input voltage: 220 VAC, - Input Range: 165-275 VAC - Output Voltage: 220VAC +/- 2% - Back-up time: min. 30 mins on actual **operational** load of x-ray and walkthrough being offered. - Standby time: min. 60 mins on actual **standby mode** load of x-ray and walkthrough being offered.
OPERATOR IMAGE ANALYSIS	
27.1	Must have automatic threat and contraband detection of explosives and drugs (operator assist software or equivalent):

	(Capability to directly indicate and recognize, in real time, potential explosives and drugs. This is threat identification operator alert software package that automatically screens for potential explosives and other threats by utilizing advanced material classification and atomic density analysis by drawing marking around the area of suspicion. If multiple threats are perceived in a single image, the system will draw multiple markings in the suspect areas. Th Operator assist software is designed to assist vigilant operators in locating and identifying threats.)
27.2	Must have automatic dense area detection capability to automatically identify dense area and apply high penetration feature only to the dense area of the bag:
	(This is to detect hidden objects behind dense material. The detected area is analyzed by means of special enhancement filter software. The dark area is highlighted locally.)
27.3	Material Classification:
	Recognition of items inside a piece of luggage by distinguishing material of different origins. Material information is evaluated by means of the multi-energy method, where high and low energy radiation signals obtained after penetration of the object are compared. Organic, inorganic/metallic, indeterminate substances shall be differentiated by three (3) colors only. Impenetrable items shall be represented as black. Maximum of four (4) colors (including black), for efficient differentiation.
27.4	Artificial Intelligence (AI) Software
	The automated detection software is to assist operators in image analysis by detecting prohibited items such as firearms/guns/gun parts, ammunition, knives, grenades and other explosive materials inside the parcels and luggage.
OPERATING ENVIRONMENT	
28.1	Must be designed to operate under actual Philippine atmospheric conditions
28.2	Humidity: Up to 90% Non-condensing;
28.3	Operating Temperature: Up to 40°C
28.4	Storage Temperature: Up to 50°C
ELECTRICAL/POWER	
29	Power Supply: Must be designed to operate at 220 VAC 60 Hz
HEALTH & SAFETY	
30.1	Must comply with published international health and safety standards:
	(Must comply with published international health and safety standards including the U.S. F.D.A. Centre for Devices and Radiation Health Standards

	for Cabinet X-Ray Devices (Federal Standard 21-CFR 1020.40) and/or any European equivalent standard and specifications)
30.2	System should be provided with emergency stop buttons on both ends with cover. Emergency stop is also available in the controlled keyboard.
30.3	Maximum Radiation Dose Per Inspection: Not More Than 5μSv (0.5 mR)
	Leakage radiation: below 2μSv/h (0.2mR/h) at a distance of 5 cm.
30.4	*(Radiation emitted shall not exceed an exposure of 0.2 mill roentgen on one hour at any point five (5) centimeters outside the external surface)*
30.5	Systems should be provided with "System Energized" and "X-Ray on" indicators at both ends of the X-Ray Runnel and on the operator Workstation
30.6	Film safety guaranteed up to ISO 1600 (33 DIN)
30.7	System shall be manufactured in an ISO 9001: 2015 (Quality Management System) and ISO 14001: 2015 (Management System) Certified facility or latest.
FUNCTIONS/CAPABILITIES	
31.1	Function that allows insertion of date/time, luggage counter, user ID number, luggage marking system (acoustic), display of operating mode, review feature, programmable priority keys. Control keyboard must be heavy duty soft touch buttons. Touch pad in keyboard is not acceptable.
31.2	Function that allows electronic stepless zoom enlargement up to **64x**, pixel interpolation, and permanent display of a miniature image overview with zoom positioning.
31.3	Function that allows review of minimum **40 images** of previously scanned objects at real time. Image processing functions can be operated simultaneously.
31.4	Function that facilitates the identification of low absorbing objects.
31.5	Negative image function.
31.6	Function that suppresses all non-organic material from the image. Objects made of organic material are emphasized.
31.7	Function that suppresses all organic material from the image. Objects made of non-organic material are emphasized.
31.8	Function that allows X-ray operators to select arrange or absorption. Only objects whose absorption degrees are within the selected range are displayed. They must be displayed with highly increased contrasts while all other objects are suppressed.

31.9	Function that supports the operator in evaluating X-ray images with optimum contrast throughout the image, improving recognition of single objects like plastic weapons, explosives and drugs. Such objects must be clearly identified even if metals sheets cover them.
31.10	Function that automatically alerts screeners of the presence of high absorbing material by drawing a mark around such objects.
31.11	Function that further refines detection of organic materials with the automatic detection of organic substances.
31.12	One button image magnification to fit screen size.
31.13	Function that allows users to save, archives, and organize X-Ray images.
31.14	Function, which allows users to select and print on any standard printer any, saved images.
31.15	Function that allows the alarm system to be triggered by suspicious baggage or which can be initiated by the operator to identify suspicious baggage emerging from the inspection chamber.
31.16	Threat Image Projection (TIP): system that projects fictional threats on a random basis over real X-ray images of scanned baggage. System must allow for configuration by high level users, where parameters such as type of threats, frequency of projection, etc. can be configured. TIP function must be FAA/TSA, DfT and STAC approved.
31.17	Networking support – The system must be integrated into such network solutions that allow for:
	a. Image evaluation at remote workstation
31.18	b. Central image date archive
31.19	c. Centralized system management server
31.20	d. Threat image projection and operator training system
31.21	Function that provides self-diagnostics. Must have self-diagnostics that allows users to monitor their machine health status, thus greatly increasing the system lifespan.
REGULATORY APPROVAL/S	
32	The system/technology equipment/model must be included in the TSA QUALIFIED TECHNOLOGIES LIST and ECAC CEP PUBLIC EQUIPMENT LIST – LIQUID EXPLOSIVE DETECTION SYSTEMS (LEDS) Which means that it has undergone formal TSA and ECAC sponsored test process and have been deemed qualified for screening operations.

WALK-THROUGH METAL DETECTOR GENERAL REQUIREMENTS

1	The walkthrough metal detector must be able to detect metal objects like guns, knives and other flat and rod-shaped weapons regardless of archway location.
2	It must be equipped with multi zones of detection which can perform independently of each other. It must be able to monitor the left, center and right of a person while the horizontal zone will determine the height at which a weapon is concealed.
3	The detector must reduce to a minimum, if not totally eliminate, the number of false alarms caused by personal effect such as keys, coin, jewelry, belt buckles, pens, etc.
4	It must minimize alarms caused by external electrical and electro-magnetic interference and vibration,
5	Equipment must be safe for users of pacemakers, pregnant women, magnetic recording materials and magnetic strips.
6	Presence of detectable object with field of any detector element must be indicated by immediate sounding of audible and adjustable tone alarms and illumination of bright LED visual alarm signals on the respective indicator lamps on both detector unit housing and control unit.
7	Conditions for detection must be as follows: (a) Person/s being inspected: walking through and at approximate centerline between sides of housing and at normal walking speed. (b) Detection speed: at least 10m/sec. (c) Other person/s: at least 600 mm away from any outside surface of detection must not cause an alarm/detection.
8	Security package: at least 45 built-in security program
9	Programming Access Protection: equipped with access card protection
10	Self-diagnostic function
11	Capable of automatic synchronization without the use of external cables.
12	Compliant with International Standards for Electrical Safety, EMC and must be ISO certified and included in the ECAC CEP Equipment List - WTMD

C. WALK-THROUGH METAL DETECTOR TECHNICAL SPECIFICATION

SPECIFICATIONS		
1	Passage Height	Maximum – 2050mm
2	Passage Width	Minimum - 720mm
3	Overall Height	Maximum – 2255mm
4	Overall Width	Maximum – 935mm
5	60 localization zones	
6	20 vertical zones	
7	3 lateral zones	
8	With left, center, and right indication	

FEATURES & CAPABILITIES	
9	3-Level Password and hardware key access protection
10	Automatic Operational Functional Verification (OFV)
11	Automatic Channel Search (CS)
12	Automatic Floor Gain Adjustment (FGA)
13	Automatic Technical Function Verification (TFV)
14	Automatic Environmental Noise Compensation (ENA)
15	With Anti-tamper ON/OFF Switch
16	With embedded battery charger and under-voltage protection
17	Wide volume control especially for very noisy environments
18	Allows settings of the security level without the need of programming the entire device.

IV. OTHER TERMS AND CONDITIONS

The following certifications/undertaking form part of the technical requirements, to be submitted during the opening of bids:

1. **Authorized Distributorship.** The Supplier shall be an authorized distributor of the offered equipment for the last ten (10) years or more. This certificate shall have been issued by the Manufacturer of the equipment . The original copies of these documents with Red Ribbon and/or Apostile shall be submitted during bid opening in separate envelope.

2. **Brand-new Units.** The units shall have been manufactured in the year 2025 onwards. A certification by the manufacturer to this effect shall be presented.

3. **Warranty.** Each unit shall be free from defects in material and workmanship. This shall cover a period of one (1) year from the date of receipt of the equipment by the PPA, wherein all costs for any repairs and/or replacement of parts of the equipment shall be for the account of the Supplier.

4. **After-Sales Service.** The Supplier shall have a minimum of ten (10) service personnel, qualified and certified by the manufacturer, who can perform preventive and corrective maintenance on-site at any requested time.

The Supplier shall provide for technical support, either through phone-in hotline or on-site visits, if necessary.

Phone-in concerns to the Supplier's technical support group shall be resolved within five (5) hours from the call. Any request for an on-site inspection/work on the equipment shall be done within 24 – 72
hours from the time of such request.

5. **In-Country Service and Maintenance.** The Supplier must have an established/existing reliable in-country Maintenance and After Sales Service for the last fifteen (15) years with qualified service technician certified by the Manufacturer.

6. **Availability of Spare Parts.** The Supplier must undertake to make available spare parts within the next ten (10) years from delivery and acceptance of the equipment by the PPA.

7. **Training/Orientation.** The Supplier shall provide an undertaking that it will provide training/orientation on the use and maintenance of the equipment for concerned PPA personnel. Schedule of training shall be in coordination with the Port Police Department.

8. **Track Record.** A certification that the equipment brand has been marketed and supplied in the Philippines for the last fifteen (15) years shall be submitted. The Supplier must have sold of that offered equipment at least 50 units in the Philippines for the last five (5) years.

9. **Equipment Brochures/Manuals.** The brochures, technical manual, technical specification literature, etc., of the equipment offered (baggage x-ray and walk-through metal detector) shall be submitted. All specification as per the brochure shall

conform to the specifications and features of the equipment in this Terms of Reference.

V. REQUIREMENT

Must have completed a single contract similar to the contract to be bid whose value must be at least equivalent to fifty percent (50%) of the ABC. For this purpose, a similar contract shall refer to the Supply, Delivery, Installation, Testing and Commissioning of Baggage X-ray Machines and Walk-Through Metal Detectors.

VI. DELIVERY PERIOD

The winning bidder at the areas specified in the Deployment List as stated in Article I hereof, shall complete installation of the sets of equipment within one hundred eighty (180) calendar days from receipt by the winning bidder of the Notice to Proceed.

ITEM NUMBER		QUANTITY
1	Baggage X-ray Machines:	
	- 100x100 dual view - Accessories (Monitors, UPS, input/output rollers, operator's table, etc.)	15 units
	- 60x40 dual view - Accessories (Monitors, UPS, input/output rollers, operator's table, etc.)	2 units
2	- Walk-Through Metal Detector - WTMD standard accessories	17 units

VII. TESTING

Visual and Functional Test will be done during Testing and Commissioning At the deployment sites.

VIII. PAYMENT

a) 65% of contract cost – After inspection and acceptance by Head Office.

b) 35% of contract cost – After installation, commissioning, inspection and acceptance by PMOs.

*Training Certificate must be presented before request of billing.

Genaro P. Mancio, Jr.
Manager/Superintendent
Port Police Department

Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

Technical Documents

☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; **and**

☐ (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
Or

Original copy of Notarized Bid Securing Declaration; **and**

☐ (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**

☐ (f) 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

☐ (g) 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

☐ (h) 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 the following:

a. that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful; and

b. failure to enter into JVA in the event of a contract award shall be a ground for bid disqualification and subsequent forfeiture of the bid security.

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

☐ (i) *[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.

☐ (j) 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 for the Procurement of Goods
[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

To: [name and address of Procuring Entity]

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

If our Bid is accepted, we undertake:

a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);

b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;

c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

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

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

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

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

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

Name: _____
Legal capacity: _____
Signature: _____

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

For Goods Offered from Abroad

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

1	2	3	4	5	6	7	8	9
Item	Description	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)

Name: _____

Legal Capacity: _____

Signature: _____

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

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

For Goods Offered from Within the Philippines

Name of Bidder _____ Project ID No._____ 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 all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

Name: _____

Legal Capacity: _____

Signature: _____

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

Bid Securing Declaration Form
[shall be submitted with the Bid if bidder opts to provide this form of bid security]

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

BID SECURING DECLARATION
Project Identification No.: [Insert number]

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement 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 No. 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; and
   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].

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

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 [total contract 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 Procuring Entity]	[Insert Name of Supplier]

Acknowledgment
[Format shall be based on the latest Rules on Notarial Practice]

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

7. [Name of Bidder] complies with existing labor laws and standards; and

8. [Name of Bidder] is aware of and has undertaken the 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.

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

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/manufacturer/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 OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

NET FINANCIAL CONTRACTING CAPACITY (NFFC) COMPUTATION

A. The values of the bidder's current assets and current liabilities shall be based on the data submitted to the BIR, through its Electronic Filing and Payment System (EFPS).

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(Current asset minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid

NFCC = Php _____

K = 15

Herewith attached are certified true copies of the income tax return and audited financial statement: stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding year.

Submitted by:

_____
Name of Supplier/Distributor/Manufacturer

_____
Signature of Authorized Representative

STATEMENT OF THE BIDDER'S ONGOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

This is to certify that _____ has the following ongoing government and private contracts, including contracts awarded but not yet started:

NAME OF THE CONTRACT	DATE OF THE CONTRACT	CONTRACT DURATION	OWNER'S NAME & ADDRESS	KINDS OF GOODS/SERVICES DELIVERED	AMOUNT OF CONTRACT	VALUE OF OUTSTANDING CONTRACT	DATE OF DELIVERY

*PROOF OF CONTRACT TO BE PRESENTED AT POST-QUALIFICATION.

_____ _____

Name and Signature of Authorized Representative Date

STATEMENT OF THE BIDDER'S SINGLE LARGEST COMPLETED CONTRACT (SLCC) SIMILAR TO THE CONTRACT TO BE BID

This is to certify that _____ has completed the following:

NAME OF THE CONTRACT	DATE OF THE CONTRACT	CONTRACT DURATION	OWNER'S NAME & ADDRESS	KINDS OF GOODS	AMOUNT OF COMPLETED CONTRACT/S	DATE OF DELIVERY	END USER'S ACCEPTANCE OR OFFICIAL RECEIPT(S) OR SALES INVOICE ISSUED FOR THE CONTRACT*

*TO BE ATTACHED TO THE STATEMENT

_____ _____

Name and Signature of Authorized Representative Date