

PHILIPPINE BIDDING DOCUMENTS

PROCUREMENT OF SYSTEMS INTEGRATION SERVICES FOR THE SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF THE NEA DIGITAL DASHBOARD COMMAND CENTER (DDCC) - PHASE 2

(NEA DDCC2-2024-01)

Government of the Republic of the Philippines

Sixth Edition

Preface

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

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

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

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

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

CDA - Cooperative Development Authority.

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

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

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

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

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

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

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

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid

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Section II. Instructions to Bidders

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1. Scope of Bid

The Procuring Entity, *NEA* wishes to receive Bids for the *Procurement of Systems Integration Services for the Supply, Delivery, Installation and Commissioning of the NEA Digital Dashboard Command Center (DDCC) – Phase 2* with identification number *NEA-DDCC2-2024-01*.

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for *GAA2024* in the amount of **₱90,637,116.49**.

- a. The source of funding is the Corporate Operating Budget.

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

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

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

The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.

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

6. Origin of Goods

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

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that:

- a. Subcontracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed twenty percent (20%) of the contracted Goods. .
- 7.2. The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.
- 7.3. Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

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

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within *ten (10) 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 the **BDS**.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in the **BDS**.

13. Bid and Payment Currencies

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

14. Bid Security

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

¹ In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

15. Sealing and Marking of Bids

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

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

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

16. Deadline for Submission of Bids

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

17. Opening and Preliminary Examination of Bids

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

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

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

18. Domestic Preference

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

19. Detailed Evaluation and Comparison of Bids

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

19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the

case maybe. In this case, the Bid Security as required by **ITB** Clause 14 shall be submitted for each lot or item separately.

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

19.4. The Project shall be awarded as follows:

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

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

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <p>a. <i>Systems Integration Services for the Supply, Delivery, Installation and Commissioning of the NEA Digital Dashboard Command Center (DDCC). In addition to the three initial pilot EC sites implemented in Phase 1, the platform will now proceed to the 2nd phase of the project that will deploy the NEA DDCC – EC SCADA Interface to collect relevant information from EC Supervisory Control and Data Acquisition (SCADA) systems and available supporting operations monitoring and financial systems of an additional sixty (60) ECs and consolidate and integrate this data with the NEA Digital Dashboard Solution, further enhancing NEA's capability to monitor, coordinate, and manage the ECs' performance effectively.</i></p> <p>b. completed within <i>ten (10) years</i> prior to the deadline for the submission and receipt of bids.</p>
7.1	<p><i>As a turnkey project, the winning bidder shall not subcontract on a full turnkey basis the entire scope of work of this project, or more than twenty percent (20%) of the contract value to a single vendor/supplier/SYSTEMS INTEGRATOR, and shall retain full and single accountability for all deliverables.</i></p>
12	<p>The price of the Goods shall be quoted DDP [<i>state place of destination</i>] or the applicable International Commercial Terms (INCOTERMS) for this Project.</p>
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <p>a. The amount of not less than ₱1,812,742.33, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</p> <p>b. The amount of not less than ₱4,531,855.82 if bid security is in Surety Bond.</p>
19.3	N/A
20.2	<i>PRC License for Licensed Engineers</i>
21.2	<i>Service Level Agreement and Non-Disclosure Agreement</i>

Section IV. General Conditions of Contract

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1. Scope of Contract

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

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

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

2. Advance Payment and Terms of Payment

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

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

3. Performance Security

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

4. Inspection and Tests

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

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

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Special Conditions of Contract

GCC Clause	
1	<p><i>[List here any additional requirements for the completion of this Contract. The following requirements and the corresponding provisions may be deleted, amended, or retained depending on its applicability to this Contract:]</i></p> <p>Delivery and Documents –</p> <p>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:</p> <p><i>[For Goods supplied from abroad, state:]</i> “The delivery terms applicable to the Contract are DDP delivered at <i>National Electrification Administration, Philippines</i>. In accordance with INCOTERMS.”</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered at <i>National Electrification Administration and 60 Electric Cooperatives</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is RODERICK N. PADUA.</p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

- e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
- f. *Other services indicated in the Terms of Reference.*

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:

1. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
2. in the event of termination of production of the spare parts:
 - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
 - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

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

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

Spare parts or components shall be supplied as promptly as possible, but in any case, within one or two 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.

Regular and Recurring Services –

“The contract for regular and recurring services shall be subject to a renewal whereby the performance evaluation of the service provider shall be conducted in accordance with Section VII. Technical specifications.”

2.2 “The terms of payment shall be as follows:

Refer to Section T of the TOR for the details

Particular	Required Documents (Deliverables)	Date of Submission	% of Payment
Sign-off of the Project Management Plan (including Project Implementation Plan) and NEA DDCC – Phase 2 Detailed System Design Document	<ol style="list-style-type: none">1. Project Management Plan and Detailed System Design Document (R.1 & R.2), including:<ol style="list-style-type: none">a. Project Implementation Planb. Quality Assurance Planc. Risk Management Pland. Cyber Security and Data Protection Strategy2. Sales Invoice/s or Billing Statement.3. Certification issued by the end-user.4. All documents that may be needed by NEA in support of and related to the Project Management and Detailed System Design Document, if any.	Refer to Gantt Chart	15%
Completion and acceptance of NEA Command Center Phase 2 Expansion Civil Works & Equipment (per	<ol style="list-style-type: none">1. Delivery Receipt with list and description of delivered items, materials to NEA.2. Sales Invoice/s or Billing Statement3. Inspection & Acceptance Report issued by NEA for	Refer to Gantt Chart	15%

Section E of this TOR)	<p>completion of NEA Command Center Phase 2 Civil Works as per Section E of this TOR</p> <p>4. Certification from NEA that the Civil Works have been completed.</p> <p>5. Engineering Documents approved</p>		
Delivery and installation of the EC side hardware, system software and NEA DDCC - EC interface software - components to all ECs	<p>1. Delivery Receipt/s with a list and description of delivered hardware and software to NEA and EC</p> <p>2. Sales Invoice/s or Billing Statement</p> <p>3. Inspection & Acceptance Report issued by NEA for delivered hardware/ software (prior to installation)</p> <p>4. Certification from NEA and EC that the hardware and software delivered are already installed</p>	Refer to Gantt Chart	35%
Completion of NEA and EC User Training	<p>1. Sales Invoice/s or Billing Statement</p> <p>2. NEA DDCC EC User Training documents (User and System Administration and Training Manual.</p> <p>3. Certification of attendance,</p> <p>4. Certification from NEA/EC for training conducted</p>	Refer to Gantt Chart	10%
Implementation of NEA DDCC – EC interfaces and completion of Interface - Acceptance Testing	<p>1. Sales Invoice/s or Billing Statement</p> <p>2. Certification from NEA and EC that Acceptance Testing of the NEA DDCC – EC interfaces has been completed and that the NEA DDCC – EC interfaces have been implemented at the NEA DDCC and particular EC concerned.</p>	Refer to Gantt Chart	15%

	3. Source Codes of any customized software developed by the winning bidder. 4. Inventory of software license/product key.		
Retention	Written Request from the Winning Bidder		10%
Total			100%
4	The inspections and tests that will be conducted are: Acceptance, EC Scada and AM HES API Testing		

Project Activity GANTT Chart

Project Activity / Task	# Days	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Project Management																										
Prepare Project Management Plan	5																									
Prepare Project Implementation Plan	5																									
Prepare Quality Assurance Plan	5																									
Prepare Risk Management Plan	5																									
Submit Project Plans & Secure Sign-off	10																									
Project Management & Control	60																									
NEA DDCC Renovation Works																										
Project Supervision	60																									
Site Safety	60																									
Mobilization and Demobilization	1																									
Construction of Temporary Facility	1																									
Temporary Lighting & Power	1																									
Demolition & Dismantling Works	7																									
Roughing-ins: Plumbing, Electrical, Mechanical	10																									
Installation of Flat Ceiling	10																									
Installation of Drywall and Masonry Partitions	10																									
Installation of Glass Walls and Doors	4																									
Painting of Ceiling, if any	10																									
Painting and Cladding of Walls	10																									
Tileworks	6																									
Installation of Built-in Furnitures	10																									
Installation of Electrical, Mechanical, Plumbing Fixtures	3																									
Delivery of Loose Furnitures & Equipment	2																									
Secure Sign-off for Command Center Civil Works & Equpt	5																									
NEA DDCC - EC System Development																										
Define/Confirm Requirements	5																									
Prepare Detailed System Design	10																									
Define Cyber Security and Data Protection Strategy	10																									
Submit Detailed System Design and secure sign-off	10																									
EC API Technical Support and Implementation	10																									
Conduct User Acceptance Testing and Secure Sign-off	5																									
Implementation																										
Install HW & SW (Staging Facility)	10																									
Develop Training Plan	10																									
Conduct NEA and EC User Training	60																									
Delivery & Installation of EC Side HW, System SW & NEA DDCC-EC Interface	66																									
Implementation of NEA DDCC-EC Interfaces & Completion of Interface Testing	60																									
Provide Implementation Support	60																									
Post Implementation																										
Set-up Help Desk	15																									
Perform Problem Reporting & Corrective Action	90																									
Provide Post Impln Support	60																									

Section VII. Technical Specifications

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Technical Specifications

Item	Specification	Statement of Compliance
1	Systems Integration Services (1 Lot)	
1.1	<p>Systems Integration Project Management</p> <p>Overall systems integration project management of the NEA DDCC Phase 2 project, including management of all Phase 2 project services and deliverables at both the NEA Command Center and all EC sites, as well as Project Planning and Control, provision of various project plans.</p>	
1.2	<p>NEA DDCC – EC SCADA Interface Software</p> <p>Provide a software facility to collect, send and consolidate data from SCADA and in-house systems of a total of sixty (60) Electric Cooperatives (ECs) and store this data in the central NEA EC Performance database to be processed and presented in NEA DDCC.</p>	
1.3	<p>NEA DDCC – EC API Technical Services</p> <p>Technical services to enable EC IT and SCADA/ Operations personnel to develop and implement the Application Program Interfaces (APIs) and/or extract programs needed to send data to the NEA DDCC from their SCADA and in-house systems</p>	
1.4	<p>Software Design & Specifications Services for NEA DDCC – AMI/HES APIs</p> <p>Provide a detailed software design and specifications for the Application Program Interface (API) software to send data to the NEA DDCC from an Advanced Metering-Infrastructure/Head End System (AMI/HES), aligned with the Solutions Architecture shown in Section D.1.5.</p> <p>Provide a detailed design and software enhancement of the NEA Dashboard software to receive and record data at the NEA DDCC end from the AMI/HES.</p> <p>The corresponding detailed design documentation shall include the following key components:</p> <ul style="list-style-type: none"> • Overview of the NEA Dashboard software enhancement including high-level software architecture diagram. • Outline of the key functions to be fulfilled by the software enhancement. • Specifications of the database changes and resulting data tables. • User interface screen designs <p>The NEA Dashboard software enhancement shall, at a minimum, include the following key features:</p> <ul style="list-style-type: none"> • Additional data tables to receive key data from the HES. • Recording of key consumption data per EC and EC consumer. • Priority AMI/HES event and alarms data recording 	

		<ul style="list-style-type: none"> • EC aggregate consumer billing data recording • Major AMI/HES outage event recording • Additional NEA Dashboard widgets to monitor and report on EC consumer major events and aggregate billing related data. <p>Provide detailed documentation of the software design and specifications for the API software and receiving software as well on the NEA DDCC side. This document shall also include the Cyber Security Plan outlining the policies, procedures, and practices that NEA will follow to ensure the confidentiality, integrity, and availability of its information systems and data</p>	
1.5	AMI/HES SaaS Facility Services	Provide services for and on behalf of NEA, to arrange for one or more third party AMI/HES Software as a Services (SaaS) facilities that may be separately and directly engaged by ECs in order to manage and operate their respective AMI systems.	
2.	NEA DDCC Training Services (1 Lot)		
	Training Plan	This shall include the overall goals and program implementation of the training, the methods which will be used to assess training effectiveness, description of the major training deliverables, and a brief outline on how those deliverables will be implemented.	
	Training organization plan	An outline of the planned project training organization and the staffing structure	
	Training administration plan	A description of the planned training administration package and tool that be used to schedule all training classes, notify participants, and track attendance through completion of the program.	
	Training facilities plan	A description of the plan for utilization of EC and/or NEA face-to-face training and/or online virtual training facilities.	
	Train-the-trainer services	Train-the-trainer sessions whereby supervisory or senior personnel attend and assume subsequent training roles	
3.	NATIONAL COMMAND CENTER - Expansion Civil Works (1 Lot)		
3.1	Scope of Work covering: <ul style="list-style-type: none"> • Extension of DDCC • Reception Area, • Toilet & Ante Room • Pantry • IT Room 	<ul style="list-style-type: none"> • Mobilization, demobilization and power interruption. • Supply and installation/laying of electrical roughing-ins; • Supply and installation of conduit, pipes and cable trays; • Supply and installation of electrical lightings, fixtures and accessories; • Supply and installation of electrical switches and its accessories; • Supply and installation of receptacle outlets and its accessories; • Supply and installation of enclosures, panel boards and circuit breakers; 	

	Refer to Appendix B for Diagram of additional Command Center Civil Works.	<ul style="list-style-type: none"> Supply and installation of electrical wires/cables, connectors, insulators and groundings. Supply and installation of flooring materials (carpet tiles, porcelain tiles). 	
3.2	Masonry	<ul style="list-style-type: none"> Concrete hollow blocks for interior walls unless otherwise indicated shall be 100 mm thick. For interior walls where plumbing pipes and fittings shall be located, the thickness shall be at least 150 mm. The concrete hollow block walls shall be laid, and the cells filled with the cement mortar consisting 1 part of Portland cement and 3 parts sand by volume. They shall be reinforced with round deformed bars with 10mm diameter, spaced not more than 0.80 on centers, both ways. All exposed surfaces of concrete hollow block walls shall be finished with the specified materials indicated on the elevation drawings. The mixture of cement plaster for concrete hollow block wall finished indicated in the drawing shall be 1 part cement, 1 part water and 3 parts sand. 	
3.3	Drywall	<ul style="list-style-type: none"> Type: Gypsum board, fire-rated where required. Thickness: 12.5mm for walls, 15mm for ceilings. Finish: smooth finish ready for painting Installation: Metal stud framing, screw-fixed 	
3.4	Flooring	<p>Digital Dashboard Command Center Expansion, Back Office, and Data Center</p> <ul style="list-style-type: none"> MATERIAL: Carpet Tiles SIZE: 500X500mm DESIGN: C09-previous supplier DESIGN: Floor Tile <p>Toilet and Ante Room</p> <ul style="list-style-type: none"> MATERIAL: Porcelain Tiles SIZE: 600X600mm DESIGN: Anti Slip Floor 	
3.5	Ceiling	<p>Toilet, Ante, Data Center, Back Office</p> <ul style="list-style-type: none"> Gypsum board ceiling and PVC ceiling panels Metal furring channels serve as the framework to which gypsum boards are attached. <p>DDCC and Reception Area</p> <ul style="list-style-type: none"> PVC Ceiling Panel PVC Ceiling Panel-V Groove Dimension: 7x180x2950mm 	

3.6	Wall Finishes	<ul style="list-style-type: none"> • Finish: Matte <p>Toilet</p> <ul style="list-style-type: none"> • Wall Tiles-(WF-1) <ul style="list-style-type: none"> ○ Wall Tile 30x60cm • WPC (Wood Plastic Composite) Fluted Panel & Bronze Curtain Panel <ul style="list-style-type: none"> ○ Pine Teak 9mmx155mmx2900mm ○ Bronze Curtain Panel- 9mmx300xmmx2900mm <p>Common Area Wall paper – same as the existing wall</p>	
	3.7	Ante Countertop and Undercounter Cabinet	<p>Ante Counter</p> <ul style="list-style-type: none"> • Polar White (modified acrylic resin) Solid Surface Material <p>Undercounter Cabinets</p> <ul style="list-style-type: none"> • Teak Color High Pressure Laminated Board
3.8	Glass Works and Frosted Sticker	<p>Data Center, Back Office, and DDCC Area</p> <ul style="list-style-type: none"> • 12mm Thick tempered frameless glass used u-channel • 2 way swing 12mm thick frameless glass door with transom glass on top <p>Toilet Mirror Panels</p> <ul style="list-style-type: none"> • 6MM Beveled Edges Mirror with Backlight 	
3.9	Signage	<p>Indoor Signage</p> <ul style="list-style-type: none"> • Acrylic material die cut, backlighted on metallic look vinyl sticker <p>Plaque Relocation Remove the plaque on the column and relocate in the drywall near main entrance of the facility.</p>	
3.10	Fixtures	<p>In the toilet, urinal, handwashing accessories use fixtures with high quality and internationally recognized certifications</p> <ul style="list-style-type: none"> • Water closets • Urinal • Lavatories • Soap holder • Toilet paper holder • Floor drain - Size 100mm x 100mm Stainless steel (List other materials if necessary) 	
3.11	Furniture	<p>Working table</p> <ul style="list-style-type: none"> • 4 pcs- 600x1200mm working table • 10 pcs – High-back Mesh Office Chair <p>Reception Table</p> <ul style="list-style-type: none"> • 1 Pc- Reception Table With Chair 	
3.12	Mechanical	<p>Airconditioning</p> <ul style="list-style-type: none"> • 1 unit of 2TR Inverter Type - Wall Mounted A (same brand as currently installed) • 2 units of 3 TR Inverter Type-Ceiling Cassette - RELOCATION ONLY 	

		<p>Ventilation and Exhaust System Toilet And Ante Room</p> <ul style="list-style-type: none"> • 12 Inches Ceiling Exhaust Fan • Power: 1100 Rpm • Wattage: 42w • Voltage: 230V/60Hz • Airflow: 220CHM 	
3.13	Electrical	<ul style="list-style-type: none"> • The electrical installation shall be done in accordance with the approved plans and under the direct supervision and control of a licensed Professional Electrical Engineer or Master Electrician. • All electric works and materials shall conform to the provisions of the latest edition of the Philippine or the National Electric Code. • The electrical wiring shall be installed thru coil able PVC electrical conduit fittings and appurtenances that conform to ISO dimensions. • Minimum size of wires shall be 2.0 mm² TW for switch and lighting line 3.5 mm² for power line in 12mm diameter PVC conduit. • Electrical materials to be used for the electric installation shall as follows: <ul style="list-style-type: none"> ○ Automatic Circuit breaker: ○ Flush wall switches, convenience Outlets other wiring devices ○ Wires/Conductors ○ Rose gold pin light case installed with 7W GU10 LED Bulb ○ single bulb area light 1200x50mm ○ 35w power supply led rope light warm white • The spare circuit shall be provided with an empty PVC pipe, size 19mm diameter which should extend at least 300mm above the ceiling line. The grounding wires shall be identified and all wires shall be color-coded for easy identification. • The panel board shall be provided with a circuit directory. 	
3.14	Plumbing	<ul style="list-style-type: none"> ○ All plumbing works for this project shall be in accordance with the approved plans and under the direct supervision and control of a licensed Sanitary Engineer or Master Plumber. ○ Piping shall be properly graded or pitched to ensure easy circulation, drainage and prevent water hammer and noise. ○ The plumbing installation shall conform to the provisions of the National Plumbing Code and the rules and regulations enforced in the locality. ○ Piping for drain, waste and vent shall be done using the uPVC push-on-system. 	

3.15		<ul style="list-style-type: none"> ○ For the in-house water supply installation, uPVC pipes and fittings shall be used. <p>Location of plumbing works:</p> <ul style="list-style-type: none"> ○ Toilet ○ Ante Room ○ Data Center & Back Office Aircon Drainage 	
	Generator Set	<ul style="list-style-type: none"> ○ Rated Power: 35 KVA ○ Rated Voltage: 230V ○ Frequency: 60 Hz ○ Silent Type <p>Genset with Automatic Transfer Switch</p> <ul style="list-style-type: none"> • Mobilization and demobilization of equipment and personnel for the installation process, including managing any necessary power interruptions. • Supply and installation of generator set foundation and mounting to ensure secure placement. • Installation of Automatic Transfer Switch (ATS) and associated wiring to facilitate seamless power transfer. • Connection of generator set to electrical panel and load circuits to provide backup power when needed. • Installation of necessary fuel lines and connections for the generator set. • Testing of the ATS and generator set to ensure proper functionality and integration with existing electrical systems. • Conducting load testing to verify the performance of the generator set under various conditions. • Providing training on generator set operation, maintenance, and ATS functionality to designated personnel. • Documentation of the installation process, including as-built drawings and operation manuals. • Final inspection to ensure compliance with specifications and safety standards before handover to the client. <p>Installation Requirements:</p> <ul style="list-style-type: none"> • Assessment of site conditions to determine the optimal placement of the generator set and ATS for safety and functionality. • Inspection of existing electrical infrastructure to assess compatibility and integration with the new equipment. • Planning for any necessary power interruptions to facilitate safe installation procedures. • Implementation of safety measures to protect personnel and property during the installation process. • Coordination with other trades or systems integrators working on the site to ensure seamless integration of the 	

3.16	Automatic Transfer Switch	<p>generator set and ATS into the overall project.</p> <ul style="list-style-type: none"> • Power Rating <ul style="list-style-type: none"> - Rated Power: 35 kVA - Voltage: 230V - Frequency: 60 Hz • Transfer Type <ul style="list-style-type: none"> - Closed Transition • Control Features <ul style="list-style-type: none"> - Manual and Automatic Mode - Voltage Sensing: Yes - Frequency Sensing: Yes - Delay on Transfer and Re-transfer: < 10 Seconds 	
3.17	Fire Suppression for DDCC, DDCC Extension & Data Center	<p>Functional Description</p> <ul style="list-style-type: none"> • Prepare a comprehensive design that includes system layout, gas quantity calculations, piping, and nozzle placements. • Supply all equipment and materials, including FM200 gas cylinders, valves, piping, nozzles, control panels, and detection systems. Install the system according to the approved design and manufacturer's guidelines. • Integration: Integrate the suppression system with existing fire detection and alarm systems, ensuring compatibility and proper operation. <p>Specifications</p> <ul style="list-style-type: none"> • Clean Agent: FM200 Agent / HFC-227ea (Heptafluoropropane) with certification from UL or FM. • Agent Quantity: Calculated based on room volume of the intended area to achieve a concentration in accordance with NFPA 2001 standards. • Cylinder Size and Quantity: Sufficient to cover the protected area volume with a 10% safety margin. • Control Panel: Single-zone fire suppression control panel with battery backup. • Detection System: Minimum of two smoke detectors installed at strategic locations within the room. Said system shall likewise provide interface to Building FDAS for remote annunciation • Nozzles: Distribution nozzles strategically placed to ensure even discharge and coverage throughout the room. • Piping: Galvanized steel or equivalent material sized for high-pressure release. • Alarm Devices: Visual and audible alarm units installed inside and outside the room to alert occupants in case of discharge. • System Bypass: Bypass release system to prevent 	

		<p>discharge of clean agent. Shall include audible and visible indicators to show when system is bypassed.</p> <ul style="list-style-type: none"> • System Override: Override release system to manually activate discharge of clean agent. Should come with double-action mechanism to prevent accidental activation. Override shall likewise have a visual indicator to show override has been activated. • Standards Compliance: NFPA 2001: Standard for Clean Agent Fire Extinguishing Systems. ISO 14520: Gaseous Fire-Extinguishing Systems – Physical Properties and System Design. • Local Fire Codes and Regulations: Compliance with all applicable local codes. • Location: The suppression system must be installed in a dedicated area where cylinders are accessible yet secure. • Electrical and Mechanical Integration: Ensure that all electrical connections (control panel, detectors, alarms) and mechanical fittings (piping, nozzles) are properly installed and comply with standards. • Testing and Handover: Conduct all required tests to validate system functionality and compliance with safety standards. 	
4.	COMMAND CENTER Expansion Video Wall Monitor (8 Units) (same brand as currently installed*)		
	Screen Size*	55"	
	Panel Technology	IPS	
	Back Light Type	Direct	
	Aspect Ratio	16:09	
	Native Resolution*	1,920 x 1,080 (FHD)	
	Refresh Rate*	60Hz	
	Brightness(Typ., nit)	500	
	Contrast Ratio	1,000:1	
	Dynamic CR	500,000:1	
	Color Gamut	NTSC 72%	
	Viewing Angle(H x V)	178 x 178	
	Color Depth	10bit, 1.07Billion colors	
	Response Time	8 ms (G to G)	
	Surface Treatment(Haze)	28%	
	Life time	60,000Hrs (Typ.) / 50,000Hrs (Min.)	

Operation Hours (Hours/Day)	24/7	
Portrait / Landscape	Yes / Yes	
Input	HDMI 2 (HDCP 2.2), DP (HDCP 2.2), DVI-D (HDCP 1.4), Audio In, RS-232C In, RJ45 (LAN), IR In, USB 2.0 Type A	
Output	DP Out (Input : HDMI / DVI / DP), Audio Out, RS-232C Out, RJ45 (LAN)	
Bezel Color*	Black	
Bezel Width*	B2B : 1.74mm (Panel Bezel to Panel Bezel), 1.3mm(T/L), 0.44mm(B/R) A2A : 2.49mm (Active area to Active area), 1.75mm(T/L), 0.74mm(B/R)	
Weight(Head)	18.8 Kg	
Packed Weight	31.0 Kg (when individual pallet applied)	
Monitor Dimension(W x H x D)	1,212.2 × 683.0 × 86.9 mm	
Carton Dimensions(W x H x D) (Box outer size)	1,353 x 855 x 263 mm	
Handle	Yes	
VESA™ Standard Mount Interface	600 x 400	
Internal Memory	8 GB,	
Sensor	(Temperature Sensor, BLU Sensor, Acceleration(Gyro) Sensor), Local Key Operation	
Software Compatibility*	webOS 4.1, Embedded CMS (Local Contents Scheduling, Group Manager), USB Plug & Play, Fail Over, Background Image (No Signal Image), Sync Mode (RS-232C Sync, Local Network Sync), Video Tag (4), Play via URL, Rotation (Screen Rotation, External Input Rotation), Gapless Playback, Tile Mode Setting (Max. 15 × 15), Setting Data Cloning, SNMP, ISM Method, Auto Set ID, Status Mailing, Control Manager, 3rd Party Compatibility (Crestron Connected@2)), Power (Smart Energy Saving, PM Mode, Wake on LAN, Network Ready), HDMI-CEC3), SI Server Setting, webRTC, Pro:Idiom, W/B Setting by Grey Scale, Scan Inversion	
Operation Temperature	0 °C to 40 °C	

	Operation Humidity	10% to 80%	
	Power Supply	AC 100-240V~, 50/60Hz	
	Power Type	Built-In Power	
	Minimum Consumption	200 W	
	Max Consumption	250 W	
	BTU (British Thermal Unit)	682 BTU/Hr(Typ.), 853 BTU/Hr(Max)	
	Smart Energy Saving	105 W	
	DPM	0.5W	
	Power off	0.5 W	
	Safety	CB / NRTL	
	EMC	FCC Class "B" / CE / KC	
	ErP	Yes (Energy Star 8.0 (EU Only))	
	OSD	English, French, German, Spanish, Italian, Korean , Chinese(Simplified), Chinese(Original), Portuguese(Brazil), Swedish, Finnish, Norwegian, Danish, Japanese, Russian, Portuguese (Europe), Dutch, Czech, Greek, Turkish, Arabic	
	ACCESSORY	Remote Controller(include battery 2ea), Power Cord, RS232C cable, Lan cable, DP cable, IR Receiver, Guide Bracket, Screws, Manual	
	IP Rating	IP5X tested	
	Videowall Bracket	<ul style="list-style-type: none"> • Push in Pop-out slim wall mount bracket • 6 points micro adjustment function • Material :2mm SPCC • With safe lock system 	
	Videowall Accessories	<ul style="list-style-type: none"> • Provide additional output cards to expand output capability of existing video controller • Provide additional input cards to expend input capability of existing video controller. • Provide wired HDMI connection of new display screens connecting to the existing video controller. • Provide wired HDMI connection of new workstations connecting to the existing video controller. 	
5.	COMMAND CENTER Expansion Workstation (4 Units)		
	Functional Description	<ul style="list-style-type: none"> • Workstations shall serve as the primary source of the video wall. • Workstation shall be capable of running the multiple application programs. • Workstations shall be capable of display mirroring • One workstation shall be allocated for videowall admin 	
5.1.	CPU (4 Units)		
	Form Factor	Tower	
	Processor	i9-12700 12C 2.10G 65W	
	GPU	T1000 4GB 4mDP GFX	

5.2	RAM	32GB (2x16GB) DDR5 4800 UDIMM NECC Mem		
	Operating System	Win 11 Pro 64 DG106		
	Adapter	Mini DP-to-DP Adapter		
	Keyboard	USB		
	Mouse	USB		
	Storage	1TB PCIe 2280 TLC M.2 SSD		
	Warranty	3/3/3 Warranty		
	Office Productivity Software	Microsoft Office lifetime (latest version)		
	Monitor (4 Units)			
	Display size	23.8"		
Display type	IPS			
Panel active area(inches)	20.75 x 11.67 in			
Panel active area(cms)	52.7 x 29.65 cm			
Brightness	300 nits			
Pixel Pitch	0.275 mm			
Input connector	1 VGA; 1 HDMI 1.4 (with HDCP support)			
5.3	Desktop UPS (4 Units)			
	Functional Description	UPS shall provide power to the workstations in the event of power outages and for protection of ICT equipment against power surges.		
	Technical Specification	<ul style="list-style-type: none"> • Branded and Brand New • At least 650VA voltage rating • Transfer time: Typical 2--6ms, 1 Oms max • Input <ul style="list-style-type: none"> ○ Voltage range: 162-290VAC, Single phase ○ Frequency range: 50Hz/60Hz automatic identification • Output <ul style="list-style-type: none"> ○ Voltage tolerance (Batt. Mode): Simulated sine wave at nominal voltage $\pm 10\%$ ○ Frequency range (Batt. Mode): 50Hz/60Hz automatic identification • System Features <ul style="list-style-type: none"> ○ Indicators: <ul style="list-style-type: none"> ▪ AC Mode: LED lighting ▪ Battery Mode: LED lighting ▪ Fault Solid: LED lighting ○ Protection: <ul style="list-style-type: none"> ▪ Discharge ▪ Overload ▪ Overcharge protection ▪ Fuse Protection: YES ○ At least two (2) years warranty on parts and service 		

		<ul style="list-style-type: none"> ○ Brand should be at least twenty (20) years on the market 	
5.4	Command Center Expansion - Workstation Chairs (4 Units)		
	Specifications	<ul style="list-style-type: none"> • High-back Leather Ergonomic Chair • 360° swivel • Chrome plated star-base 	
6.	Command Center Video Conferencing Equipment (2 Units)		
	Functional Description	Designed to facilitate remote communication by integrating high-quality video and audio capabilities. This equipment shall enable participants in different locations to engage in real-time, virtual face-to-face meetings.	
6.1	Video Conferencing - Camera		
	Resolution	Minimum 1080p Full HD (1920x1080), 30fps	
	Field of View (FOV)	80 degrees minimum	
	Pan/Tilt/Zoom (PTZ)	10x optical/digital zoom, motorized pan and tilt, with presets	
	Auto Framing	Automatic framing to focus on active speakers or groups	
	Low Light Performance	Integrated low-light correction technology	
	Mounting Options	Wall mount, tripod mount, and ceiling mount options	
6.2	Video Conferencing - Microphone		
	Microphone Pick-up Range	Minimum 15 feet (4.5 meters)	
	Audio Technology Features	Noise Reduction, Echo Cancellation	
	Connectivity	Bluetooth, Wi-Fi/NFC, USB-C/2.0, 2x Ethernet (10/100/1000 Mbps)	
	Protocols Supported	SIP, Webex, Microsoft Teams, Zoom, Skype for Business	
	Power Supply	Power over Ethernet (PoE)/AC power	
6.3	Video Conferencing - Speakers		
	Speaker Type	Integrated full-duplex speaker with echo cancellation	
	Audio Output	Minimum 10W RMS output with wideband audio	
	External Speaker Support	Line-out for external speaker connectivity	
7.	EC Side High End Workstation (60 Units)		
	Functional Description	Workstations shall serve repository of EC-specific performance management data, including data from EC SCADA systems and electricity distribution systems and reliability indices.	
7.1	CPU Specifications (60 units)		
	Form Factor	Tower	

7.2	Processor	i9-12700 12C 2.10G 65W	
	GPU	T1000 4GB 4mDP GFX	
	RAM	32GB (2x16GB) DDR5 4800 UDIMM NECC Mem	
	Operating System	Windows 11 Pro 64 DG106	
	Adapter	Mini DP-to-DP Adapter	
	Keyboard	USB	
	Mouse	USB	
	Storage	1TB PCIe 2280 TLC M.2 SSD	
	Warranty	3/3/3 Warranty	
	Office Productivity Software	Microsoft Office lifetime (latest version)	
8.	Monitor Specifications (60 Units)		
	Display size	23.8"	
	Display type	IPS	
	Panel active area(inches)	20.75 x 11.67 in	
	Panel active area(cms)	52.7 x 29.65 cm	
	Brightness	300 nits	
	Pixel Pitch	0.275.1.1	
	Input connector	1 VGA; 1 HDMI 1.4 (with HDCP support)	
9.	Workstation Software (60 Units)		
	Database Management Systems	Latest version of Microsoft SQL Server 2022, 2019 or higher Latest version of MySQL 8.0 or higher	
	Anti-Virus Software	Windows Defender (built-in for Windows 11) Clam AV (open-source antivirus)	
	Desktop UPS (60 Units)		
	Functional Description	<ul style="list-style-type: none"> UPS shall provide power to the workstations in the event of power for protection against power surges of ICT equipment. 	
	Technical Specification	<ul style="list-style-type: none"> Branded and Brand New At least 650VA voltage rating Transfer time: Typical 2--6ms, 1 Oms max Input <ul style="list-style-type: none"> Voltage range: 162-290VAC, Single phase Frequency range: 50Hz/60Hz automatic identification Output <ul style="list-style-type: none"> Voltage tolerance (Batt. Mode): Simulated sine wave at nominal voltage $\pm 10\%$ Frequency range (Batt. Mode): 50Hz/60Hz automatic identification System Features <ul style="list-style-type: none"> Indicators: <ul style="list-style-type: none"> AC Mode: LED lighting 	

		<ul style="list-style-type: none"> ▪ Battery Mode: LED lighting ▪ Fault Solid: LED lighting ○ Protection: <ul style="list-style-type: none"> ▪ Discharge ▪ Overload ▪ Overcharge protection ▪ Fuse Protection: YES ○ At least two (2) years warranty on parts and service ○ Brand should be at least twenty (20) years on the market 		
10.	EC Side Perimeter Firewall (60 Units)			
Appliance based services	The appliance-based security platform should provide Firewall, Application Visibility and Control, Advance Malware Protection, and IPS functionality in a single appliance from day one.			
Support for Active-Passive mode	The proposed solution should be capable to do Active-Passive mode.			
No. of Ports	The appliance should have at least 8 * 1G RJ45 Gigabit ports			
Support for Open Architecture	Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core CPUs to protect & scale against dynamic latest security threats.			
Required throughput	Firewall should support 880 Mps of NGFW (FW, AVC and IPS) throughput.			
Concurrent sessions supported	Firewall should support at least 100,000 concurrent sessions with application visibility turned on			
New connections supported	Firewall should support at least 6,000 new connections per second with application visibility turned on			
Support for Access-rules for IPv4, IP v6	Firewall should support creating access rules with IPv4 & IPv6 objects, users/groups, application, geolocation, URL, zones, VLAN, etc			
Support for multiple Nat functionalities	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality			
Trending capability for traffic and performance	Should have the capability of passively gathering information about virtual machine traffic, network hosts and their activities, such as operating system, services, open ports, client applications, and vulnerabilities, to assist with multiple activities, such as intrusion event data correlation, elimination of false positives, and policy compliance.			
IDS/IPS tuning	Should be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.) with minimal human intervention.			

11.	Automatic inspection for non-standard ports	Should be capable of automatically providing the appropriate inspections and protections for traffic sent over non-standard communications ports.		
	Support for end point quarantine integration	Should support the capability to quarantine end point by integrating with other security solution like Network Admission Control		
	Support for NBA Capability	Solution should support full-featured NBA capability to detect threats emerging from inside the network. This includes the ability to establish "normal" traffic baselines through flow analysis techniques (e.g., NetFlow) and the ability to detect deviations from normal baselines.		
	IP reputation feed provision	The solution must provide IP reputation feed that comprised of several regularly updated collections of poor reputation of IP addresses determined by the proposed security vendor		
	DNP3 and IEC60873 detectors	The solution should have application detectors for DNP3 and IEC 60870.		
	Preprocessor for Modbus and DNP3	The solution should provide preprocessors for the Modbus and Distributed Network Protocol (DNP3) SCADA protocols that you can configure.		
	Anomaly detection, decoding for DNP3 traffic	The DNP3 preprocessor should be able to detect anomalies in DNP3 traffic and decode the DNP3 protocol for processing by the rules engine. It should be able to validate the checksums contained in DNP3 link layer frames.		
	Support for SHA-256 malware detection	Should support the capability of providing network-based detection of malware by checking the disposition of unknown files using SHA-256 file-hash or signature as they transit the network and capability to do dynamic analysis		
	Web-based interface	The management platform must be accessible via a web-based interface and ideally with no need for additional client software		
	EC Side Audio Conferencing Equipment (60 Units)			
	Microphone Pick-up Range	Minimum 15 feet (4.5 meters)		
	Audio Technology Features	Noise Reduction, Echo Cancellation		
	Connectivity	Bluetooth, Wi-Fi/NFC, USB-C/2.0, 2x Ethernet (10/100/1000 Mbps)		
	Protocols Supported	SIP, Webex, Microsoft Teams, Zoom, Skype for Business		
Power Supply	Power over Ethernet (PoE)/AC power			

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

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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;**
 - a.1. Registration Certificate;
 - a.2. Mayor's/Business Permit or its Equivalent Document;
 - a.3. Tax Clearance

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

II. FINANCIAL COMPONENT ENVELOPE

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

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

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