



SUPPLY, DELIVERY, REHABILITATION AND COMMISSIONING OF FIRE SPRINKLER SYSTEM FOR PPA HEAD OFFICE

**BID DOCS
BAC-PGCS-161-2021**

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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.



INVITATION TO BID

**FOR THE SUPPLY, DELIVERY, REHABILITATION
AND COMMISSIONING OF FIRE SPRINKLER SYSTEM
FOR PPA HEAD OFFICE**

The Philippine Ports Authority, through the Corporate Budget of the Authority for CY 2021, intends to apply the sum of **P50,000,000.00** being the Approved Budget for the Contract (ABC) to payments under the contract for the Supply, Delivery, Rehabilitation and Commissioning of Fire Sprinkler System for PPA Head Office (BAC-PGCS-161-2021). 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 Services is required within One Hundred Twenty (120) calendar days from the receipt by the successful 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 **18 November 2021** 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 **02 December 2021 at 2:00 p.m.** at the PPA Function Room, 7th Floor, PPA Bldg., Bonifacio Drive, South Harbor, Port Area, Manila, and/or through video conferencing or webcasting via zoom, 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 **15 December 2021 at 9:00 a.m.** Late bids shall not be accepted.

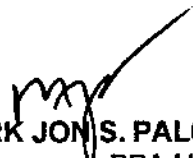
All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.

Bid opening shall be on **15 December 2021 at 10:00 a.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
PhilGEPS Website: www.philgeps.gov.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, Rehabilitation and Commissioning of Fire Sprinkler System for PPA Head Office, with identification number BAC-PGCS-161-2021.

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) 2021 in the amount of FIFTY MILLION PESOS (Php 50,000,000.00).

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	<p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> a. Contract for the Supply, Delivery, Installation and Commissioning of Sprinkler System. 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 <i>[Manila]</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than One Million Pesos (Php1,000,000.00), 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 Two Million Five Hundred Thousand Pesos (Php2,500,000.00) if bid security is in Surety Bond.
15	<p>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.</p> <p>All bid documents shall be book-bound 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.</p>
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	<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 <i>[indicate place of destination]</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 <i>[indicate place of destination]</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 Philippine Ports Authority-Head Office, Manila</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. Provision for a minimum of four (4) hours training to PPA Personnel for the use of the equipment. <p>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.</p> <p>Spare Parts –</p>

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 after the last day of manufacturing of the specific model.

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	<p>The terms of payment shall be as follows:</p> <ul style="list-style-type: none"> • 35% of contract cost – After completion of 35% of the sprinkler system. • 35% of contract cost – After completion of another 35% of the sprinkler system. • 30% of the contract cost – After full completion of the sprinkler system, inspection and acceptance by PPA Head Office.
4	<p>The inspections and tests that will be conducted are:</p> <ul style="list-style-type: none"> • The contractor shall conduct tests in the presence of inspector. • To remove foreign materials which may have entered the piping during installation of same flushing or underground connection is required before sprinkler piping is connected. • Hydrostatic Test: <ul style="list-style-type: none"> <input type="checkbox"/> Test pressure not less than 200 psi on system pressure plus 50 psig for two hours. <input type="checkbox"/> No visible leakage for inside sprinkler piping will be allowed. Fore underground mains and lead-ins, exceeding the exceeding the permissible leakage or joints necessary repair shall be made. <input type="checkbox"/> All control valve water pressure to insure proper operating test. Use clean, non-corrosive water <input type="checkbox"/> Fire connection shall be tested. • Testing of drainage facilities shall be made by opening the main drain valve while the control valve is wide open. • Test certificate shall be filled out and signed by the PPA's and Contractor's representative. System operations and maintenance chart shall be submitted to the PPA upon completion of the of the Contract. This shall include, among others, the locations of the control valves and care of the new equipment

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	Description¹	Quantity	Total	Delivered, Weeks/Months
	Supply, Delivery, Rehabilitation and Commissioning of Fire Sprinkler System for PPA Head Office			Within One Hundred Twenty (120) Calendar Days from receipt of the Notice to Proceed

¹ Subject to the Technical Specifications under Item No. 4 of the Terms of Reference

Section VII. Technical Specifications

Technical Specifications

Item	Specification	Statement of Compliance
		<p><i>[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</i></p>

		<i>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.]</i>
	SCOPE OF WORK	
	<p>Furnishing of all materials, labor, tools, equipment and accessories for the complete installation, testing and adjustment, ready for use of the proposed automatic fire sprinkler system.</p> <p>The work essentially shall include, but shall not necessarily be limited to the following items:</p> <ol style="list-style-type: none"> 1. Sprinkler System for all the floors in Head Office. 2. Fire Department connections, fire hose valves, roof manifolds and wet stand pipe system. 3. Fire Hose & Cabinets; pressure reducing valves, and accessories including connection to the Automatic Fire Sprinkler System. 4. Alarm Check valve complete with retardant chamber. Motor gong and bell and fire alarm system including accessories. 5. Fire and Jockey pumps to include controllers and accessories. 6. Inspect or test pipe nozzle and valves on the farthest point of each system. 7. Installation and supply of the floor control valves and water flow switches including connection of the electrical wiring up to the fire alarm box or electrical panel. 8. All opening through which fire may spread from one floor to the other, such as holes through floors made for the passage of plumbing pipes and electrical conduits shall be sealed with fire resistant materials. 	

	<p>9. Supply and installation of portable fire extinguishers, specifications, capacity and locations as reflected on plans unless otherwise specified.</p> <p>10. Tools and stock of spare sprinkler heads.</p> <p>11. Supply and installation of luminous fire evacuation plans and fire extinguisher signs, mounted on acrylic frames and to be placed on strategic locations.</p> <p>12. Priming and finish painting (red) of all exposed piping and all equipment except for the sprinkler heads.</p> <p>13. Complete testing of all Fire Protection system in accordance with NFPA-13 (Standard for the Installation of Sprinkler Systems).</p> <p>14. One-year warranty of trouble-free operations, tests and maintenance of complete work.</p> <p>15. Submission of as-built drawings in reproducible sheets including two (2) white print copies at no cost to PPA during contract implementation.</p> <p>16. Furnishing of operating diagram for pumps, valves, controllers during contract implementation.</p>							
	TECHNICAL SPECIFICATIONS							
	<p>1. SPRINKLER HEADS (1,266 UNITS)</p> <p>1.1 Type:</p> <p>Automatic standard 15mm diameter, orifice, solder fillet type or valve type, upright, pendant or sidewall heads. Pendant heads shall be provided with aluminum escutcheon or approved equivalent to fit into ceiling boards or ceiling runners. Flush or concealed type pendant units shall be accepted as substitute. Heads shall be UL Inc., approved, of one brand all throughout and shall be standard product of a reputable manufacturer.</p> <p>1.2 Head Rating & Type:</p> <table border="1"> <tr> <td>Kitchen/Pantry</td><td>175 to 225 – degree F</td><td>Chrome Plated</td></tr> <tr> <td>Office/Res'l</td><td>135 – degree F (for use in max. ceiling temperature of 100 – degree F)</td><td>Chrome Plated</td></tr> </table>	Kitchen/Pantry	175 to 225 – degree F	Chrome Plated	Office/Res'l	135 – degree F (for use in max. ceiling temperature of 100 – degree F)	Chrome Plated	
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	<table border="1"> <tr> <td>Parking Areas</td><td>- do -</td><td>Brass, wax Coated</td></tr> </table>	Parking Areas	- do -	Brass, wax Coated	
Parking Areas	- do -	Brass, wax Coated			
	<p>1.3 Pipe thread & Valve Seat – 15 diameter, nominal</p>				
	<p>2. FIRE HOSE CABINETS (21 UNITS)</p> <p>2.1 Hose and valve assembly shall be Underwriters Laboratories (UL) Listed or Factory Mutual (FM) approved</p> <p>Hose - 40mm dia., 30.0m Double Jacket, Rubber lined.</p> <p>Nozzle - combination fog and solid stream, 40mm dia., chrome plated.</p> <p>Rack - Semi-automatic, chrome plated</p> <p>Angle-type Pressure Reducing Valve - 40mm dia., chrome plated polished trim, 110m water pressure, provide with nipple and union patent, set at 70m. water pressure.</p> <p>Hose Nipple- for components, shall be chrome plated. Provide two (2) universal spanner wrenches</p> <p>2.2 Cabinet – full flush mounting door with anodized cal-colored aluminum for all glass plate, frame and box shall be No. 14-gauge steel with white interior and red exterior baked enamel finishes over primer.</p>				
	<p>3. FIRE DEPARTMENT CONNECTION (INLET)</p> <p>Two-way sidewalk inlet connections shall be 65 mm x 65 mm 150 mm, UL Listed or FM approved, vertical cast brass with plug spring check snoots, complete with plugs & chain and cast brass escutcheon lettered “Wet Standpipe” / “AFSS Standpipe” threads to suit integrated Metropolitan Fire Department specifications.</p>				
	<p>4. WALL HYDRANTS (FIRE HOSE VALVES)</p> <p>4.1 Threads and type of connection to match Integrated Metropolitan Fire Department requirements. UL Listed or FM Approved.</p>				

	<p>4.2 Type: Single outlet as shown on the plan, wall mounted.</p> <p>4.3 Finish: Polished brass</p> <p>4.4 Outlet shall have chain connected caps or plug.</p>	
	<p>5. ROOF MANIFOLD (OUTLET)</p> <p>5.1 Type: Twin angle valve outlet connections, with chain secured caps or plugs size, 65mm x 65mm 150mm. UL Listed or FM Approved.</p> <p>5.2 Threads and type of connection to match Integrated Metropolitan Fire Department requirements.</p> <p>5.3 Finish: Polished brass</p> <p>5.4 Outlet shall have chain connected caps or plug.</p>	
	<p>6. PIPINGS-GENERAL</p> <p>6.1 Black iron, schedule 40 pipes, American Society for Testing and Materials (ASTM) A-53 for pipes sizes 150mm dia., & above only (wet and dry)</p> <p>6.2 Black iron, schedule 40 pipes, ASTM A-120 for inside building installations (feed mains, cross mains and branch lines)</p> <p>6.3 All inside piping shall be installed by means of screwed or flanged fittings. Flanged joint shall be used at all sprinkler risers and provided with 1.6mm thick long fiber asbestos, cross laminated gasket "cranite".</p> <p>6.4 Torch cutting shall not be permitted as means of modifying or repairing sprinkler system.</p> <p>6.5 All welding shall be "shop welding" only and shall be done by electric arc welding process.</p>	
	<p>7. FITTINGS-GENERAL</p> <p>7.1 Sprinkler System fitting shall be extra heavy pattern. Whenever a change in pipe size is made, one piece of reducing / increaser fitting shall be used. Provide mechanical grooved couplings at each main feed</p>	

	<p>line of every floor just after the riser and along the ceiling line.</p> <p>7.2 All fittings shall be of malleable iron fittings.</p> <p>7.3 Steel pipe flangers mating with steel equipment flangers shall have the same facing as mating flange.</p> <p>7.4 Screwed union shall not be used on pipes larger than 50mm (2"). Couplings and unions of pipes other than screwed type shall be of types approved specifically for sprinkler used.</p>	
	<p>8. VALVES-GENERAL</p> <p>8.1 All valves shall be of the same manufacture for each class of piping and as such as possible, for the entire project. Valves shall permanently near affixed stamp or tag indicating manufacturer, catalog number, pressure and temperature ratings of gate valve, angle valves, check valves, pressure relief with all cast iron body with bronze trim.</p> <p>8.2 Furnish all valves and accessories material necessary for piping not shown on drawings as follows:</p> <p>8.2.1 Vents and drains for equipment to which piping connections are made.</p> <p>8.2.2 Connections to metering instruments and controls including pressure gauges, thermometer, controllers, traps and appurtenances required for proper functioning on instruments in controls.</p> <p>8.2.3 Temporary valves and accessories required for placing equipment into initial service.</p> <p>8.2.4 Piping 50mm (2") and smaller required for proper operation of piping system and equipment, including drain valves required to drain all low points in piping.</p> <p>8.3 Valve seats shall be renewable except for forged steel and high pressure cast steel valves where manufacturer's standard is integral seats.</p> <p>8.4 All valves shall be approved by Factory Manual and Underwriters Laboratories, Inc., (UL Listed).</p>	

	<p>8.5 Provide floor stand with flanged faces for bolting to floor or platforms and other special devices where specified or noted on drawings.</p> <p>8.6 Provide extension stems, universal joints stem guide bearings and other accessories required to locate floor stands in convenient location with interference with other equipment, piping or building parts.</p> <p>8.7 Floor control valves within the buildings shall be approved indicating wedge gate with electrical contact and which will open when valve is partially or totally put in close position.</p> <p>a. Check Valve b. Flow Control Valves</p> <p><u>Specifications</u></p> <ul style="list-style-type: none"> • 300 PSI Grooved End Butterfly Valve • NSF Certified Polymide Coated Ductile Iron Body • Elestomer Encapsulated Disc • Extended Neck • UL Listed FM Approved Type • Stainless Steel ASTM 276 Type 420 upper stem • PTFE Bronze Sintered on Steel Upper Body • Disc Ductile Iron ASTM 536 with EPDM Encaptulation <p>c. Pressure Release Valve</p> <p><u>Specifications</u></p> <ul style="list-style-type: none"> • No Moving Mechanical Parts that provides a fast and accurate response to small pressure changes, and maintains the upstream system pressure within a close limit. • Pressure rating to 300 psi (21 bar) for standard material • valve. • Emergency Release Valve, Strainer, Shutoff Valve, and • Check Valve are standard items. • Epoxy coating supplied as standard ensures excellent corrosion resistance. <p><u>Materials</u></p>	
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	<ul style="list-style-type: none"> • Coating • Standard • Valve Housing: • Carbon Steel (SAE 1021). • Valve Ends: • Ductile Iron (ASTM A536-65 45 12). • Sleeve: • SMR5 Elastomer reinforced with Poly-ester and Kevlar. • Control Trim: • Brass Nickel Chrome plated, Stainless Steel AISI 304. 	
	<p>9. SWAY BRACES, HANGER & SUPPORTS</p> <p>9.1 Sway Bracing: Steel flat bars, structural grade 7mm minimum thickness, with corrosion protection; shape / type as shown on plans.</p> <p>9.2 Pipe Hangers: Steel flat bars, structural grade 7mm minimum thickness, with corrosion protection, shape as shown on plans and 13mm dia., bars with corrosion protection as shown on plans.</p> <p>9.3 Sway Bracings Installation.</p> <p>9.3.1 Adequate sway bracing shall be provided to oppose longitudinal or transverse pipe movements.</p> <p>9.3.2 Lateral bracings shall withstand a force equal to 50% of the weight of the water contained in piping, valves and fittings.</p> <p>9.3.3 Piping anchorages shall not be secured on two (2) dissimilar parts of the building which will move differently.</p> <p>9.4 Hangers Installation.</p> <p>9.4.1 Approved inserts may be used for the support of hangers, anchorages in concrete. Expansion shield should be used in a horizontal position on the sides of concrete beams and shall be above the bottom reinforcements.</p> <p>9.4.2 Increaser couplings shall be attached immediately adjacent to the expansion shield.</p>	

	<p>9.4.3 When pipes 100mm dia., and larger are supported in the vertical position, the supports shall be at a minimum spacing of 3.0 meters (10') on center. Holes in concrete for expansion shield shall be made of the proper size and depth, as specified for the type of shield used, to provide a uniform contact with the shield its entire length and circumference.</p> <p>9.4.4 Maximum distance between hangers shall be 3.65 meters (12') for size 25mm (1'). Provide at least one hanger for each length of branch line, one between each two cross main branches, one hanger for each 4.75 meters (15') length of feed mains. The distance between the hanger and the center line of upright sprinkler shall be not less than 76mm (3").</p> <p>9.5 Support on Risers.</p> <p>Risers shall be adequately supported either by attachments directly to the riser or by hangers located on the horizontal's connections close to the risers. Supports shall be provided at the ground level and at each third level and at the top most level of the riser.</p>	
	<p>10. PIPE SLEEVES</p> <p>10.1 MATERIALS</p> <p>10.1.1 Through footings – cast iron</p> <p>10.1.2 Below Grade – cast iron or standard weight iron pipe</p> <p>10.1.3 Above Grade – steel pipe</p> <p>10.2 INSTALLATION</p> <p>10.2.1 Minimum clearance between the pipe and sleeve shall not be less than 25mm. (1") for pipes, 25mm, (1") to 89mm. (3-1/2") and 50mm. (2") clearance for pipes 100mm. (4") and larger. The clearance between pipes and sleeves shall be filled with non-combustible flexible materials such as asbestos rope and furnished with semi-hardening mastic flush.</p>	

	<p>10.2.2 Floor sleeves shall extend at least 76mm. (3") above the top of the wearing surface.</p> <p>10.2.3 Drains, fire department connections, test manifolds and other auxiliary piping connection to risers shall not be cemented into walls or floors.</p>	
	<p>11. PIPE PAINTING</p> <p>11.1 Sprinkler heads, valve stems and the like shall not be painted.</p> <p>11.2 After installation and test and before the installation of ceiling fixtures or boards, all piping shall be prime painted and coated with two coats of gloss red quick drying enamel.</p>	
	<p>12. ALARM CHECK VALVES</p> <p>12.1 The alarm assemblies shall be constructed and installed, that any flow of water from the sprinkler system equal to or greater than from a single automatic sprinkler head, will result in an audible and visual alarm bells whether water or electrically actuated shall be capable of being actuated both automatically and annually. Alarm check valve shall be UL Listed / or FM Approved.</p> <p>12.2 The water actuated alarm check valve assembly shall be complete with all the necessary attachments required to give an alarm and ease in maintenance.</p> <p>The gong shall be installed as indicated in the plans. The alarm check valve shall consist of but not limited to the following:</p> <p>12.2.1 Retard chamber 12.2.2 Water motor 12.2.3 Weatherproof gong 12.2.4 Strainer 12.2.5 Pressure gauges 12.2.6 Drain and attachments 12.2.7 Electrically supervised control valves 12.2.8 Pressure switch</p>	
	<p>13. FLOOR CONTROL VALVES & WATER FLOW SWITCHES OR DETECTORS</p>	

	<p>13.1 Flow alarm valves with sizes indicated on the plans shall be provided with two (2) N.O. electrical contacts that will close instantaneously with steady flow of water in the pipe and shall be complete with tamperproof terminal chamber with minimum of ½" dia. conduit. False alarm shall be prevented by an adjustable pneumatic device to retard the flow switch operation due to water surges. The switch shall be actuated only by a unidirectional flow of water. Electrical connections from these valves shall be done by the Electrical Contractors.</p> <p>13.2 The alarm apparatus shall be substantially supported, located and installed so that all parts shall be readily accessible for inspection, removal and repair.</p> <p>13.3 An actual water flow, through the use of the test connection, shall be employed to test the operation of the sprinkler alarm units in each floor or as whole.</p>	
	<p>14. ALARM AND SUPERVISORY SYSTEM</p> <p>The supervisory and alarm system shall be integrated with the building Fire Alarm System. The Fire Alarm System annunciator shall indicate the flow valves, and the valves, and the valve supervisory switches.</p>	
	<p>15. MARKERS, INSTRUCTION & IDENTIFICATION SIGNBOARD</p> <p>These signboards shall be made of gauge No.14 black iron sheet with baked enamel finish and letter instruction as shown on the plans. Additional signboards shall be mounted on the unobstructed for easy identification reading. Paints shall be basically gloss fire red and white.</p>	
	<p>16. PUMPS</p> <p>16.1 GENERAL</p> <p>16.1.1 Manufacturer's installation diagram shall be submitted together with the proposal. After installation is completed as "as-installed" drawing showing all the field revisions and exact locations/dimensions on the reproducible form plus two (2) white print</p>	

	<p>copies shall be submitted to the PPA at the Contractor's Expense.</p> <p>16.1.2 Pump performances curves (Technical Data Sheet or Brochure) shall be submitted together with the proposal. The pump efficiencies at various work loads shall be indicated thereon and properly marked.</p> <p>16.1.3 Test run shall be performed by the supplier after installation is completed, to demonstrate conformity to the manufacturer's specifications. A successful test shall be a condition to the PPA's acceptance of the installed equipment and to final payment.</p> <p>16.1.4 A direct statement on the availability of spare parts and maintenance service from pump supplier, for the period of at least (3) years reckoned from the date of acceptance test shall be submitted.</p> <p>16.2 FIRE PUMP</p> <p>16.2.1 Electrical Fire Pump</p> <p>The fire pump shall be Electric Motor Driven horizontal split case, multi-stage, electric motor and pump shall be mounted on a common base. Pump suction shall be provided with stainless steel strainer and vortex plate as required under NFPA-20. The pump shall be supplied with all accessories to include controllers, circuit breakers, starters, trims and other accessories to complete the works:</p> <p>A. Conditions of service</p> <ol style="list-style-type: none"> 1. Flow: 750 USgpm (170 m3/h) 2. Pressure rated: 100 psi 3. Speed: 3560 rpm 4. Suction pressure: 0 psi 5. Impeller diameter: 7.8125 6. Shutoff head: 114 psi 7. Elevation: 300 ft 8. Temperature: 77° F 9. Fire pump configuration 10. Pump 11. Materials of construction: Bronze fitted with Cast Iron casing 12. Pump rotation: Right handed 	
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	<ol style="list-style-type: none"> 13. Flange rating (Suction/Discharge): (Suction 5 / Discharge 4) 125/125 LB 14. Pump base: Steel bent form base 15. Pump shaft material: Carbon Steel AISI C1045 16. Casing relief valve: UL listed & FM approved, Cla-Val 17. Testing 18. Engineering Tests 19. Certified performance test is included <p>B. Fire Pump Configuration</p> <p>Pump</p> <ol style="list-style-type: none"> 1. Materials of construction: Bronze fitted with Cast Iron casing 2. Pump rotation: Right handed 3. Flange rating (Suction/Discharge): (Suction 4 / Discharge 3) 125/125 LB 4. Pump base: Steel bent form base 5. Pump shaft material: Carbon Steel AISI C1045 6. Casing relief valve: UL listed & FM approved, Cla-Val 7. Testing 8. Engineering Tests 9. Certified performance test is included <p>Pump Unit Major Accessories</p> <ol style="list-style-type: none"> 1. Circulation relief valve 100 mmØ 2. Vertical suction shaft with foot valve & strainer / stainless 3. Testing hose valve manifold 4. Flow measuring device 5. Relief valve and discharge cone 6. Primary connection 7. Capacity plate 8. Automatic air released valve fitting 9. Water level testing device and piping 10. Pressure gauge, 80 mmØ 11. Mercoid / pressure switched <p>Electrical Motor Drive</p> <p>1 Driver Driver type</p>	
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	<p>Motor: Special Motor - Selected parameters: 75 HP, 3560 RPM, 3/60/230, ODP, Wye-Delta-Open</p> <p>16.2.2 Jockey Pump</p> <p>One (1) set –Vertical In-Line multi-stage jockey pump Rated to deliver 20 GPM against 101 PSI cast iron construction stainless steel shaft and impeller driven by 3HP electric motor, 230Volts, 3Ø, 3500rpm, 60hz. with CONTROLLER UL Listed and FM approved Jockey pump controller, Direct on line controller with complete standard features in NEMA-2 STD enclosure.</p> <p>16.2.3 Fire Pump Controllers</p> <p>Fire pump controller</p> <ul style="list-style-type: none"> ➤ Fire pump controller: Wye-Delta-Open, 230V, 3Phase, 60Hz, 50 HP - ➤ Transfer Switch: No <p>Fire pump controller - alarm and indicators</p> <p>Standard status LED's</p> <ul style="list-style-type: none"> ➤ Power on ➤ Pump running ➤ Local start ➤ Remote start ➤ Deluge valve ➤ Emergency start ➤ Interlock on ➤ Low pressure ➤ Auto shutdown enabled <p>Standard alarm LED's</p> <ul style="list-style-type: none"> ➤ Phase reversal ➤ Phase failure ➤ Fail to start ➤ Undervoltage ➤ Overvoltage ➤ Low room temperature ➤ Locked rotor trip ➤ Low suction pressure ➤ Source 2 disconnected <p>Standard output relays</p>	
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	<ul style="list-style-type: none"> ➤ Startup ➤ Acceleration ➤ Phase failure ➤ Phase reversal ➤ Common alarm ➤ Pump running ➤ Future 1 <p>Fire pump controller - additional option selections</p> <p>Enclosure: NEMA 2 - Standard</p> <p>Withstand rating: Standard withstand rating, 100,000 Amps</p> <p>Space heater: No</p> <p>Pressure transducer: 300 PSI for fresh water</p> <p>Pressure transducer mounting: Externally mounted</p> <p>Language: English</p> <p>Floor Stand: 18" height</p> <p>16.2.4 Pump Sequence Operation</p> <p>Adjust pressure switches to control the fire pump operation in the following sequence:</p> <table border="1"> <thead> <tr> <th>Pump</th><th>Pump on</th><th>Pump off</th></tr> </thead> <tbody> <tr> <td>1. Jockey Pump</td><td>95 psi</td><td>105 psi</td></tr> <tr> <td>2. Electric Fire Pump</td><td>65 psi</td><td>manual</td></tr> </tbody> </table>	Pump	Pump on	Pump off	1. Jockey Pump	95 psi	105 psi	2. Electric Fire Pump	65 psi	manual	
Pump	Pump on	Pump off									
1. Jockey Pump	95 psi	105 psi									
2. Electric Fire Pump	65 psi	manual									
	OTHER REQUIREMENTS										
	<p>1. The winning bidder shall prepare and submit for approval the following:</p> <ul style="list-style-type: none"> • Dimensional layout of all pumping system, fire hose cabinet connections etc. • List of miscellaneous proposed, including pipe, fittings, valves, etc. and manhole accessories, identifying manufacturer and type. • Field test reports 										
	2. The specific brand/model unit being offered must be covered by a Brochure or Technical Data Sheet of the										

	<p>Fire Sprinkler System to be submitted together with the Technical Proposal:</p> <ul style="list-style-type: none"> • Manufacturer's catalog, sheets, marked as necessary to indicate materials or equipment being furnished for the following items: <ul style="list-style-type: none"> a. Pumps b. Controls and pump controller c. Pressure relief and reducing valves d. Mechanical grooved coupling and flexible connectors e. Fire department connection (inlet & outlet), hose valves, hose header and hose cabinets f. Sprinkler heads g. Riser supports and sleeves 	
	3. Include coverage of preventive maintenance of the system for one (1) year.	
	<p>4. The design, supply, rehabilitation, commissioning and testing of the entire sprinkler system shall conform to the following:</p> <ul style="list-style-type: none"> 1. Fire Code of the Philippines 2. NFPA No. 13 – latest edition (Standard for the Installation of Sprinkler Systems) NFPA No. 10 – latest edition (Standard for Portable Fire Extinguisher) NFPA No. 14 – latest edition (Standard for the Installation of Standpipe and Hose Systems) NFPA No. 80 – latest edition (Standard for Fire Doors & Other Opening Protectives) NFPA No. 75 – latest edition (Standard for the Fire Protection of Information Technology Equipment) NFPA No. 18 – latest edition (National Fire Code) (Standard on Wetting Agents) 3. Uniform Plumbing Code of the Philippines 4. Fire Department ordinances of concerned city and municipality 	
	5. All construction permit and fees required for the work shall be obtained by and at the expenses of the Contractor. The Contractor shall furnish the Architect, the Engineer and the PPA final certificates of	

	inspection and approval from the proper government authorities after the completion of the work.	
	6. The Contractor shall obtain all necessary allowances, pay royalties, etc. in connection with the use of any patented device or system and shall save PPA harmless from any claim or lawsuit arising from such use.	
	TRAINING The winning bidder must provide a minimum of four (4) hours training to PPA Personnel for the use of the equipment.	
	WARRANTY	
	<ul style="list-style-type: none"> • One (1) year warranty for manufacturing defects from the date of receipt of the Certificate of Acceptance. The winning bidder shall guarantee that the installed sprinkler system complies with the requirements of the authorities and free from all defective workmanship and materials (including spare parts) and will remain so, for a period of one (1) year from the date of final inspection and acceptance of the work. Any defect appearing within one (1) year shall be corrected by the winning bidder at no additional cost to the PPA. • If the Fire Sprinkler System is malfunctioning and inoperable despite the phone supported troubleshooting, the winning bidder shall provide maintenance service to the site within seventy-two (72) hours after notification at no cost to PPA. 	
	TESTING 1. The contractor shall conduct tests in the presence of the inspection; 2. To remove foreign materials which may have entered the piping during installation of same flushing or underground connection is required before sprinkler piping is connected.	

	<p>3. Hydrostatic Test:</p> <ul style="list-style-type: none"> • Test pressure not less than 200 psi on system pressure plus 50 psig for two hours. • No visible leakage for inside sprinkler piping will be allowed. For underground mains and lead-ins, exceeding the exceeding the permissible leakage or joints necessary repair shall be made. • All control valve water pressure to insure proper operating test. Use clean, non-corrosive water • Fire connection shall be tested. <p>4. Testing of drainage facilities shall be made by opening the main drain valve while the control valve is wide open.</p> <p>5. Test certificate shall be filled out and signed by the PPA's and Contractor's representative. System operations and maintenance chart shall be submitted to the PPA upon completion of the of the Contract. This shall include, among others, the locations of the control valves and care of the new equipment</p>	
	<p>All other provisions stated in the Terms of Reference not indicated herein.</p>	

TERMS OF REFERENCE

SUPPLY, DELIVERY, REHABILITATION AND COMMISSIONING OF FIRE SPRINKLER SYSTEM FOR PPA HEAD OFFICE

This Terms of Reference (TOR) provides the technical description and other terms and conditions for the Supply, Delivery, Rehabilitation and Commissioning of Fire Sprinkler System for PPA Head Office.

1. OBJECTIVES

The PPA aims to procure a Fire Sprinkler System for the PPA Head Office to ensure the safety and security of the employees and clients and to comply with the Fire Code of the Philippines.

2. SCOPE OF WORK

Furnishing of all materials, labor, tools, equipment and accessories for the complete installation, testing and adjustment, ready for use of the proposed automatic fire sprinkler system.

The work essentially shall include, but shall not necessarily be limited to the following items:

- 2.1 Sprinkler System for all the floors in Head Office.
- 2.2 Fire Department connections, fire hose valves, roof manifolds and wet stand pipe system.
- 2.3 Fire Hose & Cabinets; pressure reducing valves, and accessories including connection to the Automatic Fire Sprinkler System.
- 2.4 Alarm Check valve complete with retardant chamber. Motor gong and bell and fire alarm system including accessories.
- 2.5 Fire and Jockey pumps to include controllers and accessories.
- 2.6 Inspect or test pipe nozzle and valves on the farthest point of each system.
- 2.7 Installation and supply of the floor control valves and water flow switches including connection of the electrical wiring up to the fire alarm box or electrical panel.
- 2.8 All opening through which fire may spread from one floor to the other, such as holes through floors made for the passage of plumbing pipes and electrical conduits shall be sealed with fire resistant materials.
- 2.9 Supply and installation of portable fire extinguishers, specifications, capacity and locations as reflected on plans unless otherwise specified.
- 2.10 Tools and stock of spare sprinkler heads.

- 2.11 Supply and installation of luminous fire evacuation plans and fire extinguisher signs, mounted on acrylic frames and to be placed on strategic locations.
- 2.12 Priming and finish painting (red) of all exposed piping and all equipment except for the sprinkler heads.
- 2.13 Complete testing of all Fire Protection system in accordance with NFPA-13 (Standard for the Installation of Sprinkler Systems).
- 2.14 One-year warranty of trouble-free operations, tests and maintenance of complete work.
- 2.15 Submission of as-built drawings in reproducible sheets including two (2) white print copies at no cost to PPA during contract implementation.
- 2.16 Furnishing of operating diagram for pumps, valves, controllers during contract implementation.

3. APPROVED BUDGET FOR THE CONTRACT

The Approved Budget for the Contract is **FIFTY MILLION PESOS (Php 50,000,000.00).**

4. TECHNICAL SPECIFICATIONS

4.1 SPRINKLER HEADS (1,266 UNITS)

4.1.1 Type:

Automatic standard 15mm diameter, orifice, solder fillet type or valve type, upright, pendant or sidewall heads. Pendant heads shall be provided with aluminum escutcheon or approved equivalent to fit into ceiling boards or ceiling runners. Flush or concealed type pendant units shall be accepted as substitute. Heads shall be UL Inc., approved, of one brand all throughout and shall be standard product of a reputable manufacturer.

4.1.2 Head Rating & Type:

Kitchen / Pantry	175 to 225-degree F	-	Chrome Plated
Office / Res'l	135-degree F (for use in max. ceiling temperature of 100-degree F)	-	Chrome Plated
Parking Areas	- do -	-	Brass, wax Coated

4.1.3 Pipe thread & Valve Seat – 15 diameter, nominal

4.2 FIRE HOSE CABINETS (21 UNITS)

4.2.1 Hose and valve assembly shall be Underwriters Laboratories (UL) Listed or Factory Mutual (FM) approved

Hose - 40mm dia., 30.0m Double Jacket, Rubber lined.

Nozzle - combination fog and solid stream, 40mm dia., chrome plated.

Rack - Semi-automatic, chrome plated

Angle-type Pressure Reducing Valve- 40mm dia., chrome plated polished trim, 110m water pressure, provide with nipple and union patent, set at 70m. water pressure.

Hose Nipple - for components, shall be chrome plated. Provide two (2) universal spanner wrenches

4.2.2 Cabinet – full flush mounting door with anodized cal-colored aluminum for all glass plate, frame and box shall be No. 14-gauge steel with white interior and red exterior baked enamel finishes over primer.

4.3 FIRE DEPARTMENT CONNECTION (INLET)

Two-way sidewalk inlet connections shall be 65 mm x 65 mm 150 mm, UL Listed or FM approved, vertical cast brass with plug spring check snoots, complete with plugs & chain and cast brass escutcheon lettered "Wet Standpipe" / "AFSS Standpipe" threads to suit integrated Metropolitan Fire Department specifications.

4.4 WALL HYDRANTS (FIRE HOSE VALVES)

4.4.1 Threads and type of connection to match Integrated Metropolitan Fire Department requirements. UL Listed or FM Approved.

4.4.2 Type: Single outlet as shown on the plan, wall mounted.

4.4.3 Finish: Polished brass

4.4.4 Outlet shall have chain connected caps or plug.

4.5 ROOF MANIFOLD (OUTLET)

- 4.5.1 Type: Twin angle valve outlet connections, with chain secured caps or plugs size, 65mm x 65mm 150mm. UL Listed or FM Approved.
- 4.5.2 Threads and type of connection to match Integrated Metropolitan Fire Department requirements.
- 4.5.3 Finish: Polished brass
- 4.5.4 Outlet shall have chain connected caps or plug.

4.6 PIPINGS-GENERAL

- 4.6.1 Black iron, schedule 40 pipes, American Society for Testing and Materials (ASTM) A-53 for pipes sizes 150mm dia., & above only (wet and dry)
- 4.6.2 Black iron, schedule 40 pipes, ASTM A-120 for inside building installations (feed mains, cross mains and branch lines)
- 4.6.3 All inside piping shall be installed by means of screwed or flanged fittings. Flanged joint shall be used at all sprinkler risers and provided with 1.6mm thick long fiber asbestos, cross laminated gasket "cranite".
- 4.6.4 Torch cutting shall not be permitted as means of modifying or repairing sprinkler system.
- 4.6.5 All welding shall be "shop welding" only and shall be done by electric arc welding process.

4.7 FITTINGS-GENERAL

- 4.7.1 Sprinkler System fitting shall be extra heavy pattern. Whenever a change in pipe size is made, one piece of reducing / increaser fitting shall be used. Provide mechanical grooved couplings at each main feed line of every floor just after the riser and along the ceiling line.
- 4.7.2 All fittings shall be of malleable iron fittings.
- 4.7.3 Steel pipe flangers mating with steel equipment flangers shall have the same facing as mating flange.

- 4.7.4 Screwed union shall not be used on pipes larger than 50mm (2"). Couplings and unions of pipes other than screwed type shall be of types approved specifically for sprinkler used.

4.8 VALVES-GENERAL

- 4.8.1 All valves shall be of the same manufacture for each class of piping and as such as possible, for the entire project. Valves shall permanently near affixed stamp or tag indicating manufacturer, catalog number, pressure and temperature ratings of gate valve, angle valves, check valves, pressure relief with all cast iron body with bronze trim.
- 4.8.2 Furnish all valves and accessories material necessary for piping not shown on drawings as follows:
- 4.8.2.1 Vents and drains for equipment to which piping connections are made.
- 4.8.2.2 Connections to metering instruments and controls including pressure gauges, thermometer, controllers, traps and appurtenances required for proper functioning on instruments in controls.
- 4.8.2.3 Temporary valves and accessories required for placing equipment into initial service.
- 4.8.2.4 Piping 50mm (2") and smaller required for proper operation of piping system and equipment, including drain valves required to drain all low points in piping.
- 4.8.3 Valve seats shall be renewable except for forged steel and high pressure cast steel valves where manufacturer's standard is integral seats.
- 4.8.4 All valves shall be approved by Factory Manual and Underwriters Laboratories, Inc., (UL Listed).
- 4.8.5 Provide floor stand with flanged faces for bolting to floor or platforms and other special devices where specified or noted on drawings.

4.8.6 Provide extension stems, universal joints stem guide bearings and other accessories required to locate floor stands in convenient location with interference with other equipment, piping or building parts.

4.8.7 Floor control valves within the buildings shall be approved indicating wedge gate with electrical contact and which will open when valve is partially or totally put in close position.

- a. Check Valve
- b. Flow Control Valves

Specifications

- 300 PSI Grooved End Butterfly Valve
- NSF Certified Polyimide Coated Ductile Iron Body
- Elastomer Encapsulated Disc
- Extended Neck
- UL Listed FM Approved Type
- Stainless Steel ASTM 276 Type 420 upper stem
- PTFE Bronze Sintered on Steel Upper Body
- Disc Ductile Iron ASTM 536 with EPDM Encapsulation

- c. Pressure Release Valve

Specifications

- No Moving Mechanical Parts that provides a fast and accurate response to small pressure changes, and maintains the upstream system pressure within a close limit.
- Pressure rating to 300 psi (21 bar) for standard material
- valve.
- Emergency Release Valve, Strainer, Shutoff Valve, and
- Check Valve are standard items.
- Epoxy coating supplied as standard ensures excellent corrosion resistance.

Materials

- Coating
- Standard
- Valve Housing:
- Carbon Steel (SAE 1021).
- Valve Ends:
- Ductile Iron (ASTM A536-65 45 12).
- Sleeve:

- SMR5 Elastomer reinforced with Poly-ester and Kevlar.
- Control Trim:
- Brass Nickel Chrome plated, Stainless Steel AISI 304.

4.9 SWAY BRACES, HANGER & SUPPORTS

4.9.1 Sway Bracing: Steel flat bars, structural grade 7mm minimum thickness, with corrosion protection; shape / type as shown on plans.

4.9.2 Pipe Hangers: Steel flat bars, structural grade 7mm minimum thickness, with corrosion protection, shape as shown on plans and 13mm dia., bars with corrosion protection as shown on plans.

4.9.3 Sway Bracings Installation.

4.9.3.1 Adequate sway bracing shall be provided to oppose longitudinal or transverse pipe movements.

4.9.3.2 Lateral bracings shall withstand a force equal to 50% of the weight of the water contained in piping, valves and fittings.

4.9.3.3 Piping anchorages shall not be secured on two (2) dissimilar parts of the building which will move differently.

4.9.4 Hangers Installation.

4.9.4.1 Approved inserts may be used for the support of hangers, anchorages in concrete. Expansion shield should be used in a horizontal position on the sides of concrete beams and shall be above the bottom reinforcements.

4.9.4.2 Increaser couplings shall be attached immediately adjacent to the expansion shield.

4.9.4.3 When pipes 100mm dia., and larger are supported in the vertical position, the supports shall be at a minimum spacing of 3.0 meters (10') on center. Holes in concrete for expansion shield shall be made of the proper size and depth, as specified for the type of shield used, to provide a uniform contact with the shield its entire length and circumference.

4.9.4.4 Maximum distance between hangers shall be 3.65 meters (12') for size 25mm (1'). Provide at least one hanger for each length of branch line, one between each two cross main branches, one hanger for each 4.75 meters (15') length of feed mains. The distance between the hanger and the center line of upright sprinkler shall be not less than 76mm (3").

4.9.5 Support on Risers.

Risers shall be adequately supported either by attachments directly to the riser or by hangers located on the horizontal's connections close to the risers. Supports shall be provided at the ground level and at each third level and at the top most level of the riser.

4.10 PIPE SLEEVES

4.10.1 MATERIALS

4.10.1.1 Through footings – cast iron

4.10.1.2 Below Grade – cast iron or standard weight iron pipe

4.10.1.3 Above Grade – steel pipe

4.10.2 INSTALLATION

4.10.2.1 Minimum clearance between the pipe and sleeve shall not be less than 25mm. (1") for pipes, 25mm, (1") to 89mm. (3-1/2") and 50mm. (2") clearance for pipes 100mm. (4") and larger. The clearance between pipes and sleeves shall be filled with non-combustible flexible materials such as asbestos rope and furnished with semi-hardening mastic flush.

4.10.2.2 Floor sleeves shall extend at least 76mm. (3") above the top of the wearing surface.

4.10.2.3 Drains, fire department connections, test manifolds and other auxiliary piping connection to risers shall not be cemented into walls or floors.

4.11 PIPE PAINTING

4.11.1 Sprinkler heads, valve stems and the like shall not be painted.

4.11.2 After installation and test and before the installation of ceiling fixtures or boards, all piping shall be prime painted and coated with two coats of gloss red quick drying enamel.

4.12 ALARM CHECK VALVES

4.12.1 The alarm assemblies shall be constructed and installed, that any flow of water from the sprinkler system equal to or greater than from a single automatic sprinkler head, will result in an audible and visual alarm bells whether water or electrically actuated shall be capable of being actuated both automatically and annually. Alarm check valve shall be UL Listed / or FM Approved.

4.12.2 The water actuated alarm check valve assembly shall be complete with all the necessary attachments required to give an alarm and ease in maintenance.

The gong shall be installed as indicated in the plans. The alarm check valve shall consist of but not limited to the following:

- 4.12.2.1 Retard chamber
- 4.12.2.2 Water motor
- 4.12.2.3 Weatherproof gong
- 4.12.2.4 Strainer
- 4.12.2.5 Pressure gauges
- 4.12.2.6 Drain and attachments
- 4.12.2.7 Electrically supervised control valves
- 4.12.2.8 Pressure switch

4.13 FLOOR CONTROL VALVES & WATER FLOW SWITCHES OR DETECTORS

4.13.1 Flow alarm valves with sizes indicated on the plans shall be provided with two (2) N.O. electrical contacts that will close instantaneously with steady flow of water in the pipe and shall be complete with tamperproof terminal chamber with minimum of ½" dia. conduit. False alarm shall be prevented by an adjustable pneumatic device to retard the flow switch operation due to water surges. The switch shall be actuated only by a unidirectional flow of water. Electrical connections from these valves shall be done by the Electrical Contractors.

4.13.2 The alarm apparatus shall be substantially supported, located and installed so that all parts shall be readily accessible for inspection, removal and repair.

4.13.3 An actual water flow, through the use of the test connection, shall be employed to test the operation of the sprinkler alarm units in each floor or as whole.

4.14 ALARM AND SUPERVISORY SYSTEM

The supervisory and alarm system shall be integrated with the building Fire Alarm System. The Fire Alarm System annunciator shall indicate the flow valves, and the valves, and the valve supervisory switches.

4.15 MARKERS, INSTRUCTION & IDENTIFICATION SIGNBOARD

These signboards shall be made of gauge No.14 black iron sheet with baked enamel finish and letter instruction as shown on the plans. Additional signboards shall be mounted on the unobstructed for easy identification reading. Paints shall be basically gloss fire red and white.

4.16 PUMPS

4.16.1 GENERAL

4.16.1.1 Manufacturer's installation diagram shall be submitted together with the proposal. After installation is completed as "as-installed" drawing showing all the field revisions and exact locations/dimensions on the reproducible form plus two (2) white print copies shall be submitted to the PPA at the Contractor's Expense.

4.16.1.2 Pump performances curves (Technical Data Sheet or Brochure) shall be submitted together with the proposal. The pump efficiencies at various work loads shall be indicated thereon and properly marked.

4.16.1.3 Test run shall be performed by the supplier after installation is completed, to demonstrate conformity to the manufacturer's specifications. A successful test shall be a condition to the PPA's acceptance of the installed equipment and to final payment.

4.16.1.4 A direct statement on the availability of spare parts and maintenance service from pump supplier, for the period of at least (3) years reckoned from the date of acceptance test shall be submitted.

4.16.2 FIRE PUMP

4.16.2.1 Electrical Fire Pump

- The fire pump shall be Electric Motor Driven horizontal split case, multi-stage, electric motor and pump shall be mounted on a common base. Pump suction shall be provided with stainless steel strainer and vortex plate as required under NFPA-20. The pump shall be supplied with all accessories to include controllers, circuit breakers, starters, trims and other accessories to complete the works:

A. Conditions of service

1. Flow: 750 USgpm (170 m³/h)
2. Pressure rated: 100 psi
3. Speed: 3560 rpm
4. Suction pressure: 0 psi
5. Impeller diameter: 7.8125
6. Shutoff head: 114 psi
7. Elevation: 300 ft
8. Temperature: 77° F
9. Fire pump configuration
10. Pump
11. Materials of construction: Bronze fitted with Cast Iron casing
12. Pump rotation: Right handed
13. Flange rating (Suction/Discharge): (Suction 5 / Discharge 4) 125/125 LB
14. Pump base: Steel bent form base
15. Pump shaft material: Carbon Steel AISI C1045
16. Casing relief valve: UL listed & FM approved, Cla-Val
17. Testing
18. Engineering Tests
19. Certified performance test is included

B. Fire Pump Configuration

Pump

1. Materials of construction: Bronze fitted with Cast Iron casing
2. Pump rotation: Right handed
3. Flange rating (Suction/Discharge): (Suction 4 / Discharge 3) 125/125 LB
4. Pump base: Steel bent form base
5. Pump shaft material: Carbon Steel AISI C1045
6. Casing relief valve: UL listed & FM approved, Cla-Val
7. Testing
8. Engineering Tests
9. Certified performance test is included

Pump Unit Major Accessories

1. Circulation relief valve 100 mmØ
2. Vertical suction shaft with foot valve & strainer / stainless
3. Testing hose valve manifold
4. Flow measuring device
5. Relief valve and discharge cone
6. Primary connection
7. Capacity plate
8. Automatic air released valve fitting
9. Water level testing device and piping
10. Pressure gauge, 80 mmØ
11. Mercoid / pressure switched

- **Electrical Motor Drive**

1 Driver

Driver type

Motor: Special Motor - Selected parameters:
75 HP, 3560 RPM, 3/60/230, ODP, Wye-Delta-Open

4.16.2.2 Jockey Pump

One (1) set –Vertical In-Line multi-stage jockey pump Rated to deliver 20 GPM against 101 PSI cast iron construction stainless steel shaft and impeller driven by 3HP electric motor, 230Volts, 3Ø, 3500rpm, 60hz. with CONTROLLER UL Listed and

FM approved Jockey pump controller, Direct on line controller with complete standard features in NEMA-2 STD enclosure.

4.16.2.3 Fire Pump Controllers

Fire pump controller

- Fire pump controller: Wye-Delta-Open, 230V, 3Phase, 60Hz, 50 HP -
- Transfer Switch: No

Fire pump controller - alarm and indicators

Standard status LED's

- Power on
- Pump running
- Local start
- Remote start
- Deluge valve
- Emergency start
- Interlock on
- Low pressure
- Auto shutdown enabled

Standard alarm LED's

- Phase reversal
- Phase failure
- Fail to start
- Undervoltage
- Overvoltage
- Low room temperature
- Locked rotor trip
- Low suction pressure
- Source 2 disconnected

Standard output relays

- Startup
- Acceleration
- Phase failure
- Phase reversal
- Common alarm
- Pump running

Fire pump controller - additional option selections

Enclosure: NEMA 2 - Standard

Withstand rating: Standard withstand rating, 100,000 Amps

Space heater: No
Pressure transducer: 300 PSI for fresh water
Pressure transducer mounting: Externally mounted
Language: English
Floor Stand: 18" height

4.16.2.4 Pump Sequence Operation

Adjust pressure switches to control the fire pump operation in the following sequence:

Pump	Pump on	Pump off
1. Jockey Pump	95 psi	105 psi
2. Electric Fire Pump	65 psi	manual

5 OTHER REQUIREMENTS

5.1 The winning bidder shall prepare and submit for approval the following:

- Dimensional layout of all pumping system, fire hose cabinet connections etc.
- List of miscellaneous proposed, including pipe, fittings, valves, etc. and manhole accessories, identifying manufacturer and type.
- Field test reports

5.2 The specific brand/model unit being offered must be covered by a Brochure or Technical Data Sheet of the Fire Sprinkler System to be submitted together with the Technical Proposal:

- Manufacturer's catalog, sheets, marked as necessary to indicate materials or equipment being furnished for the following items:
 - a. Pumps
 - b. Controls and pump controller
 - c. Pressure relief and reducing valves
 - d. Mechanical grooved coupling and flexible connectors
 - e. Fire department connection (inlet & outlet), hose valves, hose header and hose cabinets
 - f. Sprinkler heads
 - g. Riser supports and sleeves

5.3 Include coverage of preventive maintenance of the system for one (1) year.

5.4 The design, supply, rehabilitation, commissioning and testing of the entire sprinkler system shall conform to the following:

- 1. Fire Code of the Philippines**
- 2. NFPA No. 13 – latest edition (Standard for the Installation of Sprinkler Systems)**
NFPA No. 10 – latest edition (Standard for Portable Fire Extinguisher)
NFPA No. 14 – latest edition (Standard for the Installation of Standpipe and Hose Systems)
NFPA No. 80 – latest edition (Standard for Fire Doors & Other Opening Protectives)
NFPA No. 75 – latest edition (Standard for the Fire Protection of Information Technology Equipment)
NFPA No. 18 – latest edition (National Fire Code) (Standard on Wetting Agents)
- 3. Uniform plumbing Code of the Philippines**
- 4. Fire Department ordinances of concerned city and municipality**

5.5 All construction permit and fees required for the work shall be obtained by and at the expenses of the Contractor. The Contractor shall furnish the Architect, the Engineer and the PPA final certificates of inspection and approval from the proper government authorities after the completion of the work.

5.6 The Contractor shall obtain all necessary allowances, pay royalties, etc. in connection with the use of any patented device or system and shall save PPA harmless from any claim or lawsuit arising from such use.

5.7 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 means contract for the Supply, Delivery, Installation and Commissioning of Sprinkler System.

6 DELIVERY

- Within one hundred twenty (120) calendar days from receipt of Notice to Proceed.**
- The winning bidder must provide a minimum of four (4) hours training to PPA Personnel for the use of the equipment.**

7 WARRANTY

- One (1) year warranty for manufacturing defects from the date of receipt of the Certificate of Acceptance. The winning bidder shall guarantee that the installed sprinkler system complies with the requirements of the authorities and free from all defective workmanship and materials (including spare parts) and will remain so, for a period of one (1) year from the date of final inspection and acceptance of the work. Any defect appearing within one (1) year shall be corrected by the winning bidder at no additional cost to the PPA.
- If the Fire Sprinkler System is malfunctioning and inoperable despite the phone supported troubleshooting, the winning bidder shall provide maintenance service to the site within seventy-two (72) hours after notification at no cost to PPA.

8 PAYMENT

- 35% of contract cost – After completion of 35% of the sprinkler system.
- 35% of contract cost – After completion of another 35% of the sprinkler system.
- 30% of the contract cost – After full completion of the sprinkler system, inspection and acceptance by PPA Head Office.

9 TESTING

9.1 The contractor shall conduct tests in the presence of inspector.

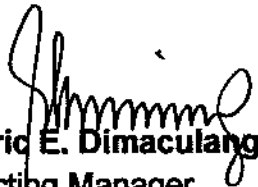
9.2 To remove foreign materials which may have entered the piping during installation of same flushing or underground connection is required before sprinkler piping is connected.

9.3 Hydrostatic Test:

- Test pressure not less than 200 psi on system pressure plus 50 psig for two hours.
- No visible leakage for inside sprinkler piping will be allowed. For underground mains and lead-ins, exceeding the permissible leakage or joints necessary repair shall be made.
- All control valve water pressure to insure proper operating test.
Use clean, non-corrosive water
- Fire connection shall be tested.

9.4 Testing of drainage facilities shall be made by opening the main drain valve while the control valve is wide open.

9.5 Test certificate shall be filled out and signed by the PPA's and Contractor's representative. System operations and maintenance chart shall be submitted to the PPA upon completion of the of the Contract. This shall include, among others, the locations of the control valves and care of the new equipment



Eric E. Dimaculangan
Acting Manager
Administrative Services 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);
or
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and
- ☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

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

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

or

A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class "B" Documents

- ☐ (m) 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)

- ☐ (n) *[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.
- ☐ (o) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

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

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

Name: _____

Legal Capacity: _____

Signature: _____

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

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

[illegible]

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

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

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

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

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

[Insert NAME OF BIDDER 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 (NFCC) 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:

[illegible]

***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:

[illegible]

***TO BE ATTACHED TO THE STATEMENT**

Name and Signature of Authorized Representative

Date _____