

Republic of the Philippines

Department of Environment and Natural Resources Visayas Avenue, Diliman Quezon City, 1100 Tel. Nos. (632) 929-66-26 (632) 929-62-52 929-66-20 929-66-33 to 35 929-70-41 to 43

BIDS AND AWARDS COMMITTEE

Supplemental/Bid Bulletin No.2

REPLACEMENT OF FIRE SPRINKLER SYSTEM AND INSTALLATION OF JOCKEY PUMP OF THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES-CENTRAL OFFICE (DENR-CO)

Bid Ref. No. DENR-CO-2020-003 Rebid

(Previous IB No. DENR-CO-2019-010)

Approved Budget for the Contract: ₽ 25,000,000.00

This **Supplemental/Bid Bulletin No.2** is being issued to further revise provisions/specifications in the Bidding Documents for the aforecited project:

A. New Schedule of Bidding Activities

| ACTIVITIES | | DATE AND TIME | | VENUE | |
|------------|---|---------------------------------------|---------------------------------------|--|--|
| 1. | | From | То | Holding Area, DENR Main | |
| | Submission of Bid Documents | 04 August 2020, (Tuesday) 10:00 AM | 11 August 2020, (Tuesday) 10:00 AM | Building, Visayas Ave., Diliman, Quezon City | |
| : | 2. Opening of Bids | 04 August 2020, (Tuesday) 10:30 AM | 11 August 2020, (Tuesday) 10:30 AM | Field Operations Conference Room, 5 th floor, DENR Main Building, Visayas Ave., Diliman, Quezon City & via Google Meet Platform | |

Note: Please refer to the Guidelines on the <u>Conduct of Bidding Activities</u> attached in the SBB No. 1 issued on 21 July 2020.

B. Revision to provisions/specifications in the Bidding Documents:

FROM

Section III Bid Data Sheet (28.0 Post-Qualification)

3.d) List of contractor's design and construction personnel with attached Certification of Availability, Curriculum Vitae and the following documentary requirements of Key Personnel per Annex VII:

| No. | Key Personnel | Documentary Requirements | |
|-----|----------------|--|--|
| 1. | Master Plumber | Valid and current PRC ID Certification or equivalent document to prove five (5) years of experience. List of completed or ongoing contracts of similar in nature | |

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|-----|----------------|--|--|
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| Cont. | | | Cont | • | | |
|--|--|--|----------------------------------|---|---|--|
| 2. | , | Documentary Requirements Curriculum Vitae Valid and current PRC ID Certification or equivalent document to prove five (5) years of | No. 2. | Mechanical Engineer either Registered (RME) or Professional (PME) | Curriculum Vitae Valid and current PRC ID Certification or equivalent document to prove five (5) years of experience. | |
| experience. Valid and current PRC ID Certification or equivalent document to prove five (5) years of experience. List of completed or on- going contracts of similar in nature | | 3. | Welders | Curriculum Vitae Valid and current NC-II Certificate issued by Technical Education and Skills Development Authority Certification or equivalent document to prove five (5) years of experience. List of completed or ongoing contracts of similar in nature | | |
| | | | 4. | Pipe Fitters | Curriculum Vitae Valid and current NC-II Certificate issued by Technical Education and Skills Development Authority Certification or equivalent document to prove five (5) years of experience. List of completed or ongoing contracts of similar in nature | |
| | Section | n VI. Specifications (Manpo | oower and Equipment Requirement) | | | |
| 6.3 | The Contactor shall at least provide four welders/pipefitters, who must be NC-II certified by the Technical Education and Skills Development Authority. These welders/pipefitters must have at least five (5) years of experience. | | 6.3 | The Contactor shall at least provide four (4) welders and four (4) pipefitters. These welders and pipefitters must be NC-II certified by the Technical Education and Skills Development Authority. They must also have at least five (5) years of work experience. | | |
| 6.4 The Contactor shall provide a professional licensed and registered mechanical engineer, who has at least five (5) years of experience related to the project. | | | 6.4 | Professional Mech | shall provide either a inical Engineer (RME) or a nanical Engineer (PME), who years of experience related | |

Bidders are advised to use the attached **Terms of Reference as of 30 July 2020** together with all other required documents for the submission of bids on **11 August 2020, 10:00 AM**.

Please use the 2nd Revision Checklist of Requirements as a guide/reference.

This Supplemental/Bid Bulletin No. 2 shall form part of the Bidding Documents. Any provision in the Bidding Documents inconsistent herewith is hereby amended, modified and superseded accordingly.

For guidance and information of all concerned.

Issued this 3rd day of August 2020 in Quezon City.

Approved by:

(sgd) MARCIAL C. AMARO, JR., CESO III Assistant Secretary for Policy, Planning and Foreign Assisted and Special Projects & Chairperson, Bids and Awards Committee

| Received by | : | |
|--|-----------------|---|
| (SIGNATURE OVER PRINTED NAME & DATE) | NAME OF COMPANY | _ |
| (PLEASE RETURN OR FAX THIS PAGE ONLY TO THE DENR BAC OFFICE @ 8926-2675) | | |

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Instruction to Bidders:

Please fill up the form accordingly and sign the Bidder's Undertaking. Failure to conform will result in a rating of "FAILED".

I. REVISED TERMS OF REFERENCE AS OF 30 JULY 2020

TERMS OF REFERENCE REPLACEMENT OF FIRE SPRINKLER SYSTEM AND INSTALLATION OF JOCKEY PUMP

(DENR Compound, Visayas Avenue, Diliman, Quezon City)

1. INTRODUCTION

Title of the Project Replacement of Fire Sprinkler System

and Installation of Jockey Pump

Project Location : DENR Main Building,

DENR Compound, Visayas Avenue, Diliman, Quezon City

Approved Budget for the

Contract (ABC)

P 25,000,000.00

Construction Period : 180 Calendar Days

2. OBJECTIVES

- 2.1 To provide the prospective contractors with sufficient background information on the Replacement of Fire Sprinkler System and Installation of Jockey Pump at DENR Main Building, DENR Compound, Visayas Avenue, Diliman, Quezon City, which will be completed within the shortest time possible at a cost most advantageous to the government in an acceptable quality and workmanship;
- 2.2 To describe the proposed project and its objectives, including Scope of Works and Deliverables, in detail; and
- 2.3 To determine the roles and responsibilities of the winning contractor during and after the construction period.

3. SCOPE OF WORKS

- 3.1 The Contractor, at its own expense, shall supply the necessary documents to satisfactorily complete the Installation and Replacement of Fire Sprinkler System and Jockey Pump at the Department of Environment and Natural Resources (DENR) compound in accordance with the Plans, Specifications, and Scope of Services approved by DENR's representative: Demolition Permit, Building Permits, Structural Design Analysis and Computation of Loads, Working Drawings, As-built Plans, Labor, Materials, Transportation, Tools, Supplies, Equipment, Appurtenances, including Management and Supervision of the Project;
- 3.2 The Contractor shall furnish all materials, equipment, tools, labor and services necessary for the complete Installation and Replacement of Fire Sprinkler System and

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TOR for the Replacement of Fire Sprinkler System and Installation of Jockey Pump (DENR Compound, Visayas Avenue, Diliman, Quezon City)

- Jockey Pump in strict accordance with the technical specifications and drawings, complete and ready for use.
- 3.3 The Contractor shall conduct site inspection to determine the specific needs of the project; and
- 3.4 The Contractor shall perform the following tasks at par with acceptable standards:
 - 3.3.1. Arrange or obtain and the cost of necessary permits, bonds and fees for the automatic sprinkler work;
 - 3.3.2. Pay all permit fees;
 - 3.3.3. Supply and install sprinkler system for the floors shown on the plans;
 - 3.3.4. Submit detailed shop drawings for review and approval of DENR, where the system shall include all pipes, hangers, sway braces, and control valve monitor switches;
 - Supply and install fire pumps and jockey pump, including controllers and pumps accessories;
 - Supply and install all electrical power connections, including electrical power connection to emergency power;
 - 3.3.7. Supply and install fire hose cabinets, including all accessories: fire hose 1 ½ x 50 ft, male and female brass coupling, 1-1/2 angle valve, 1-1/2 brass nipple, straight nozzle, and semi-automatic hose rack;
 - 3.3.8. Supply and install alarm check valves, complete with set of trimmings, retarding chamber, water motor alarm gong, and alarm pressure switches;
 - Coordinate and interface the required electrical wiring connections to the Building Central Fire Alarm System;
 - 3.3.10. Supply and install dry standpipe system, complete with valves and fire department connection as shown in the plans;
 - 3.3.11. Furnish and install fire department connection for wet sprinkler system;
 - 3.3.12. Furnish and install inspector's test connection pipe, sight glass, and valves on the farthest point of each floor as shown in the plans;
 - 3.3.13. Supply and install floor control valve, including water flow switch, supervisory switch, and pressure gauges on each floor as shown in the plans;
 - 3.3.14. Furnish and install the conduit and wiring connection of the water flow switch and supervisory switch to sprinkler monitoring control panel and interfaced to the Building Fire Alarm Panel;
 - 3.3.15. Conduct testing of all piping works and necessary cleaning of the fire protection works including testing of the fire department pipeline (dry pipe) and drain pipe and sprinkler monitor alarm panel;
 - 3.3.16. Seal all openings through which fire may spread from the pipe with fire-resistant materials;
 - 3.3.17. Conduct chipping and plastering works necessary for the area covered in the installation of automatic sprinkler system;
 - 3.3.18. Furnish the DENR with shop drawings and secure certificate of inspection;
 - Remove all rubbish and debris resulting from the fire protection work periodically from the jobsite;
 - 3.3.20. Pipe and install new water supply for cistern tank tapped to nearest MWSS supply line;

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TOR for the Replacement of Fire Sprinkler System and Installation of Jockey Pump (DENR Compound, Visayas Avenue, Diliman, Quezon City)

- 3.3.21. Provide project schedule in Gantt chart and PERT/CPM; and
- 3.3.22. Remove existing fire sprinkler system;
- 3.3.23. Train 10 DENR personnel for the operation and maintenance of the fire sprinkler system and jockey pump;
- 3.3.24. Provide back up as necessary for the operation and maintenance of the fire sprinkler system and jockey pump, wherein the service response time is within 24 hours

4. SPECIFICATIONS OF WORKS

4.1. SHOP DRAWINGS AND DATA

- 4.1.1. Before commencing any work or providing any materials at the jobsite for this project, the Contractor shall submit for approval to the Director of Administrative Service four (4) copies of catalog cuts and descriptive matter regarding materials and equipment intended to furnish and install.
- 4.1.2. Shop drawings and data shall be submitted specifically for, but not limited to the following items: Sprinkler heads, valves, pipe hangers, hose valve and accessories, fire department connections, fire pumps and jockey pumps, controllers, fire hose cabinets, mechanical grooved coupling (flexible pipe connectors), pressure reducing valves, pipe riser support and sleeves, portable fire extinguishers, and other equipment.
- 4.1.3. The Contractor shall not proceed with the installation of the work until he has received the approval of the Director of Administrative Service on shop drawings.
- 4.1.4. The approval of shop drawings, catalogue cuts, and other documents shall not relieve the Contractor of the responsibility of any errors or omissions which may exist in the items submitted nor shall relieve from the responsibility of deviations from the contract drawings and specifications.
- 4.1.5. The stamped approval of the shop drawings, catalogue cuts, and other documents shall not be construed as a complete check but will indicate only that the general design and method of construction is satisfactory.

4.2. SELECTION OF MATERIALS AND EQUIPMENT

- 4.2.1. All materials are brand new and all equipment furnished under this section (15500) shall be approved by Underwriter's Laboratories, Inc. (UL) and Factory Mutual (FM) or equivalent.
- 4.2.2. The proposal submitted shall include all materials and equipment as specified or shown on the drawings.

4.3. AUTOMATIC SPRINKLER ANG STANDPIPE SYSTEM

- 4.3.1. The Contractor shall furnish automatic sprinkler as follows:
 - Brand new;
 - Designed for 175 psi working pressure;
 - · Conforming to ASTM specifications; and
 - Has the name or brand along with the applicable ASTM Standard, marked on each length of pipe.
- 4.3.2. The Contractor shall furnish sprinkler piping as follows:
 - Schedule 40 black iron;

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- In accordance to ASTM A120 or A53;
- Joined by screwed joints in accordance with specifications ANSI B18.2 1"Ø up to 2"Ø and flanged or groove type connections for 2-1/2"Ø and up, where pipe fittings to be used with schedule 40 pipes shall be rated 300 lbs. class;
- Sprinkler piping that is exposed to the weather or used in a corrosive atmosphere shall be painted with protective coating;
- Sprinkler piping in the building shall be painted with two coats of enamel primer and two coats of Fire Red color enamel paint; and
- All ASTM A53 and ASTM A120 sprinkler pipe must be hydrostatically tested at the mill per the ASTM Standard (Certification from the Manufacturer).
- 4.3.3. The Contractor shall furnish screwed fittings as follows:
 - · Shall be malleable iron;
 - 300 lbs and 150 lbs class;
 - · Black; and
 - In accordance with ANSI B16.3.
- 4.3.4. The Contractor shall furnish flange fittings as follows:
 - · Shall be steel:
 - · Short body;
 - 150 lbs class;
 - · Black;
 - In accordance with ANSI B16.1;
 - · Gaskets shall be full face of 1/8" minimum thickness red sheet rubber;
 - Flanged bolts and heavy semi-finished hexagon head nuts, cadmium plated, having dimension in accordance with ANSI B18.2.
- 4.3.5. The Contractor shall furnish weld fittings as follows:
 - · Shall be steel;
 - · Standard Weight:
 - · Black; and
 - In accordance with ANSI B16.25, ASTM B16.5 of ANSI B16.11.
- 4.3.6. The Contractor shall furnish outside screw and yoke gate valves as follows:
 - · Shall be flanged;
 - Iron body;
 - Bronze mounted;
 - 175 psi working pressure;
 - With hand wheel turning counter clockwise to open; and
 - Shall be UL/FM tested.
- 4.3.7. The Contractor shall furnish valve for main riser as follows:
 - · Shall gate valve or globe type;
 - · Bronze body;
 - Screwed;
 - 175 psi pressure rating;
 - · 6 in size; and

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- · Renewable composition soft disc.
- 4.3.8. The Contractor shall furnish valve for auxiliary drain and inspector's test connection as follows:
 - · Shall globe type:
 - Bronze body;
 - Screwed;
 - · 175 psi pressure rating;
 - · 2 in size; and
 - · Renewable composition disc.
- 4.3.9. At each location where called for on plans or where required by the Fire Department, provide an approved retard-type electric flow alarm switch. Provide alarm bell as required. Flow alarm switch shall have extra set of contacts for extension by other to central alarm panel.
- 4.3.10. The Contractor shall furnish flow switch as follows:
 - Shall be vane type;
 - · 24 volts; and
 - · Shall be tested and listed by UL and or FM.
- 4.3.11. The Contractor shall furnish OS&Y Gate Valve Supervisory Switch as follows:
 - · 24 volts; and
 - · Shall be tested and listed by UL and/ or FM.
- 4.3.12. The Contractor shall furnish fire hose cabinet as follows:
 - · Shall be recessed:
 - · Gauge 16 steel body;
 - Aluminum door trim;
 - Designed to fit 50ft hose pi rack and fire extinguisher;
 - Door shall be full panel glass;
 - Furnish and install one (1) each 4.5kgs (10lbs) Capability ABC Cry powder chemical, multipurpose type portable fire extinguisher with attached MSDS (EMS Compliant); and
 - · Provide fire axe to be placed inside the cabinet.
- 4.3.13. The Contractor shall furnish pin rack for fire hose cabinet as follows:
 - · Shall be semi-automatic type;
 - baked red enamel finish;
 - · Designed for 50ft of 1-1/2" hose; and
 - Furnished with 1-1/2" chrome plated brass rack nipple.
- 4.3.14. The Contractor shall furnish fire hose as follows:
 - Shall be 50 feet of 1-1/2" cotton single jacket;
 - Rubber lined hose with wax and gum treatment;
 - 1-1/2" chrome plated coupling;
 - Male-female national standard hose threads; and
 - Shall be approved by UL and or FM.
- 4.3.15. The Contractor shall furnish nozzle for fire hose as follows:
 - Shall be 1-1/2" adjustable;
 - · Capable of complete shut-off;

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- · Solid straight stream or any degree of solid conical fog;
- · Chrome plated;
- · Threads shall be national standard hose threads; and
- Shall be approved by UL and or FM.
- 4.3.16. The Contractor shall supply the following minimum tools for maintenance and other uses:
 - 1 set of pipe wrenches, from 6" to 20";
 - . 1 set of back wrenches, from 1/2" to 24";
 - 1 set of socket wrenches, from 1/2" to 24";
 - . 1 set of open wrenches, from 1/2" to 24"; and
 - 14 pcs of fire sprinkler stop valve.

4.4. IDENTIFICATION SIGNS AND CHARTS

4.4.1. The drain, alarm test valves, and other components, including piping, equipment materials, and devices, shall have standard identification signs and charts, such as but not limited to warning signs and labels, pipe labels, valve tags, warning tags, and stencil. The standard shall be A13.1, also titled Scheme for the Identification of Piping Systems, by the American Society of Mechanical Engineers. The lettering shall be in fire red with white. The signs and charts shall be attached to a visible and noticeable position.

4.5. SPRINKLER HEADS

- 4.5.1. The Contractor shall furnish sprinkler heads as follows:
 - Shall be recessed, upright, pendent, vertical side wall, horizontal side wall type as required;
 - 12mm dia. and/or 13.5mm dia.:
 - Pipe threads, rated at 68 degrees Centigrade, 93 degrees C, and/ or 121 °C.
 - Sprinklers in areas with suspended ceiling the escutcheon plates shall be
 of the same finish as the textures of the ceiling boards;
 - Shall be 93 °C at the parking area with orifice and glass bulb upright type, brass finish and with a K-factor of 5.6;
 - Shall be 68 °C. at the office areas with standard orifice glass bulb quick response recessed type, chrome finish with a K-factor of 5.6; and
 - Shall be tested and listed by UL and/ or FM.
- 4.5.2. The Contractor shall furnish a steel enameled box housing for the spare sprinkler heads and a sprinkler wrench as shown on the plan.

4.6. FIRE PUMP

- 4.6.1. The fire pump assembly shall be supplied and to be installed by the Contractor as follows:
 - · Furnish and install the pumps at the basement of the building;

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- All pumps shall be complete with motor, motor starter, control, fittings, and other appurtenances and accessories necessary to complete the equipment installation; and
- Pump shall be connected as shown in the drawings. Complete installation shall be in accordance with the requirements and in compliance with NFPA 20, Philippine Insurance Rating Association (PIRA) and of the Fire Department.

4.7. EXECUTION AND PROTECTION OF WORKS

- 4.7.1. The interior surfaces of all piping and equipment shall be clean and free of all dirt, loose scale, rust, and other foreign materials before installation.
- 4.7.2. Pipe ends shall be reamed to remove all burns and pipe sections shall be cleaned inside to remove all chips and foreign material prior to making up joints.
- 4.7.3. Approved joint compound shall be applied to the threads of the pipe and not in the fittings when making up joints. Pipes shall not extend into the waterways of the fitting.
- 4.7.4. Sprinkler heads installed where they may be exposed or subjected to mechanical damage shall be furnished complete with head guards.
- 4.7.5. When welding pipe on jobsite, the fire hazard of the welding process shall have suitable safeguards. Additional personnel shall monitor all welding activities, with a fire extinguisher on hand. Weld in place of pipe and fittings shall not be allowed at the jobsite. Only shop weld fabrication will be permitted with factory made fittings. Mitered weld will not be provided with flanged or grooved type fittings.
- 4.7.6. Pipe passing through the building walls and floors above grade shall be provided with sleeves of standard weight galvanized steel pipe. The annular spaces between pipes and sleeves shall be packed tight insulated fire resistive materials. Provide chrome plated escutcheon plated large enough to cover the pipe sleeves. Sleeves shall be sized as follows:

| SIZE OF PIPE | | SIZE OF ID SLEEVE | | |
|--------------|--------|-------------------|--------|--|
| 1 in | 25 mm | 2 in | 50 mm | |
| 1-1/4 in | 32 mm | 2 in | 50 mm | |
| 1-1/2 in | 40 mm | 2-1/2 in | 65 mm | |
| 2 in | 50 mm | 3 in | 75 mm | |
| 2-1/2 in | 65 mm | 4 in | 100 mm | |
| 3 in | 75 mm | 5 in | 125 mm | |
| 4 in | 100 mm | 6 in | 150 mm | |
| 6 in | 150 mm | 8 in | 200 mm | |
| 8 in | 200 mm | 10 in | 250 mm | |

4.8. PIPE SUPPORTS

- 4.8.1.All piping shall be supported by means of hangers of approved quality, capable of supporting load. Sizing, spacing and installation shall be in accordance with National Fire Protection Association Standard No. 13, "Sprinkler Systems."
- 4.8.2. Fire Protection Contractor shall furnish and install the required sprinkler pipe seismic sway bracing for the risers, feed main-pipe and cross-main pipe all in

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- accordance with the tables and figures shown on NFPA-13 requirements for the protection of the piping against breakage due to Seismic Earthquake movement.
- 4.8.3. No cutting, drilling, welding or burning of a structural steel member of the DENR Main Building shall be allowed. Power driven studs and welding shall not be allowed.
- 4.8.4. All bolts and threaded rods shall be used with double nut and washer wherever a supported piping to drop.

4.9. TEST AND INSPECTION

- 4.9.1. The Contractor shall conduct and bar the costs of all necessary tests of the fire protection work, furnishing all labor, power and equipment. All piping shall be tested with water and test witnessed by representatives of the DENR Project Management Team.
- 4.9.2. The fire protection piping shall be tested per floor under a hydrostatic pressure of not less than 200psi, for duration of 24 hours at 50lbs per square inch more than the maximum static pressure when the maximum pressure is in excess of 150lbs per sq. in.
- 4.9.3. The piping subjected to the hydrostatic test shall be proven tight or acceptable by the test. Defective work or materials shall be corrected or replaced. If necessary, piping shall be dismantled and reassembled with the use of new pipes or fittings as no caulking or make shift method of temporary repair of defective work will be permitted. Test shall be repeated until the particular line or system receives the approval of the owner.
- 4.9.4. Acceptance of the automatic sprinkler work shall be used upon inspection and tests of the completed installation by the representatives of the local Fire Department and DENR Project Management Team.
- 4.9.5. Before the project is turned-over, the Contractor shall provide copies (digital and hard copies) of the as—built plans. The Contractor shall also furnish the "Contractor Material Test Certificate" in the NFPA 13 forms and the "Fire Pumps Acceptance Test"" as per NFPA 20 fire code, duly signed by authorized person concerned. These forms are to be submitted to the Insurance Company.
- 4.9.6. The required Certificate of Occupancy shall be obtained by the Contractor from the Quezon City Local Government.

5. GENERAL REQUIREMENT

- 5.1 The Contractor shall supply and submit a list of manpower, materials, and equipment necessary for the project in accordance with the approved Specifications, Plans, and Scope of Works.
- 5.2 The Contractor shall prepare and submit As-Built Plans.
- 5.3 The Contractor shall submit an emergency evacuation safety plan, including meeting point area, for the Department in case of emergency.
- 5.4 The Contractor shall comply with pertinent regulations and adopt safety measures, such as but not limited to: enclosures, shielding, coverings, warning devices, off limits signs, etcetera.
- 5.5 The Contractor shall submit pictures taken before the construction.

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- 5.6 The Contractor shall submit monthly Accomplishment Report accompanied with pictures every first Monday of the succeeding month, addressed to the Director of Administrative Service.
- 5.7 The Contractor shall submit pictures taken before the construction.
- 5.8 The Contractor shall have visited the site and thoroughly inspect existing facilities and considered, in the preparation of his tender, how such conditions will affect the work required by the drawings and specifications, and failure to do so will in no way relieve the Contractor of the responsibility for furnishing labor, materials, and equipment required.
- 5.9 The Contractor shall not claim additional payments or damages for any delay or extra expense caused by encountering construction or materials other than anticipated or different from those indicated.
- 5.10 The Contractor shall assume full responsibility for any and all damages to the existing construction and to verify facilities.
- 5.11 The Contractor shall take any necessary photographs of existing conditions and shall file a report with the Implementing Agency, listing any existing damaged construction before the work is started.
- 5.12 The Contractor shall finish the construction with first class workmanship to the satisfaction of the DENR Management.
- 5.13 The Contractor shall only use materials in accordance to the standards of the Bureau of Research and Standards of the Department of Public Works and Highways, the Department of Science and Technology, or the Department of Trade and Industry.
- 5.14 The Contractor shall conform with the Environment Management System being practiced by the DENR Central Office in accordance with ISO 14001-2015 by providing the following:
 - 5.14.1 A List of pre-identified Environmental Aspects and Impacts and the corresponding operational control or crisis response procedures in cases of emergency situations shall be submitted to the GSD three days upon receipt of the NTP;
 - 5.14.2 All supplies and materials to be brought inside the DENR premises shall be green labelled or environment friendly (if applicable) and bear the corresponding Material Safety Data Sheet (MSDS);
 - 5.14.3 All hazardous materials necessary for the completion of the project shall be properly labelled with MSDS and placed in a secondary containment and located at the safest place in the working area; and
 - 5.14.4 All hazardous wastes generated shall be properly turned over to DENR MRF for the inventory and subsequent disposition enlisting the services of authorized treater/transporter.
- 5.15 The Contractor shall adopt a procedure to mitigate the effects to the environment of demolition, repair, painting and other activities.
- 5.16 The Contractor shall ensure that all staff are wearing their working apparels with IDs and provided with necessary safety gears.
- 5.17 The Contractor shall strictly enforce the NO STYRO OR PLASTIC POLICY in the working area.
- 5.18 The Contractor shall train DENR personnel assigned by the Director of Administrative Service for the operation and maintenance of the fire sprinkler system.

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5.19 The Contractor shall strictly follow the guidelines on the fight against COVID-19 issued by the Inter-Agency Task Force, DPWH (specifically Department Order No. 35, Series of 2020), local government, as well as other offices, agencies, and departments of the Philippines.

6. MANPOWER AND EQUIPMENT REQUIREMENT

- 6.1 The Contractor shall have a current and valid Philippine Contractors Accreditation Board License of at least Small B for Fire Protection Works and Mechanical Works.
- 6.2 The Contractor must be operating for at least five (5) years.
- 6.3 The Contactor shall at least provide four (4) welders and four (4) pipefitters. These welders and pipefitters must be NC-II certified by the Technical Education and Skills Development Authority. They must also have at least five (5) years of work experience.
- 6.4 The Contactor shall provide either a Registered Mechanical Engineer (RME) or a Professional Mechanical Engineer (PME), who has at least five (5) years of experience related to the project.
- 6.5 The Contractor shall provide a licensed and registered master plumber, who has at least five (5) years of experience related to the project.
- 6.6 The Contract shall provide at least one of each following equipment:
 - 6.6.1 Pipe threader machine
 - 6.6.2 Inverter-type welding machine with 300 amp
 - 6.6.3 Heavy-duty pipe wrench
 - 6.6.4 Heavy-duty cutting machine
 - 6.6.5 Heavy-duty electrical drill
 - 6.6.6 Heavy-duty grinder
 - 6.6.7 Service vehicle/dump truck
 - 6.6.8 Heavy-duty socket wrench set
 - 6.6.9 Heavy-duty buck wrench set
- 6.7 The Contractor shall submit the following:
 - 6.7.1 Curriculum Vitae of the abovementioned personnel;
 - 6.7.2 Copy of valid and current certificates and cards issued by respective agencies of the abovementioned professionals; and
 - 6.7.3 List of completed or on-going contracts of similar in nature.

7. APPROVED BUDGET FOR THE CONTRACT

7.1 The estimated cost of this construction is Twenty-Five Million Pesos (Php 25,000,000.00) inclusive of all applicable government taxes and charges.

8. CONTRACT FEE AND MODE OF PAYMENT

- 8.1 In consideration of the services to be performed under this TOR, the DENR shall pay the Contractor the contract amount inclusive of all applicable taxes.
- 8.2 DENR may, upon written request by the Contractor, make and advance payment not exceeding fifteen percent (15%) of the Contract Amount upon submission of an

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TOR for the Replacement of Fire Sprinkler System and Installation of Jockey Pump (DENR Compound, Visayas Avenue, Diliman, Quezon City)

- 8.2 DENR may, upon written request by the Contractor, make and advance payment not exceeding fifteen percent (15%) of the Contract Amount upon submission of an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank. This will cover expenses for mobilization and construction start-up.
- 8.3 Advance payment of the contract amount shall also be allowed for procurement of goods required to address contingencies arising from natural or man-made calamities in areas where a "State of Calamity" has been by appropriate authorities.
- 8.4 Upon submission of an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank, the advance payment shall be allowed and paid within sixty (60) calendar days from signing of the contract. The irrevocable letter of credit or bank guarantee must be for an equivalent amount, shall remain valid until the goods are delivered, and accompanied by a claim for the advance payment.
- 8.5 Mode of Payment will be through progress billing. Actual work accomplishment will be verified and approved by the Director of Administrative Service.

| Description | Deliverables | Percentage of Contracted Amount |
|------------------------|---|------------------------------------|
| Mobilization | Approved Contract and Clearances | 15% |
| Progress Billing No. 1 | Gantt Chart and PERT/CPM detailing that 30% of the Progress Billing is accomplished | 15% |
| Progress Billing No. 2 | Gantt Chart and PERT/CPM detailing that 55% of the Progress Billing is accomplished | 25% |
| Progress Billing No. 3 | Gantt Chart and PERT/CPM detailing that 70% of the Progress Billing is accomplished | 25% |
| Final Billing | Final Report, Approval of the Director of Administrative Service, and Certificate of Completion and Acceptance | 20% |

SUB-CONTRACTING

9.1 The Contractor shall not sub-contract the performance of the SERVICES stipulated in this TOR subjects of this Agreement or any part thereof without the written consent of the DENR.

10. MISCELLANEOUS PROVISION

10.1 The Contractor shall hold the DENR free from any and all claims, liabilities, losses and suits arising from the Contractor's services, or the acts, omissions or conduct of all persons employed or allowed by the Contractor or participate or assists in the performance of its obligations under this TOR.

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- 10.2 However, the DENR shall have the right to declare this Agreement rescinded and terminated after due notice upon failure of the Contractor to comply with any terms and conditions of this Agreement without prejudice to such other rights of the DENR to proceed against the Contractor as may be warranted by the circumstances, including forfeiture or performance bond and/or the filing of appropriate administrative, civil/or criminal charges against the responsible persons.
- 10.3 Any extension of the contract duration shall not involve any additional cost to the DENR.
- 10.4 The Contractor shall comply with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect the contract in any way, including the express and implied warranties and liabilities which may be found therein.
- 10.5 The Contractor shall comply with all existing laws and pertinent social legislation, executive and administrative orders, together with all implementing rules and regulations issued by the Department of Labor and Employment (DOLE) and other relevant governmental authorities.

11. VIOLATION OF THE CONTRACT

11.1 If the Contractor shall violate any if the terms and conditions of this TOR, or shall neglect to perform any of their work, duties functions, responsibilities or obligations stipulated herein, or for any other causes shall not carry the tasks in acceptable manner, and by the reason thereof, the DENR suffers damages or losses, the Contractor shall be assessed a penalty in the form of liquidated damages in the amount of at least equal to one-tenth of one percent (1/10 of 1%) of the cost of the unperformed portion for everyday of delay.

12. GUARANTEE

12.1 The contractor shall furnish a written guarantee covering the satisfactory operation of the project in repair, replacement of defective items for a period of 2 years, and availability of spare parts for at least 10 years after the issuance of Certificate of Acceptance.

Prepared and Submitted by:

(sgd.)AR. KATRINA CARLA I. CATAPANG OIC-Chief, GSD-BGMS

Checked by:

(sgd.)ENGR. JAIME F. JACOBO OIC Asst. Chief, GSD

Noted by:

(sgd.)ENGR. GUILLERMO V. ESTIPONA, JR. OIC-Chief. GSD

Concurred:

(sgd.)RABINDRANATH P. QUILALA OIC-Director, Administrative Service

Recommending Approval:

(sgd.) JESUS ENRICO MOISES B. SALAZAR

OIC Assistant Secretary for Human Resource, Development, and Administration

Approved by:

(sgd.)ROY. A CIMATU Secretary, DENR

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II. OTHER REQUIREMENTS

- 1. Contractor to submit pictures/photos before, during and after conduct of Works.
- 2. All Materials to be used must be compliant with the Product Quality Standards set by the Bureau of Philippine Standards-DTI
- 3. All Materials to be used in the project must be presented for approval to DENR Authorized Representatives prior to its installation.
- 4. Bidder has no overdue deliveries or unperformed services intended for DENR.
- 5. Bidder did not participate as a consultant in the preparation of the design or technical specification of the WORKS subject of the bid.

III. REQUIREMENTS IF AWARDED THE CONTRACT

The Contractor shall submit the following within fourteen (14) calendar days after issuance of the Notice of Award:

A Detailed Program of Work for approval of DENR's Authorized Representative, which shall include among others:

- a) The order in which it intends to carry out the work including anticipated timing for each stage of Work.
- b) Periods for review of specific outputs and any other submissions and approvals.
- c) Sequence of timing for inspections and tests as specified in the contract documents.
- d) Number of names and personnel to be assigned for each stage of the work.
- e) List of Equipment required on site for each major stage of the work.
- f) Description of the quality control system to be utilized for the project.

BIDDER'S UNDERTAKING

I/We, the undersigned bidder, having examined the Bidding Documents including Bid Bulletins, as applicable, hereby BID to (supply/deliver/perform/comply) the above Terms of Reference

I/We undertake, if our bid is accepted, to deliver the goods/services in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security within ten (10) calendar days from receipt of the Notice of Award.

Until a formal contract/order confirmation is prepared and signed, this Bid is binding on us.

| Name of Company (in print) |
|--|
| Signature of Company Authorized Representative |
| Name & Designation (in print) |
| |

Bid Ref. No. DENR-CO-2020-003

DENR BIDS AND AWARDS COMMITTEE 2ND REVISION CHECKLIST OF REQUIREMENTS FOR BIDDERS Name of Company: REPLACEMENT OF FIRE SPRINKLER SYSTEM AND INSTALLATION OF JOCKEY PUMP OF THE DEPARTMENT OF ENVIRONMENT AND NATURAL **Project:** RESOURCES-CENTRAL OFFICE (DENR-CO) Bid Ref. No. Bid Ref. No.DENR-CO-2020-003 Rebid APPROVED BUDGET FOR THE CONTRACT: P25,000,000.00 Ref. **Particulars** No. **ENVELOPE 1: ELIGIBILITY AND TECHNICAL DOCUMENTS** In accordance with Clause 19.4 of the Instructions to Bidders, the bid, except for the unamended printed literature, shall be signed, and each and every page thereof shall be initialed, by the duly authorized representative/s of the Bidder. (a) ELIGIBILITY DOCUMENTS 12.1 (a) **CLASS "A" DOCUMENTS** (a.1.) LEGAL DOCUMENTS Sworn statement in accordance with Section 25.3 of the IRR of RA 9184 and using the prescribed form attached as Annex I with attached Proof of Authority of the bidder's authorized representative/s: i. FOR SOLE PROPRIETORSHIP (IF OWNER OPTS TO APPOINT A REPRESENTATIVE): Notarized or unnotarized Special Power of Attorney ii. FOR CORPORATIONS, COOPERATIVE OR THE MEMBERS OF THE JOINT VENTURE: Notarized or unnotarized Secretary's Certificate evidencing the authority of the designated representative/s. (i) Notes: 1) Should there be more than one (1) appointed authorized representatives, use the word <u>"any of the following"</u> or <u>"OR"</u>, otherwise, all authorized representatives must sign/initial the bid submission. 2) Unnotarized documents shall be accepted pursuant to GPPB Resolution No. 09-2020 dated 07 May 2020. IN THE CASE OF UNINCORPORATED JOINT VENTURE: Each member shall submit a separate Special Power of Attorney and/or Secretary's Certificate evidencing the authority of the designated representative/s. Valid and current Certificate of PhilGEPS Registration (Platinum Membership) issued to [Note: The valid and current Certificate of Registration (Platinum Membership) shall reflect the updated eligibility documents. Should the Annex A of said Certificate reflects not updated documents, the bidder shall submit, together with the certificate certified true copies of the updated documents] OR The following Class "A" eligibility documents: a) Registration certificate from SEC, Department of Trade and Industry (DTI) for sole proprietorship, or CDA for cooperatives; Copy of any of the following documents issued to bidder by the city or municipality where the principal place of business of the bidder is located or the equivalent document (ii) for Exclusive Economic Zones or Areas: Business/Mayor's Permit for 2020. i. Application for Business/Mayor's Permit with attached Official Receipt (OR) of ii. payment of Licensing and Regulatory fees and 2019 Business/Mayor's Permit.

Note: Expired Business/Mayor's permit with Official Receipt of renewal application shall be accepted. Valid and current Business/Mayor's permit is subject for submission after award of contract but before payment, pursuant to GPPB Resolution No. 09-2020 dated 07 May 2020.

- c) Current and valid Tax Clearance per E.O. 398, series of 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR);
- Audited Financial Statements (AFS) for CY 2019 with stamped "received" by the Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions dated CY 2020; institutions dated CY 2019;

| (a.2.) TECHNICAL DOCUM | IENTS | | | | |
|--|--|--|--|--|--|
| (iii) awarded but not yet | ongoing government and private contracts, including contracts started, if any, whether similar or not similar in nature and tract to be bid (per Annex II); | | | | |
| | Statement of the Bidder's Single Largest Completed Contract (SLCC) of similar nature equivalent to at least fifty (50%) of the total ABC (per Annex II-A) | | | | |
| replacement of Fire | shall refer to contracts involving installation and Sprinkler and Jockey Pump of buildings. | | | | |
| listed completed large (a) Constructor's at least SAT (b) Owner's Cer | documents must be submitted/attached corresponding to est contracts per Annex II-A: s Performance Evaluation System (CPES) with a Final Rating of ISFACTORY; or tificate of Acceptance, or tificate of Completion | | | | |
| (iv) Classification/Catego | oilippine Contractors Accreditation Board (PCAB) License with bry in General Building/General Engineering with at least or D and Size Range of Small B with (SP-ME) and (SP-FP) . must indicate "PCAB registered contractor for Government" | | | | |
| (a.3.) FINANCIAL DOCUM | FINANCIAL DOCUMENTS | | | | |
| Net Financial Contrac Clause 5.5, (per Ann e | eting Capacity (NFCC) computation, in accordance with ITB | | | | |
| | ion must be equal to the ABC of this project. The detailed e required formula must be provided. | | | | |
| | In case of Joint Venture, the partner responsible to submit the NFCC shall likewise submit the Statement of all its ongoing contracts and the Latest Audited Financial Statements. | | | | |
| Class "B" Document: (Fo | r Joint Venture) | | | | |
| (i) Valid Joint Venture Agreement (JVA) The JVA must specify which Partner/Company of the JV shall be designated as Authorized Representative. It must also clearly state the Name of the Officer/s designated as the Authorized Representative/s of the Joint Venture. | | | | | |
| a) Valid and current Ce | (ii) Each partner of a JV shall likewise submit the following:a) Valid and current Certificate of PhilGEPS Registrationb) Valid and current PCAB License. | | | | |
| a) Statement of All On | lowing by any of the JV partners constitute compliance: going Contracts whether similar or not similar in nature (Annex Largest Completed Contract (Annex II-A) | | | | |
| | (iv) Entities forming themselves into a Joint Venture shall likewise submit an additional PCAB license to act in the capacity of such joint venture. | | | | |

(b) TECHNICAL DOCUMENTS

(i) Original Bid Security must be issued in favor of the **DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (DENR)** (must be valid for at least 120 calendar days from the date of bid opening); any one of the following forms:

| Project ABC (P) | Bid Security: Cash, Cashier's/ Manager's Check, Bank Draft / Guarantee, Irrevocable Letter of Credit (2%) (P) | Bid Security: Surety Bond (5%) (P) | Bid Securing Declaration |
|---------------------------------|--|---------------------------------------|-----------------------------|
| 25,000,000.00 | 500,000.00 | 1,250,000.00 | No required Amount |

- 1. Bid Securing Declaration per Annex V;
- 2. The Cashier's/Manager's Check shall be issued by a Local, Universal or Commercial Bank
- 3. The Bank Draft/Guarantee or Irrevocable Letter of Credit shall be issued by a Local Universal or Commercial Bank; or
- 4. Should bidder opt to submit a Surety Bond as Bid Security, the surety bond must be callable on demand and must be issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such bond. Together with the surety bond, a certification from Insurance Commission must be submitted by the bidder which must state that the surety or insurance company is specifically authorized to issue surety bonds.
- 5. For submission of Bank Draft/Guarantee or Irrevocable Letter of Credit or Surety Bond, the following must be stated/specified in the Bid Security pursuant to Section III, ITB Clause 18.5, to wit:

The following are the grounds for forfeiture of Bid Security

- IF A BIDDER:
- a) Withdraws its bid during the period of bid validity.
- Does not accept the correction of errors pursuant to Section 32.2.1 of the IRR of RA 9184.
- Fails to submit the Post Qualification requirements within the prescribed period or a finding against their veracity thereof.
- d) Submission of eligibility requirements containing false information or falsified documents.
- Submission of bids that contain false information or falsified documents, or the concealment of such information in the bids in order to influence the outcome of eligibility screening or any other stage of the public bidding.
- Allowing the use of one's name, or using the name of another for purposes of public bidding.
- g) Withdrawal of a bid, or refusal to accept an award, or enter into contract with the Government without justifiable cause, after the Bidder had been adjudged as having submitted the Lowest Calculated and Responsive Bid.
- h) Refusal or failure to post the required performance security within the prescribed time.
- Refusal to clarify or validate in writing its bid during post-qualification within a period of seven (7) calendar days from receipt of the request for clarification.
- Any documented unsolicited attempt by a bidder to unduly influence the outcome of the bidding in his favor.
- k) Failure of the potential joint venture partners to enter into the joint venture after the bid is declared as successful.
- All other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.

■ IF THE SUCCESSFUL BIDDER:

- fails to sign the contract in accordance with Section 40 of the Revised IRR of RA 9184; or
- (ii) fails to furnish performance security in accordance with Section 40 of the Revised IRR of RA 9184.

Note: Duly notarized or unnotarized Bid Securing Declaration shall be accepted pursuant to GPPB Resolution No. 09-2020 dated 07 May 2020.

Conformity with Project Specifications as specified in the Section VI (Terms of Reference as of 30 July 2020 per SBB No. 2 with Working Drawings per SBB No. 1) attached with the following:

- 1. Organizational Chart for the contract to bid;
- 2. List of contractor's Key Personnel to be assigned to the contract to be bid, with their complete qualifications and experience data and other requirements as specified below. Required Key Personnel are as follows:

| Key Personnel | Experience | Documentary Requirements |
|---|----------------|--|
| At least one (1) Registered (RME) or Professional (PME) Mechanical Engineer | Five (5) years | Curriculum Vitae Valid and current Professional Identification Card issued by Professional Regulatory Commission (PRC) |
| At least one (1) Master Plumber | Five (5) years | Curriculum Vitae Valid and current Professional Identification Card issued by Professional Regulatory Commission (PRC) |
| At least four (4) Welders | Five (5) years | NC II Certified by the Technical Education and Skills Development Authority |
| At least four (4) Pipefitters | Five (5) years | NC II Certified by the Technical Education and Skills Development Authority |

3. List of contractor's equipment units, which are owned, leased, and/or under purchase agreements, supported by certification of availability of equipment from the equipment lessor/vendor for the duration of the project.

ENVELOPE 2: FINANCIAL DOCUMENTS

Completed and signed Financial Bid Form. Bidder must submit the following:

- 1. Bid Form per Annex V
- 2. Bid Prices in the Bill of Quantities per Section VIII
- 3. Detailed estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid
- 4. Cash flow by quarter or payment schedule
- 5. Digital copy store in Universal Serial Bus (USB) flash drive in Excel File.

The ABC is inclusive of VAT. Any proposal with a financial component exceeding the ABC shall not be accepted.

Note: In case of inconsistency between the Checklist of Requirements for Bidders and the provisions in the Instruction to Bidders/Bid Data Sheet, the Instruction to Bidders/Bid Data Sheet shall prevail.

13.1

(ii)