

Proj. Ref. No.: **BAC1-2023-12-0127**

End-User: **OETS/CMG-VS**

Project

Title:

SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF ROTARY VANE VACUUM PUMP FOR MEDICAL USE, FULLY NFPA 99 CERTIFIED, STACK MOUNTED, DUPLEX-TYPE, DIRECTLY COUPLED TO TWO (2) UNITS 25 HP MOTOR INTENDED FOR THE REPLACEMENT OF OLD VACUUM PUMP AT CENTRALIZED MEDICAL GAS PLANT (CMG-VS) SINGLE BID

Contract:

Opening of Bids: **26 January 2024**

Total ABC: **Php13,020,000.00**

Item No.	Qty.	UOM	Item Description	Unit Cost (PhP)	Quotations (all taxes included)	
					In Figures	In Words
1	1	Lot	SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF ROTARY VANE VACUUM PUMP FOR MEDICAL USE, FULLY NFPA 99 CERTIFIED, STACK MOUNTED, DUPLEX-TYPE, DIRECTLY COUPLED TO TWO (2) UNITS 25 HP MOTOR INTENDED FOR THE REPLACEMENT OF OLD VACUUM PUMP AT CENTRALIZED MEDICAL GAS PLANT (CMG-VS)	13,020,000.00		
			1. One (1) Lot consist of: 1.1. Two (2) units Oil Lubricated Rotary Vane Vacuum Pump 1.2. Two (2) units A/C Motor 1.3. One (1) Control Panel 1.4. One (1) unit Pressure Vessel 1.5. One (1) Base Frame 1.6. Two (2) units Bacterial Filter 1.7. Exhaust System 2. Technical Requirements/Specifications 2.1. Two (2) units of Rotary Vane Vacuum Pump coupled to a Two (2) units air-cooled A/C motor, 230/240 Volts, 3 Phase 2.2. Pump Capacity: At least 163 SCFM at 19" Hg, Continuous duty, air cooled,, equipped with non-asbestos vane,			

Approved by:

Dean CHARLOTTE M. CHIONG, MD, PhD
Chairperson

(Signature over Printed Name of President / Gen. Manager)

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			<p>having an anti-suck valve, inlet check valve, isolation valve, gauge, flexible hose and hose connector to complete the installation.</p> <p>2.3. Motor: 25 HP, 230/440VAC, 3 Phase, 60Hz, TEFC foot mounted, Hi Efficiency, suitable for continuous operation.</p> <p>2.4. Tank Receiver/vessel: 200 gals. At 200 psi MWP, Vertical, ASME Certified, equipped with Vacuum Gauge, By-pass valve with manual drain system.</p> <p>2.5. Control Panel: Automatic lead/lag sequencing, NEMA 12 enclosure, UL listed, with alarm visual indicator per NFPA 99 standard, has an overload protection and reset switches</p> <p>2.6. Exhaust System: Factory piped with flexible and muffler, steel tubing, flanges and muffler, Exhaust tip to be installed outside CMG Plant.</p> <p>3. System Component:</p> <p>3.1. Rotary Vane Pum and Drive Motor</p>			

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			3.2. Base Frame, Stack-mounted 3.3. Isolation Valve 3.4. Check Valve 3.5. Discharge Separator with drain 3.6. Exhaust Pipe & Muffler with micro mist filter 3.7. Flexible Hose 3.8. Medical Bacterial Filter with transparent bottle 3.9. Pressure Vessel 4. Electrical Component: 4.1. Control Panel, NEMA 12-Fully automatic change over 4.2. Magnetic Contactor 4.3. Circuit Breaker 4.4. Motor starter with Overload Protection 4.5. Standard 2 line HMI including pump run status 4.6. Hold-Off-Automatic (HOA) Selector Switch 4.7. Push Button Switch for "ON" and "OFF" function			
TOTAL APPROVED BUDGET FOR THE CONTRACT:				Php13,020,000.00		

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TERMS OF REFERENCE:

1. Approved Budget for the Contract

- 1.1. For and in consideration of the performance and accomplishment of the **SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF ONE (1) LOT ROTARY VANE VACUUM PUMP FOR MEDICAL USE, FULLY NFPA 99 CERTIFIED, STACK-MOUNTED, DUPLEX-TYPE, DIRECTLY COUPLED TO TWO (2) UNITS 25 HP A/C MOTOR INTENDED FOR THE REPLACEMENT OF OLD VACUUM PUMP AT CENTRALIZED MEDICAL GAS PLANT (CMG-VS PLANT)**, PGH shall pay the contractor the total amount of **Thirteen Million and Twenty Thousand Pesos (Php13,020,000.00)** for the contract price. Subject to pertinent laws on government contracts and auditing procedures.
- 1.2. The contract price is inclusive of all duties and taxes
- 1.3. No changes shall be made on the contract price by reason of escalation in currency.

2. General Requirements:

- 2.1. The Contractor will provide technical supervision, skilled manpower, tools, equipment And highest quality materials within the specified period to complete the project
- 2.2. As-built drawings is to be submitted by the Contractor.
- 2.3. Provide coordination and collaborative works with OETS-MPS to complete respective works in accordance with approved specifications and method of installation.
- 2.4. Provide all materials necessary to complete the works although not specifically mentioned in the specification and working drawings without additional cost to PGH
- 2.5. Comply with all environmental, health and safety regulations required by law.
- 2.6. Ensure the quality of materials and workmanship needed to complete the installation.
- 2.7. Hauling and disposal of waste materials/garbage to designated areas.

3. Projection Duration

- 3.1. The Project duration covering the Supply, Delivery, Installation including testing and commissioning of 1 lot Rotary vane vacuum pump shall be for a period of One Hundred Twenty (120) days from the issuance of Notice to Proceed.

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- 3.2. Exact date of delivery/completion should be reckoned from the date of Contractor's receipt of NTP.
- 3.3. The liquidated damages shall be imposed for the inability of the Contractor to comply with the approved contract for the above project.

4. Scope of Works

- 4.1. Provision and installation of necessary valves and fittings to isolate vacuum pump 1 & 2 prior to dismantling.
- 4.2. Termination of electrical power supply from the main power source.
- 4.3. Dismantling of pump 1 & 2 including motor, control panel and duplex frame.
- 4.4. Chipping and cleaning of area for the installation of tank foundation, stack-mounted frame vibration footing and drain canal.
- 4.5. Installation of the Vacuum system. (Frame, pump assembly, control panel and receiver tank).
- 4.6. Installation of new power supply using appropriate IMC conduit and size of wire as per manufacturer specification (Tapped to dedicated power source).
- 4.7. Replacement of existing Breaker (As per manufacturer required specification).
- 4.8. Installation of all connecting pipes with safety and by-pass valves to hospital main line.
- 4.9. Installation of all filters, exhaust system and all other needed parts to complete the installation. (Exhaust tip Installation to verify on site).
- 4.10. Clearing of the area, disposal of debris properly before turn over
- 4.11. Testing and Commissioning of the unit.

5. Qualification of the Contractor

- 5.1. Participating Supplier/Contractor must have capabilities and competency in supplying and installing medical vacuum system that conforms the NFPA-99 Medical Health Care code.
- 5.2. Participating Supplier/Contractor must have 15 to 20 years in existence in the market and have a similar installation of duplex vacuum pump for hospital use.
- 5.3. Supplier/Contractor must be the exclusive distributor and service provider of the brand they will offer. They should be able to provide well-trained technicians.
- 5.4. Supplier must provide actual training on the actual operation and basic trouble shooting of the medical vacuum system.

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6. Responsibilities of the Contractor

- 6.1. The principal features of the work do not in any way limit the responsibilities of the Contractor to the general description in the scope of works. The Contractor shall perform all the works fully and make operational to the intent of the project.
- 6.2. The Contractor shall be responsible for proper execution and coordination of his work. The Contractor shall schedule and program all necessary work activities according to the specified completion period.
- 6.3. The Contractor shall observe the required standard of safety and procedure and that it shall be properly insured against all risk.
- 6.4. The Contractor shall assign a full time lead engineer/technician as Project-in-Charge (PIC) for the project to supervise the works mentioned herein.
- 6.5. All other items of work not specifically mentioned but are necessary to complete the works in accordance with the plans and specification and other related documents shall be provided by the contractor at no additional cost to PGH.

7. Site Inspection

- 7.1. The Bidders/Suppliers are encourage to visit and examine the site/plant and its surroundings and obtain all information that maybe necessary for the pre-operation of bid.
- 7.2. After visiting the site, bidders shall obtain certificate of inspection from OETS.

8. Codes and Inspection

The Works under this contract are to be installed according to the requirements of the latest NFPA 99 (Health Care Facility Code). All certificate must be submitted as part of bidding documents and all permits required to this work shall be obtained by and at the expense of the Contractor.

9. Warranty

The equipment and workmanship for this installation are guaranteed by Contractor under normal operating condition for a period of Three (3) years from the date of acceptance/final completion of installation. Any works done and part materials found to be defective within that period not attributed to normal wear and tear or incorrect operation shall be replaced free of charge.

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10. Maintenance

Quarterly visit for service and maintenance for a period of Twelve (12) months commencing from the date of final acceptance. Consumables materials not included like oils, filters, etc.

11. Payment

Payment shall be made upon completion of 100% of work/ installation and presentation of turn over documents including all testing report to be acknowledge by PGH-OETS. Payment shall be subject to PGH accounting rules and policies.

12. Liquidated Damages

Failure to comply with the terms and conditions will result in the payment of corresponding penalties based on Revised Implementing Rules (IRR) of the RA 9184.

13. Requirement to be submitted by the Bidder

- 13.1. Product and accessory brochure
- 13.2. SEC registration to prove that the supplier/bidder is in the business of importing and supplying medical vacuum pump
- 13.3. Certificate of the whole system origin.
- 13.4. NFPA 99 Medical Health Care compliant certificate.
- 13.5. ASME certification for receiver tank
- 13.6. Training certificate
- 13.7. Proof that the manufacturer has a presence in any country in Western Europe, USA, Japan and Canada.

NOTE: Please refer to attached layout plan.

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