The Health Sciences Center

End-User:

BIDS & AWARDS COMMITTEE 1 (BAC 1)

Proj. Ref. No.: **BAC1-2024-01-0002**

OFFICE OF THE ENGINEERING & TECHNICAL SERVICES

Project: REPAIR AND RE-WIRING OF ELECTRICAL

FEEDER LINE FOR CANCER INSTITUTE

BUILDING

Contract: <u>Contract</u>

| Item | Qty. | UOM | Item Description | Unit Cost | | ntions included) |
|------|------|-----|---|---------------|------------|---------------------|
| No. | | | | | in figures | in words |
| 1 | 1 | lot | REPAIR AND REWIRING OF ELECTRICAL FEEDER LINE FOR CANCER INSTITUTE BUILDING | 21,143,155.42 | | |
| | | | 1. GENERAL REUIREMENTS | | | |
| | | | a) Contractors interested in submitting proposals for this project must conduct a thorough examination of the project site. All proposals should account for any conditions that could impact the contracted work. The specifications and plans and the scope of work or specifications must be addressed with the PGH Engineer or OETS for clarification. If any work or materials deviate from the drawings or specifications, the contractor is responsible for replacing them at their own expense to ensure compliance. b) The General Contractor shall prepare and submit as-built plans duly signed and sealed by the corresponding Engineer in the same sheet size and scale as the original drawings in two (2) reproducible copies. Electronic Copies of the Asbuilt contract drawings shall also be submitted. The *.PDF format files | | | |

| | Approved by: |
|---|-------------------------------------|
| | |
| | Dean CHARLOTTE M. CHIONG, MD., PhD. |
| | Chairperson |
| (Signature over Printed Name of President / Gen. Manager) | |

Opening of Bids:09 February 2024

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| No. | (4,5) | | | | in figures | in words |
| | | | shall be delivered with the CAD or | | | |
| | | | BIM Files. | | | |
| | | | c) The CONTRACTOR shall do the | | | |
| | | | preparation and submission of as | | | |
| | | | built plans duly signed and sealed | | | |
| | | | by a professional electrical engineer | | | |
| | | | in the same sheet size and scale as | | | |
| | | | the original drawings in four (4) | | | |
| | | | reproducible copies for application | | | |
| | | | of Certificate of Electrical Inspection | | | |
| | | | (CEI) | | | |
| | | | d) CONTRACTOR must be familiarized | | | |
| | | | himself with all laws, decrees, | | | |
| | | | regulations of the Philippines and | | | |
| | | | the Local Government, which may | | | |
| | | | affect or apply to the operations and | | | |
| | | | activities. | | | |
| | | | e) The CONTRACTOR is required to | | | |
| | | | collaborate with all relevant parties | | | |
| | | | to facilitate appropriate phasing or | | | |
| | | | adherence to the approved work | | | |
| | | | scheduled. The contractor must | | | |
| | | | appoint a registered Engineer or | | | |
| | | | Architect to Oversee the work under | | | |
| | | | their purview, and they must be | | | |
| | | | present on the construction site at | | | |
| | | | all times. | | | |
| | | | f) A logbook must be present at the | | | |
| | | | site, documenting daily activities | | | |
| | | | such as weather conditions, | | | 1 |

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| No. | | | - | in figu | in figures | in words |
| | | | deliveries, manpower, and other | | | |
| | | | relevant project-related matters. | | | |
| | | | This logbook will serve as a record | | | |
| | | | for both the contractor and the | | | |
| | | | Project Inspector, and it is required | | | |
| | | | to be submitted to the PGH upon the | | | |
| | | | project's completion. | | | |
| | | | g) The approved plans or drawings | | | |
| | | | must be present at construction site | | | |
| | | | or office of the CONTRACTOR at all | | | |
| | | | times. | | | |
| | | | h) Regular coordination meetings shall | | | |
| | | | be conducted with PGH, contractor | | | |
| | | | and End-user for proper project | | | |
| | | | monitoring. | | | |
| | | | i) The contractor shall provide a | | | |
| | | | complete copy of "As built plans" of | | | |
| | | | the project/unit concerned which | | | |
| | | | shall include all the civil, | | | |
| | | | architectural, plumbing, electrical | | | |
| | | | and other related layouts in 20" x | | | |
| | | | 30" original sheets. It should be | | | |
| | | | properly drawn indicating all the | | | |
| | | | specifications, layouts, tables and | | | |
| | | | necessary data. An initial layout | | | |
| | | | should be submitted in a A3 sheet | | | |
| | | | for checking and approval of Project | | | |
| | | | Engineer. Final "As built plans" shall | | | |
| | | | be submitted in 20" x 30" tracing | | | |
| | | | sheets, 3 blueprints with signature | | | |

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|----------|--------|--|-----------|---------------------|---------------------|
| No. | | | 0 | in figures | in words |
| | | of project engineer, and an electronic Autocad drawing file. A copy of the technical documents and warranties of the items shall also be submitted in soft and hardcopies. j) Existing conditions of the work site shall be documented by the contractor and photos shall be taken before commencement of work to ensure such status. Any damage on the areas due to the contractor's ongoing work shall be restored at his expense. k) The CONTRACTOR shall promptly remove from the premises all rubbish, trash, debris, and all superfluous building materials as soon as possible. After the completion of all works, restore all areas that were damaged as affected by the construction works and leave the site clean to the satisfaction of the Project Inspector or his representative and End-user. l) CONTRACTOR must submit hauling permit to PGH two (2) days before the said activity. m) CONTRACTOR must inform the end-user Engineer if there's any existing | | | |

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|------|------|---|--|--|--|
| | | | | in figures | in words |
| | | within 3 days prior to discovery. | | | |
| | | 2. SUBMITTALS | | | |
| | | Shop drawing, Product Data, and Samples | | | |
| | | a) Submit to the OETS of shop drawings, product data and/or samples of all materials for review. Submit at least three (3) options per material for approval. b) The OETS's review shall be limited to quality and design intent. It shall be the contractor's responsibility to verify quantities and size and make corrections observed and noted by OETS on any returned submissions. | | | |
| | | c) Now work requiring submissions or samples shall commence until submission has been reviewed and signed by the End User and or OETS. d) Final Acceptance of colors and finishes will be made from samples applied on the job based on the signed and approved sample materials. e) All submittals shall be channeled from General contractor to OETS. | | | |
| | Qty. | Qty. UOM | within 3 days prior to discovery. 2. SUBMITTALS Shop drawing, Product Data, and Samples a) Submit to the OETS of shop drawings, product data and/or samples of all materials for review. Submit at least three (3) options per material for approval. b) The OETS's review shall be limited to quality and design intent. It shall be the contractor's responsibility to verify quantities and size and make corrections observed and noted by OETS on any returned submissions. c) Now work requiring submissions or samples shall commence until submission has been reviewed and signed by the End User and or OETS. d) Final Acceptance of colors and finishes will be made from samples applied on the job based on the signed and approved sample materials. e) All submittals shall be channeled | within 3 days prior to discovery. 2. SUBMITTALS Shop drawing, Product Data, and Samples a) Submit to the OETS of shop drawings, product data and/or samples of all materials for review. Submit at least three (3) options per material for approval. b) The OETS's review shall be limited to quality and design intent. It shall be the contractor's responsibility to verify quantities and size and make corrections observed and noted by OETS on any returned submissions. c) Now work requiring submissions or samples shall commence until submission has been reviewed and signed by the End User and or OETS. d) Final Acceptance of colors and finishes will be made from samples applied on the job based on the signed and approved sample materials. e) All submittals shall be channeled from General contractor to OETS. This procedure applies to original | within 3 days prior to discovery. 2. SUBMITTALS Shop drawing, Product Data, and Samples a) Submit to the OETS of shop drawings, product data and/or samples of all materials for review. Submit at least three (3) options per material for approval. b) The OETS's review shall be limited to quality and design intent. It shall be the contractor's responsibility to verify quantities and size and make corrections observed and noted by OETS on any returned submissions. c) Now work requiring submissions or samples shall commence until submission has been reviewed and signed by the End User and or OETS. d) Final Acceptance of colors and finishes will be made from samples applied on the job based on the signed and approved sample materials. e) All submittals shall be channeled from General contractor to OETS. This procedure applies to original |

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|------|------|-----|---|-----------|---------------------|--|
| No. | | | | | in figures in words | in words |
| | | | resubmittals. Each organization shall keep its required number of copies and/or make necessary copies. The contractor will make all corrections noted on check sets, if necessary, and return for review as required by CPDMO. f) All submittals must have a transmittal letter. 3. SITE CONSTRUCTION | | | |
| | | | Site Clearing | | | |
| | | | Clear the area from all obstructions or as affected by the construction works, except those structures indicated on the drawings or designated by the Project Engineer to be left standing. It shall be properly protected from incidental damage due to construction works by the erection of suitable barriers upon approval of the Project Engineer. | | | |
| | | | Site Monitoring | | | |
| | | | Site monitoring shall be a must to the contractor for the effective implementation of the project. Any discrepancies on plans and actual site conditions shall be properly | | | |

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| | | | coordinated with the Project Engineer | | | |
| | | | concerned for verification. Regular | | | |
| | | | coordination meeting shall be done | | | |
| | | | between the contractor or its | | | |
| | | | representative and the Project Engineer concerned at PGH. | | | |
| | | | Utility Services | | | |
| | | | Provision of electric and water meter shall be included in the quotation to be charged to the contractor's overhead. All utility consumption shall be provided with meters to limit the usage of such during working period. | | | |
| | | | Workmanship and Materials | | | |
| | | | All works shall be done in accordance with the requirements of the latest edition of the Philippine Electrical Code and National Safety Code. Nothing contained in these Codes, any discrepancies should be consulted to the Project Inspector/Electrical Engineer. | | | |
| | | | Plans | | | |
| | | | The accompanying drawings shall indicate | | | |
| | | | the general arrangement of the equipment | | | |

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| | | | and other works. When it is necessary to deviate from the arrangement indicated on plans in order to meet the structural conditions, such deviation shall be made at the expense of the Contractor and upon approval from the Project Inspector/ Electrical Engineer. | | | |
| | | | Conductor pathway, Manhole & Breaker shown on the plan are diagrammatic and approximately correct as to location. Minor changes shall be made through the CONTRACTOR at his own expense. | | | |
| | | | Contractor's Representative, Staff and Workmen | | | |
| | | | The Contractor shall keep permanently on the site, a competent Senior Electrical Engineer, having an experience of not less than 5 years, as his representative fully experienced and who has executed as Superintendent of electrical installation works of the type and scale similar or larger than this Project. | | | |
| | | | Civil works | | | |
| | | | CONTRACTOR are liable for equipment to perform the excavation, trench, restoration | | | |

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| | | | and other necessary civil works to finish the project. All tools, equipment & trucks for construction and hauling are carried by contractor with no additional cost. | | | |
| | | | Basic Electrical Materials and Methods | | | |
| | | | Conduit System | | | |
| | | | Intermediate Metal Conduit (IMC) is primarily required for expose work. Conduit runs shall be well supported especially on ceiling, Slab, and facade. Bends and offset shall be avoided if possible, but when necessary it shall be made with an approved Field bend or pipe/conduit bending machine. IMC conduit shall be supplied by reputable manufacturer | | | |
| | | | Polyvinyl chloride (PVC) is primarily required for the trench work. Conduit runs shall be well supported and supplied by reputable manufacturer Restrictions | | | |
| | | | Supply and installation of all material not shown in the drawing nor mentioned in this specification but necessary for the | | | |

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| No. | (4,5) | | | | in figures | in words |
| | | | completion of the construction works shall be included. Coordination with OETS and Project Engineer should be done for proper installation of all wiring systems. | | | |
| | | | Hangers & Supports | | | |
| | | | All electrical pipes and accessories shall be using appropriate hangers and support follow existing features, GI Wires as support is not allowed. All conduit support must be installed every 3 meters. | | | |
| | | | Restoration and Repair | | | |
| | | | Restoration and repair of damage ceiling during construction period must be contractor's liability. | | | |
| | | | Exposed conduit shall be painted same color as the adjacent wall. | | | |
| | | | Testing | | | |
| | | | Complete testing of the system involved in operation and provision of all system apparatus for making test and guarantee for a period of one (1) year after acceptance of the project and shall agree to repair and make good at no additional cost | | | |

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| No. | | | • | | in figures | in words |
| | | | to the end user. | | | |
| | | | Supply all instruments and tools required for carrying out the tests. | | | |
| | | | CONTRACTOR must invite End-user or PGH Engineer in schedule to witness the testing. CONTRACTOR must provide test report signed by their Engineer or Manager onsite. Testing must are the following but not limited to: | | | |
| | | | Verification of polarity Insulation resistance test Continuity testing Phase rotation Testing of breakers | | | |
| | | | Conductors and Cables | | | |
| | | | Wires shall be type THHN 600 volts insulation approved type building, for feeder line it must be Five (5) sets of [Three (3) - No. 250 mm squared THHN with 1-50 mm squared for grounding]. This type of wires are for Central Block to Cancer Institute Electrical Room | | | |
| | | | For Cancer Institute Electrical Room to Cancer Institute Elevator. Wires shall be | | | |

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| | | | THHN 600 volts insulation approved type building, feeder line size must be Two (2) Sets of [Three (3) - 200 mm squared THHN with 38 mm squared THHN grounding]. | | | |
| | | | For Central Block to Powerhouse. Wires shall be THHN 600 volts insulation approved type building, feeder line size must be Two (2) Sets of [Three (3) - 250 mm squared THHN with 50 mm squared THHN grounding] additional to existing. | | | |
| | | | Wires must be brand new, no damage or scratch and must be produced by reputable manufacture in the Philippines. | | | |
| | | | Raceway & Boxes | | | |
| | | | All Conduit boxes and fittings shall be standard manufactured by reputable electrical manufacturers. All conduit boxes not over 100 cubic inches in size, if constructed of sheet metal, the metal shall not be less than No. 14 US gauge and shall be set flush with the surface of the structure in which they are installed and where conduit runs are concealed. | | | |
| | | | Panel board & Circuit breakers | | | |

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| | | | Supply and Installation of new Main Circuit Breaker | | | |
| | | | Main Panel (Proposed)- Located at Power House Air Circuit Breaker - Free-Standing 1200 AT, 3-phase, 480V in NEMA 1 Main Panel (Proposed)- Located at Central Block Air Circuit Breaker - Free-Standing 1200 AT, 3-phase, 480V in NEMA 1 Main Distribution Panel (Proposed) Located at Cancer Institute Building New Electrical Room Air Circuit Breaker - Free-Standing 1200 AT, 3-Phase, 480V in NEMA 1 With 5 branch circuits 1-800 AT, 800 AF, 3 pole, 480V, MCCB 1-250 AT, 250 AF, | | | |

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| | | | MCCB | | | |
| | | | • 1-175 AT, 200 AF, | | | |
| | | | 3 pole, 480V, | | | |
| | | | MCCB | | | |
| | | | • 1-160 AT, 200 AF, | | | |
| | | | 3 pole, 480V, | | | |
| | | | MCCB | | | |
| | | | • 1-Space, 400 AF, 3 | | | |
| | | | pole, 480V, MCCB | | | |
| | | | Distribution Panel (Existing) - | | | |
| | | | Located at Cancer Institute Building | | | |
| | | | Old Electrical Room | | | |
| | | | Moulded Case Circuit | | | |
| | | | Breaker (New) | | | |
| | | | > 1-600AT, 3 pole, 230V | | | |
| | | | Elevator Panel (Existing) - Located | | | |
| | | | at Cancer Institute Building Elevator | | | |
| | | | Lobby | | | |
| | | | Moulded Case Circuit | | | |
| | | | Breaker (New) | | | |
| | | | > 1-600AT, 3 pole, | | | |
| | | | 230V | | | |
| | | | The enclosure shall be galvanized | | | |
| | | | steel of code thickness, powder | | | |
| | | | coated, enamel finish and shall be | | | |
| | | | installed plumb and symmetrical | | | |
| | | | with the surrounding devices | | | |

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| No. | | | | | | in figures | in words |
| 1 | | | • | Dismantling of existing all panel | | | |
| | | | | board, breakers and cable to finish | | | |
| | | | | the scope and job | | | |
| | | | • | Electrical tapes, rubber tapes, pull | | | |
| | | | | wires, and assorted screws. | | | |
| | | | Scope | of Works | | | |
| | | | a) | Complete Supply and installation of | | | |
| | | | | wires and cable shall be included in | | | |
| | | | | this scope of works. | | | |
| | | | b) | Tagging of all corresponding branch | | | |
| | | | | circuit as indicated on the | | | |
| | | | | respective panel board's directory | | | |
| | | | | using tagging machine. | | | |
| | | | c) | Wires must be color coded using the | | | |
| | | | | standard color coding | | | |
| | | | d) | Provide Directory in all Electrical | | | |
| | | | | Panels. | | | |
| | | | _ | Balancing of loads. | | | |
| | | | f) | Chipping & Restoration works must | | | |
| | | | | be done by CONTRACTOR. A | | | |
| | | | | minimum of 300mm. | | | |
| | | | g) | Coring and Chipping works shall be | | | |
| | | | | performed to give way for the | | | |
| | | | | homerun of the wires. | | | |
| | | | h) | Installation of tagging for protection | | | |
| | | | | and conductor. | | | |

| | Approved by: |
|--|-------------------------------------|
| | Dean CHARLOTTE M. CHIONG, MD., PhD. |
| Signature over Printed Name of President / Gen. Manager) | Chairperson |

Opening of Bids:09 February 2024

The Health Sciences Center

End-User:

BIDS & AWARDS COMMITTEE 1 (BAC 1)

Proj. Ref. No.: **BAC1-2024-01-0002**

OFFICE OF THE ENGINEERING & TECHNICAL SERVICES

Project: **REPAIR AND RE-WIRING OF ELECTRICAL**

FEEDER LINE FOR CANCER INSTITUTE

BUILDING

Contract: <u>Contract</u>

| Item | Qty. | UOM | Item De | scription | Unit Cost | Quota (all taxes | |
|------|------|-----|--------------------|--------------------------|-----------|---------------------|----------|
| No. | | | | • | | in figures | in words |
| | | | i) CONTRACTOR | to provide conduit | | | |
| | | | spacer; | | | | |
| | | | j) Cable Warning | g tape before | | | |
| | | | restoration of | trench. | | | |
| | | | k) Application of | sealant in conduit for | | | |
| | | | protection of o | conductors in | | | |
| | | | manhole. | | | | |
| | | | l) Testing & Con | nmissioning. | | | |
| | | | 4. PAYMENT CONDI | TIONS | | | |
| | | | a) The CONTRAC | CTOR may submit a | | | |
| | | | request for pa | yment for Work | | | |
| | | | accomplished | Such request for | | | |
| | | | payment shall | be verified and | | | |
| | | | certified by th | e Procuring Entity's | | | |
| | | | Representativ | e/Project Engineer. | | | |
| | | | Materials and | equipment delivered | | | |
| | | | on the site but | not completely | | | |
| | | | installed or pu | it in place shall not be | | | |
| | | | included for p | ayment. | | | |
| | | | b) The first prog | ress payment may be | | | |
| | | | paid by the Pr | ocuring Entity to the | | | |
| | | | | provide that at least | | | |
| | | | | nt (20%) of the work | | | |
| | | | has been acco | mplished as certified | | | |
| | | | by the PGH Re | - | | | |
| | | 1 | c) Progress billir | ng must be based on | | | |

| Dean CHARLOTTE M. CHIONG, MD., PhD. |
|-------------------------------------|
| Chairperson |
| |

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|------|------|-----|---------------------------------------|-----------|---------------------|----------|
| No. | | | · | | in figures | in words |
| | | | the physical accomplishment & | | | |
| | | | installed on site. Installed, laid, | | | |
| | | | tested and approved materials | | | |
| | | | based on the approved drawings are | | | |
| | | | only applicable for billing. | | | |
| | | | d) Items of works which price "0" | | | |
| | | | (zero) has been entered will not be | | | |
| | | | paid for Procuring Entity or PGH | | | |
| | | | Administration and shall be deemed | | | |
| | | | covered by other rates and prices in | | | |
| | | | the Contract | | | |
| | | | e) The contractor shall pay the | | | |
| | | | liquidated damages to the Procuring | | | |
| | | | Entity for each day that the | | | |
| | | | Completion Date is later than the | | | |
| | | | Intended Completion Date. The | | | |
| | | | applicable liquidated damages is at | | | |
| | | | least one - tenth (1/10) of a percent | | | |
| | | | of cost of the unperformed portion | | | |
| | | | for every day of delay. The total | | | |
| | | | amount of liquidated damages shall | | | |
| | | | not exceed ten percent (10%) of the | | | |
| | | | amount of the contract. The | | | |
| | | | Procuring Entity may deduct the | | | |
| | | | liquidated damages from payments | | | |
| | | | due to the Contractor. Payment of | | | |
| | | | liquidated damages shall not affect | | | |

| | 1 | | |
|------|---|--|---------------|
| | liquidated damages shall not affect | | |
| | | Approved by: | |
| | | Dean CHARLOTTE M. CHION Chairperson | IG, MD., PhD. |
| | native over Drinted Name of Descident (Con Manager) | | |
| (Sig | nature over Printed Name of President / Gen. Manager) | | |

Opening of Bids:09 February 2024

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|------|------|-----|--|-----------|---------------------|----------|
| No. | | | | | in figures | in words |
| | | | the Contractor's liabilities. Once the | | | |
| | | | cumulative amount of liquidated | | | |
| | | | damages reaches ten percent (10%) | | | |
| | | | if the amount of this Contract, | | | |
| | | | without prejudice to other course | | | |
| | | | of action and remedies available | | | |
| | | | under the circumstances. | | | |
| | | | | | | |
| | | | 5. GUARANTEE | | | |
| | | | The Contractor shall guarantee all works | | | |
| | | | under this contract to be free from any | | | |
| | | | technical, material, workmanship | | | |
| | | | and/or factory defects and shall replace | | | |
| | | | and repair to the satisfaction of the | | | |
| | | | Project Architect/Engineer and/or to the | | | |
| | | | Chief of CPDMO on any part or portion of | | | |
| | | | the work which may fail within a period | | | |
| | | | of one (1) year after the final acceptance | | | |
| | | | of the system. | | | |
| | | | 6. COMPLETION PERIOD | | | |
| | | | The Contractor is given Sixty-Three | | | |
| | | | (63) calendar days to execute the | | | |
| | | | repair works including the installation | | | |
| | | | all system requirements. The Contractor | | | |
| | | | shall coordinate to the PGH Engineer | | | |

| | Approved by: |
|---|---|
| (Signature over Printed Name of President / Gen. Manager) | Dean CHARLOTTE M. CHIONG, MD., PhD. <i>Chairperson</i> |

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End-User:

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|------|------|--------|---|------------------|---------------------|----------|
| No. | | | - | | in figures | in words |
| | | | and End-users for the schedule of testing of systems and other related job. | | | |
| | T | otal A | pproved Budget for the Contract: | PHP21,143,155.42 | | |

| Approved by: | |
|-------------------------------------|---|
| Dean CHARLOTTE M. CHIONG, MD., PhD. | _ |
| Chairperson | |

Opening of Bids:09 February 2024

ABC: **PHP21,143,155.42**