



**Republic of the Philippines
Department of Science and Technology
PHILIPPINE NUCLEAR RESEARCH INSTITUTE**

BID DOCUMENTS

UPGRADING OF ARC BUILDING (CY 2023) - DESIGN AND BUILD

**PNRI BIDS AND AWARDS COMMITTEE
Commonwealth Avenue, Diliman, Quezon City**

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

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.

CDA – Cooperative Development Authority.

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])

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.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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]).

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.

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.

PCAB – Philippine Contractors Accreditation Board.

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.

UN – United Nations.

Section I. Invitation to Bid

Republic of the Philippines
Department of Science and Technology
PHILIPPINE NUCLEAR RESEARCH INSTITUTE
Commonwealth Avenue, Diliman, Quezon City

INVITATION TO BID FOR THE UPGRADING OF ARC BUILDING (CY 2023) - DESIGN AND BUILD

1. The Philippine Nuclear Research Institute, through the General Appropriations Act (GAA) for 2023 intends to apply the sum of ***Thirteen Million One Hundred Ninety Nine Thousand Nine Hundred Eight Pesos and Fifty Four Centavos (₱13,199,908.54)*** being the Approved Budget for the Contract (ABC) to payments under the contract for the project ***Upgrading of ARC Building (CY 2023) – Design and Build*** under ***PR No. 23-04-0489***. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The Philippine Nuclear Research Institute now invites bids for the above Procurement Project. Completion of the Works is ***two hundred (200) government working days***. Bidders should have completed 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).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from the Philippine Nuclear Research Institute and inspect the Bidding Documents at the address given below.
5. A complete set of Bidding Documents may be acquired by interested Bidders from ***9:00 am to 3:00 pm*** on ***June 13 – July 17, 2023***, Monday thru Thursday, from the Philippine Nuclear Research Institute and upon payment of a non-refundable fee, pursuant to the latest Guidelines issued by the GPPB, in the amount of ***Twenty Five Thousand Pesos (₱25,000.00)*** to the PNRI Cash Section, FAD.

It may also be downloaded from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Philippine Nuclear Research Institute, provided that bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The Philippine Nuclear Research Institute will hold a Pre-Bid Conference on **July 05, 2023, Wednesday, 10:00 AM** through videoconferencing/webcasting via Microsoft Teams, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the **Motorpool Area, PNRI Compound**, on or before **July 17, 2023, Monday, 10:00 AM**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. Bid opening shall be on **July 17, 2023, 1:30 PM** at the **Auditorium, NART, Building, PNRI Compound, through Video Conferencing**. A link will be provided to Bidders/bidders' representatives who choose to attend the activity upon manual submission of bids on the prescribed time.
10. The Philippine Nuclear Research Institute 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 Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

PHILIPPINE NUCLEAR RESEARCH INSTITUTE

Hidie S. Gocuyo , Administrative Officer V

Head BAC Secretariat

929-6011 to 19 Loc. 259/Fax. 920-8760

hsgocuyo@pnri.dost.gov.ph

12. You may visit the following websites for downloading of Bidding Documents:

<http://www.philgeps.gov.ph>

<http://www.pnri.dost.gov.ph>

Vallerie Ann I. Samson, Ph.D.
Deputy Director and Chairperson
Bids and Awards Committee

Section II. Instructions to Bidders

1. Scope of Bid

The Philippine Nuclear Research Institute invites Bids for the project *Upgrading of ARC Building (CY 2023) – Design and Build*.

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

21. The GOP through the source of funding as indicated below for **2023** in the amount of ***Thirteen Million One Hundred Ninety Nine Thousand Nine Hundred Eight Pesos and Fifty Four Centavos (₱13,199,908.54)***

22. The source of funding is: NGA, the General Appropriations Act

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 Manual 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 invitation to bid 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 inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) 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, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, 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

51. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
52. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.
53. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
54. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated 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.

7. Subcontracts

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 fifty percent (50%) of the Project.

The Procuring Entity has prescribed that Subcontracting is not allowed.

71. *[If Procuring Entity has determined that subcontracting is allowed during the bidding, state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
72. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

73. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address *{[insert if applicable]}* 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

101. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
102. 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. 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.
103. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
104. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

105. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

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 IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. 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. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. 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.
- 14.2. Payment of the contract price shall be made in Philippine Pesos.

15. Bid Security

- 15.1. 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**.

- 152 The Bid and bid security shall be valid for *one hundred twenty (120) days*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

If the Procuring Entity allows the submission of bids through online submission to the given website 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.

17. Deadline for Submission of Bids

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**.

18. Opening and Preliminary Examination of Bids

- 18.1 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.

- 18.2 The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

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

- 19.2 If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

193. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

| ITB Clause | |
|-------------------|--|
| 3 | Prospective bidders whose experience is at least ten (10) years shall be allowed to participate in the bidding. |
| 5.2 | The Bidder must have completed, within the period specified in the Invitation to Bid, a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC. However, contractors under Small A and Small B categories without similar experience on the contract is allowed to bid since the ABC is not more than the Allowable Range of Contract Cost (ARCC) of their registration. Further, bidders whose offices are not based in Metro Manila should have completed projects within Metro Manila similar to the project to bid, so that the Procuring Entity can verify the quality of workmanship. For this purpose, contracts similar to the Project refer to General Building |
| 7.1 | Subcontracting is not allowed. |
| 10.3 | The Bidder must be a PCAB licensed contractor with <i>License Classification on General Building</i> at least <i>Category C or D</i> . The Bidder must also be a registered contractor for government projects with Size Range at least <i>Small B</i> for <i>Building and Industrial Plant</i> . |
| 10.4 | The minimum work experience requirements of key personnel to be assigned for the project shall be provided in the Key Personnel (Format of Bio-Data) form. |
| 10.5 | The minimum major equipment requirements for the project shall be provided in the List of Equipment, Owned or Leased and/or under Purchase Agreements, Pledged to the Proposed Contract form. |
| 12 | No further instructions. |
| 15.1 | <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 ₱263,998.17 if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than ₱659,995.43 if bid security is in Surety Bond. <p>If a surety bond will be used, the following are the requirements:</p> <ul style="list-style-type: none"> a. <i>Must have the original receipt;</i> b. <i>Must be callable on demand;</i> c. <i>Certified by the Insurance Commission that the surety company is authorized to issue such security.</i> |

| | |
|------|--|
| 15.2 | The Bid and bid security shall be valid for <i>one hundred twenty (120) days</i> |
| 16.0 | An additional two (2) copies (Copy 1 and Copy 2) of the first (<i>Technical</i>) and second (<i>Financial</i>) components of its Bid are to be submitted by each bidder. |
| 19.2 | Partial bids are not allowed. |
| 20 | No further instructions. |
| 21 | Additional contract documents relevant to the Project to be submitted by the successful bidder: (1) Construction Schedule and S-curve (2) Manpower Schedule (3) Construction Methods (4) Equipment Utilization Schedule (5) Construction Safety and Health Program approved by the DOLE (6) PERT/CPM and (7) All Risk Insurance |

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.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

31 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

32 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

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

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in ITB Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex “E” of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor’s Bid shall be used for small additional amounts of work only when the Procuring Entity’s Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor’s accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex “E” of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity’s Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- 15.1.** If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the **SCC**.
- 15.2.** If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity’s Representative’s approval, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Special Conditions of Contract

| GCC Clause | | | | | | | |
|------------------------------------|--|--------------------------|---|-------------------------------|--|------------------------------------|--|
| 2 | The Intended Completion Date is May 2024. | | | | | | |
| 3.1 | No further instructions. | | | | | | |
| 4 | <p>The Contractor shall employ the following Key Personnel:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">(a) Registered Architect</td> <td style="width: 50%;">(d) Foreman (with 5 years supervisory experience)</td> </tr> <tr> <td>(b) Registered Civil Engineer</td> <td>(e) Skilled Workers (Carpenter Mason, Electrician, Plumber and Welder with at least 5 yrs. experience)</td> </tr> <tr> <td>(c) Registered Electrical Engineer</td> <td></td> </tr> </table> <p>Note: Foreman and workers are required to be full time/present on site throughout the duration of the contract.</p> <p>The Contractor shall provide appropriate PPE to workers and to all other persons who are either authorized or allowed to be at the site.</p> | (a) Registered Architect | (d) Foreman (with 5 years supervisory experience) | (b) Registered Civil Engineer | (e) Skilled Workers (Carpenter Mason, Electrician, Plumber and Welder with at least 5 yrs. experience) | (c) Registered Electrical Engineer | |
| (a) Registered Architect | (d) Foreman (with 5 years supervisory experience) | | | | | | |
| (b) Registered Civil Engineer | (e) Skilled Workers (Carpenter Mason, Electrician, Plumber and Welder with at least 5 yrs. experience) | | | | | | |
| (c) Registered Electrical Engineer | | | | | | | |
| 5 | Within seven (7) calendar days from receipt of the Notice of Award, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR or a Performance Securing Declaration. | | | | | | |
| 6 | A Site Inspection is required to prospective bidders. A Certificate of Site Inspection shall be issued by PNRI and will form part of Eligibility Requirements. | | | | | | |
| 7.2 | <p>Warranty:</p> <p>The warranty shall be based on prescribed warranty provisions of the 2016 Revised IRR of RA 9184.</p> <ol style="list-style-type: none"> 1. From the time project construction commenced up to final acceptance, the contractor shall assume full responsibility for the following: <ol style="list-style-type: none"> a) any damage or destruction of the works except those occasioned by force majeure ; and b) safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the works, equipment, installation and the like to be affected by his construction work. | | | | | | |

| | |
|------|---|
| | <p>2. One (1) year from project completion up to final acceptance or the defects liability period.</p> <p>The contractor shall undertake the repair works, at his own expense, of any damage to the infrastructure on account of the use of materials of inferior quality, within ninety (90) days from the time the HoPE has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand.</p> <p>The warranty against Structural Defects and Failures shall be covered for Five (5) years from final acceptance, except those occasioned by force majeure.</p> |
| 10 | Day works are applicable at the rate shown in the Contractor's original bid. |
| 11.1 | The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <i>five (5) days</i> of delivery of the Notice of Award. |
| 11.2 | <p>The period between Program of Work updates should not be longer than ten (10) days</p> <p>The amount to be withheld for late submission of an updated Program of Work is <i>Twenty Thousand Pesos (₱20,000.00)</i>.</p> |
| 13 | The amount of the advance payment shall not exceed 15% of the total contract price. Payment shall be made upon the completion and approval of the Final Drawings, Specifications and other relevant documents. |
| 14 | <p>The Contractor can only submit a request for progress payment under the following schedule Statement of Work Accomplished (SWA):</p> <p>Progress Bill No. 1: 25% or more work accomplished Progress Bill No. 2: 50% or more work accomplished Progress Bill No. 3: 75% or more work accomplished Final Bill</p> <p>Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Materials and equipment delivered on the site but not completely put in place shall not be included for payment.</p> |
| 15.1 | <p>The Contractor shall submit construction plans, showing the detailed drawing plans design prior to construction commencement.</p> <p>The Contractor shall submit as-built drawings after project completion.</p> |
| 15.2 | The Final Payment shall be withheld for failing to produce "as built" drawings. |

Section VI. Specifications

I. SCOPE OF WORKS

A. GENERAL REQUIREMENTS

1. Mobilization/Demobilization (Manpower, Tools, Materials, Equipment etc.)
2. Bonds/Insurance
3. Temporary Facilities and Fencing (Storage Facilities)
4. As-Built Plan
5. Project Billboard

B. PREPARATION OF DESIGN DRAWINGS AND DOCUMENTS

1 Schematic Design Phase

- 1.1 The design and build contractor will confer with the owner to a certain and confirm the requirements of the plans
- 1.2 Prepare schematic design studies based on project requirements leading to a recommended solution including a general description of the project for approval by PNRI

2 Design Development Phase

- 2.1 Prepare from the approved schematic design study, the design developments consisting of plans, elevations, and other drawings to illustrate the size and character of the project
- 2.2 Prepare an outline of specifications showing the kind of materials intended to be used and the structural concept. The types of utility system and equipment to be installed and the other items of work that may be required based on the requirements of the project
- 2.3 Provide the owner (PNRI) (2) two sets of design development for review and approval by the owner. One shall be properly signed and approved by the owner and returned to the contractor of the design and build

3 Contract Document Phase

- 3.1 The design and build contractor prepares from the approved design and development documents, the complete construction drawings, specifications setting forth in the detail of the work required for the architectural engineering design and other service connected equipment, utilities, and related works based on the requirements of the project

- 3.2 Submit breakdown of detailed cost estimate of the project based on quantities areas, volumes, and weight as parameters based on the requirements of the project
- 3.3 "Submit to the PNRI the following output of the Detailed Architectural and Engineering Design (DAED) based on the requirement of the project (signed and sealed) by Professional Engineers
 - a. *1 set - Original plans*
 - b. *5 sets - Blueprints*
 - c. *Electronic copy of plans (CAD files)*

All copies of the plans necessary shall be printed in standard size 20" x 30" signed and sealed by licensed Professional Engineers including bill of materials, quantities, estimates, and other necessary documents required by the project

C. CONSTRUCTION (CIVIL, ELECTRICAL, MECHANICAL AND COMMUNICATION)

1 PROVISION OF NEW BUILDING EXTENSION ON TOP OF EXISTING 2ND FLOOR CONCRETE SLAB A LEFT SIDE OF ARC BUILDING (RADIATION GRAFTNG WET LABORATORY)

BUILDING FLOOR AREA = (+/-) 200.00 SQ.M.

- 1.1 Site Works
- 1.2 Concrete Works
- 1.3 Rebar Works
- 1.4 Formworks and Scaffoldings
- 1.5 Masonry Works
- 1.6 Carpentry Works
- 1.7 Metal Works (Ceiling Support)
- 1.8 Aluminum / Glass Works
- 1.9 Painting Works
- 1.10 Plumbing Works
- 1.11 Electrical Works
- 1.12 Demolition of existing concrete topping including existing waterproofing materials and disposal (Roof Deck open space) (+/-) 250.00 SQ.M.

2 PROVISION OF NEW STORAGE ROOM BUILDING

BUILDING FLOOR AREA = (+/-) 25.00 SQ.M.

REINFORCED CONCRETE SIDEWALK = (+/-) 30.00 SQ.M.

- 2.1 Site Works
- 2.2 Concrete Works
- 2.3 Rebar Works
- 2.4 Formworks and Scaffoldings
- 2.5 Masonry Works
- 2.6 Carpentry Works
- 2.7 Metal Works (Ceiling Support and Roof Frame/Truss)
- 2.8 Tile Works

- 2.9 Doors and Windows
- 2.10 Painting Works
- 2.11 Plumbing Works
- 2.12 Tinsmithry Works
- 2.13 Electrical Works

3 Waterproofing Works

(See detailed scope of works)

- 3.1 Removal of all existing waterproofing materials including hauling and disposal from ARC Building to disposal area outside the PNRI Compound
- 3.2 Cleaning and removal of any other contaminants that may affect the complete adhesion of waterproofing materials on the concrete surface and waste disposal (surface preparation)
- 3.3 Application of injectable epoxy for the repair of hairline cracks and other structural defects through injection or hand grouting
- 3.4 Application of 3.0mm thk. torch applied membrane waterproofing coated with primer bitumen with granules mineral embedded in the top surface including coating the entire concrete surfaces to be waterproofed with concrete primer
- 3.5 Concrete topping of at least (+/-) 1" thick with 1" x 1" G.I. wire reinforcement on top of new 3.00mm thick torch applied membrane waterproofing
- 3.6 Removal and disposal of three (3) stainless steel tank including pipings and fittings
- 3.7 Flood testing of roof deck for forty-eight (48) hours
- 3.8 Cleaning and disposal of waste materials

C.1 MECHANICAL WORKS (Supply and Installation of Air Condition Units)

- 1 Chemistry Research Section (CRS)**
 - 1.1 ARC Basement
 - 1.2 ARC Ground Floor, Central Laboratory
 - 1.3 ARC Second Floor
 - 1.4 RBA Laboratory 2
 - 1.5 Radiation Processing Laboratory

2 PNRI R3U Laboratories

2.1 ChemBio Lab

2.2 Radiation Grafting Wet Laboratory

3 Health Physics Research Section (HPRS)

3.1 ARC First Floor, HPRS Lab

3.2 ARC Second Floor, HPRS Lab

D BMRS Microbiological and Molbio laboratories

1 Civil Works

1.1 Application of Self-leveling Epoxy floor coating at BMRS Microbiological and Molbio laboratories (Sika brand or Equal)

2 Electrical Works

2.1 Installation of new slots of UV lamp and ceiling exhaust fan in the Microbiological Laboratory Preparation 1 and 2 area including its electrical distribution circuits and switches

I. MATERIAL SPECIFICATIONS

Concrete Works

| | |
|-------------------|---|
| Concrete | Class "A" (1:2:3 mixture), 3,000 psi (Site mixed) |
| Gravel | 3/4" crushed |
| Cement | Portland |
| Sand | White sand |
| Deformed bar | Grade 33 reinforced steel bars |
| G.I. Chicken wire | 1" x 1" Spacing |
| Concrete topping | (1:2 mixture) |
| Cracks Sealant | Structural grade epoxy |

Masonry Works

| | |
|--------------|--------------------------------|
| Cement | Portland |
| Sand | White sand |
| Deformed bar | Grade 33 reinforced steel bars |

Tile Works

| | |
|---------------|-----------|
| Tile adhesive | ABC Brand |
| Tile grout | ABC Brand |
| Cement | Portland |

Carpentry Works

| | |
|--------------------|--------------------|
| Fiber Cement board | 5.5mm and 12mm thk |
| Gypsum board | 12mm thk |

Painting Works

| | |
|-----------------------|---|
| Paint | Latex paint for Masonry and Ceiling (Boysen), 3 coats |
| Paint | Epoxy paint for Metals and Flooring (Boysen), 3 coats |
| Paint | Quick Dry Enamel for Wooden (Boysen), 3 coats |
| Skimcoat | ABC Brand (Surface preparation) |
| Epoxy (Self-leveling) | Sika brand or equivalent |

Plumbing Works

| | |
|------------------------|---|
| PVC Pipes and Fittings | Neltex brand or equivalent (Series 1000 Orange color) |
| PPR pipes and Fittings | MEGAGREEN or equivalent |
| Emergency Shower | Stainless Steel Type 304 |
| Waterproofing | 3.00mm thk. Torch-applied membrane waterproofing coated with primer bitumen with granules mineral embedded on top surface |

Doors and Windows

| | |
|-----------------|-------------------------------|
| Doors and Jambs | Louvered, metal steel door |
| Doors and Jambs | Aluminum with ¼” bronze glass |
| Windows | Aluminum with ¼” bronze glass |
| Door Hinges | Stainless steel |
| Door Lockset | Stainless steel |

Tinsmithry Works

| | |
|------------|--|
| Roofing | 0.50mm thk, long span, rib-type |
| Sealant | Vulcaseal or equivalent |
| Insulation | Polyethylene foam with aluminum foil on both sides with chicken wire support |

Electrical Works

| | |
|------------------------------|--|
| Main Circuit Breaker | Industrial Type, UL Listed, MCCB rated 250V/600V, G.E. or better |
| Distribution Circuit Breaker | Bolt-on and Commercial Type, 22 KAIC, G.E. or Better |
| Enclosed Circuit Breaker | Powder Coated Finish, with labeled Ampere Rating |
| Wires/Cables | THHN/THWN, stranded and rated 600V, UL Listed |
| Rigid Steel Conduit | Schedule 40, Mayer Brand or better |
| uPVC Pipe | Schedule 40, Emerald brand or better |
| Lighting Switches | Conform to the IEC60669-1 standard (16A 250V~) |
| Duplex Convenience Outlet | Socket Outlets conform to the IEC60884-1 standard, 16A, 250 Full rating |
| Pinlight Fixture | Recessed type, 8 inches diameter, aluminum casing with 12W LED Bulb |
| Fluorescent Fixture | T-8 Aluminum Louver Recessed Type, Mirrorized, 1 x 18W, 600x1200x65 mm LED |
| Fluorescent Fixture | Weatherproof, Moisture Proof, IP65, T8, 18W, Single LED |

| | |
|-------------|--|
| Panel board | Powder Coated finish with ground terminals |
| Exhaust Fan | 10 inches diameter blade, with gravity shutter |

Mechanical Works

| | |
|--|---|
| Air Conditioning Unit (window type) | 2.5 hp, 21,600 kJ/hr cooling capacity, inverter technology, digital with remote control, 230 V / 60 Hz, with built-in automatic timer function |
| Air Conditioning Unit (wall-mounted) | 1.0 hp, 10,660 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz, with built-in automatic timer function |
| Air Conditioning Unit (wall-mounted) | 1.5 hp, 11,020 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz, with built-in automatic timer function |
| Air Conditioning Unit (wall-mounted) | 2.0 hp, 18,750 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz, with built-in automatic timer function |
| Air Conditioning Unit (wall-mounted) | 2.5 hp, 21,600 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz, with built-in automatic timer function |
| Air Conditioning Unit (ceiling-mounted) | 3.0 hp, 29,520 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz, with built-in automatic timer function |
| Exhaust Fan (wall-mounted) | 450 cfm, 10" Ø, with damper, 230 V / 60 Hz |
| Exhaust Fan (ceiling-mounted) | 150 cfm, 12" grille with 4" Ø duct and vent cover, 230 V / 60 Hz |
| Stainless Steel Island Type Fume Hood Canopy with exhaust blower ducting, exhaust stack and supports (for FTIR Room) | Size: Width: 36" x Depth: 24" x Height: 25"; Body: 304 Stainless Steel, Gauge 16, heavy duty; Duct Port: 6" Ø Stainless Steel Pipe; Exhaust Ducting: 6" Ø PVC; Exhaust Blower: Backward curved impeller 480 CFM, 6" Ø inlet, vertical discharge, epoxy coated blades and steel body, 230 VAC / 60 Hz, complete with elbows, coupling, fittings, and weather cap |
| Laboratory Fume Hood with ducting and supports (for Radiation Grafting Wet Lab.) | Size: Width: 59" x Depth: 30" x Height: 96" including cabinet, Fumehood made of S/S 316 material, Interior: made of S/S 316 material G18; Exterior: made |

of S/S 316 material G18; Built-in corrosion resistant motor/blower assembly with 3/4 hp TEFC 1725 RPM, 230 V, with corrosion resistant fiber glass blower housing, polypropylene blower wheel, with adjustable baffle made of S/S 316, acid resistant fiberglass dash board, remote controlled serviced fixtures, for gas and water, with wash down system and drainage through 1 – vapor-proof lamp assembly, 220 V; 1 – motor and light switch; 2 – electrical outlet 220 v; 1-2 door wooden base cabinet with rubber vinyl base; Ducting: 8” diameter ducting, made of acid resistant fiberglass material complete with elbows, coupling, fittings and weather cap

IV. CONSTRUCTION REQUIREMENTS

A. CIVIL WORKS

A.1 Welding Works

1. HOT WORKS PERMIT shall be secured prior to all welding works. Full safety gear shall be provided to all welders. Welding machine, cutting tools, grinding tools shall be in good operational condition;
2. Electrodes shall be stored in unopened original containers. They shall be stored adequately to prevent moisture loss or moisture absorption and shall be handled in such a manner so as to avoid the damage of coating;
3. Electrodes when used shall be free of rust, oil, grease, earth or any other matter which could be harmful for the quality of welding. The electrodes used shall be suitable to the welding process and the base metal and the weld properties shall not be lower than those of base metal;
4. The ends to be welded shall be properly cleaned. All paint, oil, grease, rust and oxide in general shall be removed, as well as all earth, sand or any other material which could be harmful to the welding. Ends shall be totally dry when welded;
5. Pieces to be welded shall be aligned and spaced in a suitable manner, so as to hold the ends during welding at a distance to ensure full penetration. Root opening shall not be more than as specified. Internal misalignment shall not exceed 1.5 mm;
6. At each interruption of welding, and after each run of welding is completed, chipping and slag removal shall be done;
7. When the welding is complete, but joints shall have a cover pass. It shall be slightly conveyed and fuse into the surface of the base metal in such a manner as to have a gradual notch-free finish and a good fusion at the joint edges. It shall not be chipped after

completion. Welds shall have a regular appearance and shall be free from defects.

A.2 CONCRETE WORKS

1. All concrete work shall be done in good workmanship and shall conform with the standard practice;
2. Only Portland cement shall be used;
3. Sand shall be S-1 or white sand;
4. Gravel shall be ¾" – crushed gravel;
5. Concrete proportioning shall be class "A" (1:2:3 1 part cement, 2 parts sand & 3 parts gravel).

A.3 PLUMBING WORKS

1. All dimensions such as pipe size are in inches and millimeters unless otherwise noted;
2. All drainage lines shall maintain a minimum slope of 2% unless otherwise noted;
3. All water lines shall be hydrostatically tested at 1034 kPa (150 psi);
4. All pipes shall be embedded on concrete.

A.4 WATERPROOFING WORKS

1. Removal of all existing waterproofing materials including hauling and disposal from ARC Building to disposal area outside the PNRI Compound
2. Cleaning and removal of any other contaminants that may affect the complete adhesion of waterproofing materials on the concrete surface and waste disposal (surface preparation)
3. Application of injectable epoxy for the repair of hairline cracks and other structural defects through injection or hand grouting
4. Application of 3.0mm thk. torch applied membrane waterproofing coated with primer bitumen with granules mineral embedded in the top surface including coating the entire concrete surfaces to be waterproofed with concrete primer
5. Concrete topping of at least (+/-) 1" thick with 1" x 1" G.I.wire reinforcement on top of new 3.00mm thick torch applied membrane waterproofing
6. Removal and disposal of three (3) stainless steel tank including pipings and fittings
7. Flood testing of roof deck for forty-eight (48) hours
8. The membrane to be installed must be clean, dry, smooth and treated with bituminous primer to provide good bonding between the membrane and the substrate

9. Before installation, prime substrate with bitumen primer at the rate of five (5) square meter per liter depend on substrate condition
10. Installation of membrane shall start from the lowest point where the drainage outlet is position. Unrolled the membrane from its original packaging and placed on the correct position where it will be torched
11. Membrane overlap shall be minimum of 100mm on the sides and 150mm on each end
12. To have a bond between the membrane waterproofing and the slab concrete topping with 1” x 1” G.I. chicken wire shall be placed as the membrane dries after 48 hours of application
13. Prior to topping or placing the concrete cover, inspect the membrane for any damage and repair work as required
14. Cleaning and disposal of waste materials

A.5 TILING WORKS

1. Before tile is laid to the floor, the surface shall be tested for levelness or uniformity of slope by flooding it with water.
2. Lines of borders and center of walls at the site work shall be established in both directions to permit the pattern to be laid with minimum cutting of tiles.
3. Before grouting of joints, tiles shall have been laid in place for at least 24 hrs.
4. Removal of excess grout and adhesive using sponge.
5. Cleaning of granite tile surface as thoroughly as possible after completion of grouting.
6. Polishing of granite tile surface with soft cloth

A.6 PAINTING WORKS

A.6.1 Preparation

1. Full safety gear shall be provided to all painters. Safety harnesses shall be provided to the painters when working on elevated areas.
2. Do all preparations and cleaning procedures in accordance with the paint manufacturer’s instruction and as herein specified, for each particular substrate condition.
3. Remove hardware and hardware accessories, plates plate, surfaces, lighting fixtures, and similar items in place that are not to be painted or surface-applied protection before surface preparation and painting.

4. Adjacent surfaces shall be protected against stains or soiling. Each coat of primer or paint shall be evenly spread without skips, run, sag, and clogging and allowed to dry before the next coat is applied.
5. Provide sample illumination in areas where the painting is in progress to fully light the work being done.

A.6.2 Application

1. provide finish coats that are compatible with existing coats;
2. Where different colors meet, provide a clear line natural juncture;
3. Apply additional coats when undercoats, stains, or other conditions show through the final coat of paint until the paint film is of uniform finish color appearance. Give special attention to ensure surfaces including edges corners crevices welds and exposed fasteners receive a dry film equivalent to that of flat surfaces;
4. concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry for 1 day before applying any primer painting
5. the work throughout shall be executed in the most thorough manner to the satisfaction of the PNRI. The PNRI has the right to reject any work and materials in its judgment that are not in full conformance with the intention of the plan.

A.7 TINSMITHRY WORKS

1. Before any installation begins, the Contractor shall ascertain that the top face of the purlins is in proper alignment.
2. Correct the alignment as necessary in order to have the top faces of the purlins on an event plane.
3. Sheets shall be handled carefully to prevent damage to the paint coating. Lift all sheets or sheet packs on to the roof frame with the overlapping down-turned edge facing towards the side of roof where installation will commend during installation.
4. Start roofing installation by placing the first sheet in position with the down turned edge in line with other building elements and fastened to supports as recommended.

B. ELECTRICAL WORKS

B.1 ALL WORKS SHALL BE DONE IN ACCORDANCE WITH LATEST PHILIPPINE ELECTRICAL CODE (PEC).

B.2 WIRES AND CABLES

1. All wires and cables shall be copper, soft-drawn and annealed, shall be of ninety-eight (98 %) percent conductivity, shall be smooth and true and of a cylindrical form and shall be within one (1 %) percent of the actual size called for.

2. Wires and cables for lighting and power systems shall be plastic insulated, stranded, rated at 600 volt and THHN/THWN type and UL Listed.
3. Wires and cables for grounding shall be THW and/or BCW.
4. Smallest size of wire to be used for lighting and power system shall be 3.5 mm² THHN/THWN.
5. Color Coding of Wires:
 - Line 1 - Yellow
 - Line 2 - red
 - Line 3 - blue
 - Ground - green

B.3 CONDUITS

1. All conduits embedded/non-embedded on concrete shall be rigid steel conduit.
2. All exposed conduits shall be painted with gray color epoxy enamel and installed parallel or perpendicular with the building floors, walls, and ceilings.
3. Hangers and/or clamp spacing shall be as according to the latest edition of the PEC and shall be painted with gray color epoxy primer and enamel.
4. All rigid steel conduit pipes shall be zinc coated and shall comply with ANSI C80.1-1977 Standard).

B.4 CLAMPS AND HANGERS

1. Galvanized threaded rod shall be used for exposed conduits. The use of malleable clamps is not allowed.
2. Support for RSC pipes shall be fabricated from 1" x 1" angular bars and 10 mm. diameter threaded rod with appropriate U-bolts Supports and hangers shall be painted with epoxy primer and enamel.

B.5 PANELBOARDS

1. The panelboards and all components shall be designed, manufactured and tested in accordance with the latest applicable standards of UL, NEMA, and NEC including the following:
 - UL 67 – Standards for Panelboards
 - UL 50 – Standards for Cabinets and Boxes
 - UL 489 – Standards for Molded Case Circuit Breakers
 - UL 869 – Standard Service Equipment
 - Latest Edition of the Philippine Electrical Code

B.6 GROUNDING AND BONDING SYSTEM

1. Grounding and bonding system shall conform to the following standards:
 - Latest edition of Philippine Electrical Code (PEC), Part 1, Volume 1, Article 2.50 – Grounding and Bonding

V. DRAWINGS AND SPECIFICATIONS

1. In case of discrepancies between the figures and drawings, the matter shall be referred immediately to PNRI, before any adjustment is made by the CONTRACTOR. The decision of PNRI in the adjustment of discrepancies so as to conform to the real intent of the drawings shall govern and shall be followed by the CONTRACTOR.
2. Any discrepancies/errors/omission found by PNRI between the drawings and specifications shall be immediately reported to the CONTRACTOR, who will promptly correct such discrepancies at the Contractor's expense.
3. After completion of work as described herein, the CONTRACTOR must furnish PNRI at his own expense, one (1) original copy and five (5) blue print plans of 20" x30" "As-built Plan" signed by a professional.
4. The CONTRACTOR should submit to PNRI an Electronic Copy (AutoCAD file) of the Drawings in a USB flash drive.

VI. QUALIFICATION OF THE CONTRACTOR

Basic requirements

As minimum requirement, the contractor shall comply with Class "A" eligibility documents under Sections 23.1 (a) and 24.1 (a) which include:

- Registration certificate or Equivalent Document
- Mayor's/Business Permit or Equivalent Document
- Tax Clearance or Equivalent Document
- Philippine Contractors Accreditation Board (PCAB) License and Registration at least Category "C"
- Audited Financial Statements or Equivalent Document

Project involvement

- The contractor must have completed a single largest completed contract (SLCC) similar to this project (Design and Build), contract equivalent to at least fifty (50%) of the ABC of this project within and outside PNRI; and
- The contractor shall have no more than one (1) uncompleted construction projects similar to this project within and outside PNRI as of bid date.

VII. CONTRACT COMPLETION TIME

1. The contractor shall commence the work within Seven (7) days upon receipt of the Notice to proceed and complete the project within the period of **Two Hundred (200) Government Working Days** including preparation of design drawings and documents

VIII. REQUEST TO WORK DURING WEEKEND/HOLIDAY

1. The CONTRACTOR may request to work during weekends and holidays, however approval is subject to PNRI discretion and the availability of PNRI representative willing to oversee the work on the requested date/s.
2. The PNRI reserves the right to reject any or all request and waive any required formality therein.
3. Request for work during weekend/holidays must be submitted at least three (3) government working days prior to the target date.
4. Request for work during weekend/holidays must be submitted to the PNRI Records Section and a copy of the same bearing the received date and signature from the Records Section must be submitted to GSS.

IX. PRIOR TO MOBILIZATION AND DURING MOBILIZATION

1. Upon Receipt of Notice to Proceed the CONTRACTOR must submit the following documents:

A.) General Requirements

- a.) The CONTRACTOR must submit a list of personnel/worker names (designation/position indicated) with one (1) 1x1 picture (taken at least 1 year prior to submission), name written in the back, together with company I.D. for the issuance of PNRI I.D
- b.) The CONTRACTOR must fill up and submit four (4) copies of PNRI Equipment/Materials brought-in signed by authorized representative and present it to the guard for inspection prior to the unloading of Equipment/Materials on the project site. Equipment and Materials should be on separate forms and required information must be complete, readable and diligently written.

B.) Construction Requirements

- a.) PERT/CPM
- b.) Construction Schedule
- c.) S-Curve
- d.) Manpower Schedule
- e.) Equipment Utilization Schedule
- f.) Construction Methods
- g.) Construction Safety and Health Program (Approved by DOLE)
- h.) All Risk Insurance

2. The CONTRACTOR must provide a color-coded uniform for the workers and must be worn at all times together with the issued PNRI I.D while inside the PNRI premises.
3. The CONTRACTOR must provide the workers with all the necessary personal protective equipment relative to the workers trade work.
4. The CONTRACTOR must post the Project Billboard prior to the start of the project
5. The PNRI representative/s may visit the project site from time to time and the CONTRACTOR must at all times have a copy of Drawings/Plans, Bill of Quantities, Construction Schedule, Permits and any other documents pertaining to the project readily available on the project site.
6. The CONTRACTOR's supervisor assigned to the project site must be able to answer some if not all the queries of PNRI pertaining to the project.
7. All CONTRACTOR workers and supervisor assigned in a specified project are prohibited to roam the PNRI premises and must only stay in the assigned barracks during resting time and in the project site indicated in the PNRI issued I.D. during working time.
 - a.) In the event that the same CONTRACTOR won a bid on another project inside the PNRI compound, a different set of workers and supervisor must be assigned on that specific project.
 - b.) It is strictly prohibited for workers and supervisor to work on a project different from the indicated project in the issued PNRI I.D.
 - c.) If the CONTRACTOR wishes to transfer their assigned personnel from one project to another, the CONTRACTOR must submit an intent letter of transfer and a list of personnel names with one (1) 1x1 picture, name written in the back, together with company I.D., and surrender the previous PNRI I.D. with a different project for the issuance of PNRI I.D with the new assigned project.
 - d.) Workers who are transferred to another project shall no longer be allowed to work on their previous assignment. In the event that the workers need to be transferred again, the same transferring procedure shall apply.
8. Visitors of the CONTRACTOR workers shall not be allowed to enter the PNRI compound, and shall only be allowed to wait on the gate unless permitted by PNRI.
9. The CONTRACTOR is forbidden to sub-contract any part of the scope of work, unless stated in the contract or there is a written approval of PNRI.
10. For highly specialized scope of work that require the presence of the Suppliers, Consultants and Affiliates of the CONTRACTOR:
 - a.) The CONTRACTOR shall submit a list of personnel names for Suppliers, Consultants and Affiliates at least three (3) government working days prior to the deployment on the project site.

- b.) Suppliers, Consultants and Affiliates shall be considered as personnel of the CONTRACTOR and shall submit all the documentary requirements required for mobilization.
 - c.) The submitted I.D of these personnel should be the I.D issued by the CONTRACTOR.
 - d.) Any violation of these personnel on the signed Contract and General Conditions shall be considered violations of the CONTRACTOR.
 - e.) Any incident occurring from the actions and negligence of these personnel that may result to damages on PNRI property and injuries or loss of life to PNRI employees including PNRI Visitors, PNRI Clients and other PNRI Contractor are considered actions of the project CONTRACTOR.
11. Cat calling or any form of harassment to PNRI employees, PNRI Visitors, PNRI Clients and other Contractor contracted by PNRI are prohibited.
 12. Any form of gambling by the CONTRACTOR personnel are prohibited inside the PNRI compound.
 13. Fighting and personal quarrels between the CONTRACTOR workers that may disturb the peace and may possibly result to fistfight and other physical injuries are prohibited inside the PNRI compound.
 14. The CONTRACTOR may request for an Advance Payment. The CONTRACTOR must submit a written request together with a Surety Bond and the following supporting documents.
 - a.) Copy of PERT/CPM
 - b.) Copy of Construction Schedule
 - c.) Copy of S-Curve
 - d.) Copy of Manpower Schedule
 - e.) Copy of Equipment Utilization Schedule
 - f.) Copy of Construction Methods
 - g.) Copy of Construction Safety and Health Program (Approved by DOLE)
 - h.) Copy of All Risk Insurance

X. DEMOBILIZATION

1. The CONTRACTOR must fill up and submit four (4) copies of PNRI Equipment/Materials Taken-out signed by authorized representative with attached copy of Equipment/Materials Brought-in at least three (3) government working days prior to the scheduled hauling of equipment and present it to the guard for inspection at the gate for checking.
2. The CONTRACTOR must surrender all the PNRI I.Ds issued to the worker upon completion of the project or upon pulling out of the worker from the project. Any lost or missing I.Ds should be reported to PNRI with attached affidavit of loss.

XI. TEMPORARY FACILITY

1. The CONTRACTOR must construct a temporary facility (if stated in the bill of quantities) on the PNRI identified location that will serve as barracks for the workers and as a temporary storage facility for materials, equipment, waste materials and debris.
2. The CONTRACTOR must maintain the cleanliness of the Temporary Facility at all times to prevent any untoward incident from happening.

XII. VARIATION ORDERS - CHANGE ORDER/EXTRA WORK ORDER

1. Extra Work Order may be issued by the PNRI after the Director, in accordance with the Annex E of the Revised Implementing Rules and Regulations of RA 9184, has been approved the same.
2. **No Change Order(s) or Extra Work Order(s) shall become effective without official order from the PNRI Director, which has been officially received by the CONTRACTOR.**

XIII. SAFETY AND SECURITY

1. Cigarettes Smoking/Vaping, Illegal Drugs and Alcoholic Beverages are strictly prohibited inside the PNRI premises.
2. Bringing of weapons, explosives and sharp and bladed objects that are not going to be used and are not of any use in the project are strictly prohibited.
3. Taking any PNRI property (including scrap materials without proper clearance by PNRI) are strictly prohibited, and if found, may result to legal charges.
4. Every CONTRACTOR personnel including supervisors, suppliers, consultants and affiliates are required to log in and out on a project specified logbook provided by PNRI. The logbook issued by PNRI is for PNRI consumption and is independent to the CONTRACTOR's own policy in connection with personnel/workers attendance.
 - a.) The date shall be indicated at the top of the page.
 - b.) The logbook should bear the Name, Designation/Position, Signature and time-in and out of the personnel.
 - c.) The handwritings on the logbook must reflect the signature on the PNRI issued I.D
 - d.) The supervisor must sign on the last part of the daily attendance sheet by the end of the workday. If two or more pages are used, all used pages must be signed.
 - e.) The logbook must be submitted to PNRI at the beginning of every week, after the morning time-in, for PNRI inspection, and are then returned to the CONTRACTOR before the end of the day.
 - f.) The logbook shall be considered as the property of PNRI and must not be brought out of the compound. The logbook must be available at all times for checking of PNRI representatives.
 - g.) The logbook should also include the daily activities that are scheduled for the day.

5. The CONTRACTOR must provide a copy of Construction Safety and Health Program (approved by DOLE)
6. To avoid any untoward incidents. The CONTRACTOR must assign a Safety Officer for the project. The Safety Officer must have attended trainings/seminars as required by law to be an eligible Safety Officer and the CONTRACTOR shall submit to PNRI the proof of the same to ensure that the assigned personnel is qualified in ensuring the safety of the project site and everyone on the project site and temporary facilities.
7. The CONTRACTOR must provide their fire extinguisher. The fire extinguisher must be readily available on project area and temporary facility area.
8. Any incident that may result to damages to PNRI properties and all PNRI personnel, partners, visitors, clients and other contractor contracted by PNRI as a result of the project CONTRACTOR negligence during the course of the project would hold the CONTRACTOR legally liable. All damages incurred shall be at the expense of the CONTRACTOR.
9. The CONTRACTOR must inform the PNRI in writing with appropriate documentation of the location of any structures which are not part of the project that may be potentially damaged, equipment that may be affected and hazardous areas to be avoided that may endanger the safety and lives of the PNRI employees, partners, visitors, clients and other contractor contracted by PNRI, during implementation of the project. Failure in the part of the CONTRACTOR in informing PNRI in writing would waive the rights of the CONTRACTOR on denying PNRI its claim on damages that may arise. The CONTRACTOR however is not exempted in its liabilities and responsibilities due to negligence if an incident arises that may have been prevented if the CONTRACTOR is diligent in ensuring the timely delivery of work and practiced every safety precaution required by law.

XIV. VIOLATIONS ON THE GENERAL CONDITIONS

1. It is assumed that by bidding and winning the bid the CONTRACTOR has read and reviewed all the documents pertaining to the project.
2. Any violations on the part of CONTRACTOR including its suppliers and affiliates whether intentional or not on the General Conditions set by PNRI that resulted on incidents or accidents on one party or both parties incurring injuries, disabilities or death, damages to PNRI properties, and/or any delay of the project shall be the sole responsibility of the CONTRACTOR and at the expense of the CONTRACTOR and should not hold the PNRI or its duly authorized representative liable and/or responsible.
3. The PNRI reserves the rights to terminate any or all part of the contract without holding PNRI or its duly authorized representative liable and/or responsible to any or all damages to the CONTRACTOR if the PNRI deemed the CONTRACTOR is negligent on its part.

XV. WARRANTY

The warranty shall be based on prescribed warranty provisions of the 2016 Revised IRR of RA 9184.

1. From the time project construction commenced up to final acceptance, the contractor shall assume full responsibility for the following:
 - a) any damage or destruction of the works except those occasioned by force majeure ;
and
 - b) safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the works, equipment, installation and the like to be affected by his construction work.
2. One (1) year from project completion up to final acceptance or the defects liability period.

The contractor shall undertake the repair works, at his own expense, of any damage to the infrastructure on account of the use of materials of inferior quality, within ninety (90) days from the time the HoPE has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand.

3. The warranty against Structural Defects and Failures shall cover the following periods from final acceptance, except those occasioned by force majeure:
 - a) Permanent Structures: Fifteen (15) years
Buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g. , DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures;
 - b) Semi-Permanent Structures: Five (5) years
Buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures; and
 - c) Other Structures: Two (2) years
Bailey and wooden bridges, shallow wells, spring developments, and other similar structures.

XVI. CLEANING OF PREMISES

1. Waste materials and debris of any form shall not be dumped on any part of the compound unless otherwise permitted by PNRI.
2. The CONTRACTOR, subject to approval of PNRI, may secure any temporary dumping area and shall ensure that no incident or fire would arise on the temporary dumping area.
3. Hauling of the debris and waste materials shall be done on a regular basis to avoid overflowing of debris or any untoward incident.
4. The CONTRACTOR shall avoid littering on the PNRI premises and shall secure their garbage and segregate it to biodegradable and non-biodegradable.
5. Segregated garbage of the CONTRACTOR shall be hauled by the CONTRACTOR.
6. The CONTRACTOR shall clean the project area daily before the end of working hours before leaving.
7. The CONTRACTOR shall clean and clear the whole premises of all debris and unused materials upon completion of the project.
8. Prior to hauling of waste materials and debris the CONTRACTOR must fill up and submit four (4) copies of PNRI Equipment/Materials Taken-out signed by authorized representative with attached colored pictures at least three (3) government working days prior to the scheduled hauling and present it to the guard for inspection at the gate for checking.
9. Any unused and excess materials part of the bill of quantities including scrap materials must be surrendered to PNRI.

XVII. FORCE MAJEURE AND PUBLIC HEALTH CONCERNS

1. In the event of force majeure and public health concerns the CONTRACTOR should follow the office order/memorandum/guidelines issued by PNRI.
2. In the event that such PNRI instructions are not yet issued, the CONTRACTOR must follow the promulgating rules, regulations, and guidelines issued by the Philippine government and should closely coordinate with the PNRI for its implementation.

XVIII. ADDITIONAL NOTES

1. Any clarifications on any part of the General Conditions must be addressed in writing. The response from PNRI and its subsequent responses, if any, shall be a part of the General Conditions until the completion of the project or if until otherwise revoked.

During COVID-19 pandemic, the CONTRACTOR must follow the minimum public health standard issued by the IATF and DOH. Other guidelines such as DPWH Department Order no. 39 series of 2020 are also in effect. Any updates and guidelines issued by the other government agencies should be closely monitored and the CONTRACTOR should continuously coordinate with PNRI for the updates of the released guidelines and the implementation of these guidelines on the project site.

Section VII. Drawings
(on a separate folder)

Section VIII. Bill of Quantities

| ITEM | DESCRIPTION | COST |
|-------------|---|-------------|
| A. | GENERAL REQUIREMENTS | |
| | 1. Mobilization and demobilization (Manpower, tools materials, equipment, and etc.) | |
| | 2. Bonds and Insurance | |
| | 3. Temporary facilities and fencing | |
| | 4. As-built plan | |
| | 5. Project billboard | |
| B. | PREPARATION OF DESIGN DRAWINGS AND DOCUMENTS | |
| | 1. SCHEMATIC DESIGN PHASE | |
| | 2. DESIGN DEVELOPMENT PHASE | |
| | 3. CONTRACT DOCUMENT PHASE | |
| C. | CONSTRUCTION (CIVIL, ELECTRICAL, MECHANICAL AND COMMUNICATION) | |
| | 1. PROVISION OF NEW BUILDING EXTENSION ON TOP OF EXISTING 2ND FLOOR CONCRETE SLAB AT LEFT SIDE OF ARC BUILDING (RADIATION GRAFTING WET LABORATORY) | |
| | BUILDING FLOOR AREA = (+/-) 200.00 SQ.M. | |
| | 1.1 Site Works | |
| | 1.2 Concrete Works | |
| | 1.3 Rebar Works | |
| | 1.4 Formworks and Scaffoldings | |
| | 1.5 Masonry Works | |
| | 1.6 Carpentry Works | |
| | 1.7 Metal Works (Ceiling Support) | |
| | 1.8 Metal Works (Ceiling Support) | |
| | 1.9 Painting Works | |
| | 1.10 Plumbing Works | |
| | 1.11 Electrical Works | |
| | 1.12 Demolition of existing concrete topping including existing waterproofing materials and disposal (Roof Deck open space) (+/-) 250.00 SQ.M. | |
| | 2. PROVISION OF NEW STORAGE ROOM BUILDING | |
| | BUILDING FLOOR AREA = (+/-) 25.00 SQ.M. | |
| | REINFORCED CONCRETE SIDEWALK = (+/-) 30.00 SQ.M. | |
| | 2.1 Site Works | |
| | 2.2 Concrete Works | |
| | 2.3 Rebar Works | |
| | 2.4 Formworks and Scaffoldings | |

- 2.5 Masonry Works
- 2.6 Carpentry Works
- 2.7 Metal Works (Ceiling Support and Roof Frame/Truss)
- 2.8 Tile Works
- 2.9 Doors and Windows
- 2.10 Painting Works
- 2.11 Plumbing Works
- 2.12 Tinsmithry Works
- 2.13 Electrical Works

**C.1 MECHANICAL WORKS
(Supply and Installation of Air Condition Units)**

1. Chemistry Research Section (CRS)

- 1.1 ARC Basement
- 1.2 ARC Ground Floor, Central Laboratory
- 1.3 ARC Second Floor
- 1.4 RBA Laboratory 2
- 1.5 Radiation Processing Laboratory

2. PNRI R3U Laboratories

- 2.1 ChemBio Lab
- 2.2 Radiation Grafting Wet Laboratory

3. Health Physics Research Section (HPRS)

- 3.1 ARC First Floor, HPRS Lab
- 3.2 ARC Second Floor, HPRS Lab

D. BMRS Microbiological and Molbio Laboratories

TOTAL DIRECT COST:

INDIRECT COST

:

CONTINGENCY

OH/SUPERVISION

PROFIT

TOTAL MARK-UP:

VAT (5%):

TOTAL INDIRECT COST:

TOTAL DIRECT & INDIRECT COST:

TOTAL PROJECT COST:

PROJECT : UPGRADE OF ARC BUILDING (C.Y. 2023) (DESIGN AND BUILD)
LOCATION : PNRI Compound, Commonwealth Avenue, Diliman, Quezon City
OWNER : Philippine Nuclear Research Institute (PNRI)
SUBJECT : DETAILED COST ESTIMATE /BILL OF QUANTITIES

| ITEM NO. | ITEM/DESCRIPTION | QTY | UNIT | MATERIAL COST | | LABOR COST | | ESTIMATED DIRECT COST | MARK-UPS IN PERCENT | | | TOTAL INDI. COST | TOTAL COST | UNIT COST |
|---|--|-----|------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|------------------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | | | |
| A GENERAL REQUIREMENTS | | | | | | | | | | | | | | |
| 1 | Mobilization and demobilization (Manpower, tools materials, equipments, and etc) | 1 | lot | | | | | | | | | | | |
| 2 | Bonds and Insurance | 1 | lot | | | | | | | | | | | |
| 3 | Temporary facilities and fencing | 1 | lot | | | | | | | | | | | |
| 4 | As-built plan | 1 | lot | | | | | | | | | | | |
| 5 | Project billboard | 1 | lot | | | | | | | | | | | |
| SUB-TOTAL | | | | | | | | | | | | | | |
| B PREPARATION OF DESIGN DRAWINGS AND DOCUMENTS | | | | | | | | | | | | | | |
| 1 | SCHEMATIC DESIGN PHASE | 1 | lot | | | | | | | | | | | |
| 1.1 | The design and build contractor will confer with the owner to a certain and confirm the requirements of the plans | | | | | | | | | | | | | |
| 1.2 | Prepare schematic design studies based on project requirements leading to a recommended solution including a general description of the project for approval by PNRI | | | | | | | | | | | | | |
| 2 | DESIGN DEVELOPMENT PHASE | 1 | lot | | | | | | | | | | | |
| 2.1 | Prepare from the approved schematic design study, the design developments consisting of plans, elevations and other drawings to illustrate the size and character of the project | | | | | | | | | | | | | |
| 2.2 | Prepare an outline of specifications showing the kind of materials intended to be used and the structural concept. The types of utility system and equipment to be installed and the other items of work that may be required based on the requirements of the project | | | | | | | | | | | | | |
| 2.3 | Provide the owner (PNRI) (2) two sets of design development for review and approval by the owner. One shall be properly signed and approved by the owner and returned to the contractor of the design and build | | | | | | | | | | | | | |
| 3 | CONTRACT DOCUMENT PHASE | 1 | lot | | | | | | | | | | | |
| 3.1 | The design and build contractor prepares from the approved design and development documents, the complete construction drawings, specifications setting forth in the detail of the work required for the architectural engineering design and other service connected equipment, utilities, and related works based on the requirements of the project | | | | | | | | | | | | | |
| 3.2 | Submit breakdown of the detailed cost estimate of the project based on quantities areas, volumes, and weight as parameters based on the requirements of the project | | | | | | | | | | | | | |

| ITEM NO. | ITEM/DESCRIPTION | QTY | UNIT | MATERIAL COST | | LABOR COST | | ESTIMATED DIRECT COST | MARK-UPS IN PERCENT | | | TOTAL COST | TOTAL COST | UNIT COST | |
|----------|---|-----|------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|------------|------------|-----------|-----------------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | | | | TOTAL MARK-UP % |
| 3.3 | Submit to the PNRI the following output of the Detailed Architectural and Engineering Design (DAED) based on the requirement of the project (signed and sealed) by Professional Engineers a. 1 set - Original plans b. 5 sets - Blueprints c. Electronic copy of plans (CAD files) All copies of the plans necessary shall be printed in standard size 20" x 30" signed and sealed by licensed Professional Engineers including bill of materials, quantities, estimates, and other necessary documents required by the project | | | | | | | | | | | | | | |
| C | CONSTRUCTION (CIVIL, ELECTRICAL, MECHANICAL AND COMMUNICATION) | | | | | | | | | | | | | | |
| 1 | PROVISION OF NEW BUILDING EXTENSION ON TOP OF EXISTING 2ND FLOOR CONCRETE SLAB AT LEFT SIDE OF ARC BUILDING (RADIATION GRAFTING WET LABORATORY) | | | | | | | | | | | | | | |
| 1.1 | BUILDING FLOOR AREA = (47) 200.00 SQ.M. Site Works | 1 | lot | | | | | | | | | | | | |
| 1.1.1 | Removal of existing waterproofing | | | | | | | | | | | | | | |
| 1.1.2 | Chipping/ demolition of existing concrete topping | | | | | | | | | | | | | | |
| 1.1.3 | Cleaning and disposal of waste materials | | | | | | | | | | | | | | |
| 1.1.4 | Chipping for construction joint | | | | | | | | | | | | | | |
| 1.2 | Concrete Works | 1 | lot | | | | | | | | | | | | |
| 1.2.1 | Portland cement | | | | | | | | | | | | | | |
| 1.2.2 | White sand | | | | | | | | | | | | | | |
| 1.2.3 | 3/4" crushed gravel | | | | | | | | | | | | | | |
| 1.3 | Rebar Works | 1 | lot | | | | | | | | | | | | |
| 1.3.1 | 16mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | |
| 1.3.2 | 12mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | |
| 1.3.3 | 10mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | |
| 1.3.4 | Gauge 16 G.I. wire | | | | | | | | | | | | | | |
| 1.3.5 | Epoxy A and B | | | | | | | | | | | | | | |
| 1.4 | Formworks and Scaffoldings | 1 | lot | | | | | | | | | | | | |
| 1.4.1 | 1/2" x 4" x 8' phenolic wood | | | | | | | | | | | | | | |
| 1.4.2 | Assorted cocolumbar | | | | | | | | | | | | | | |
| 1.4.3 | Assorted common wire nail | | | | | | | | | | | | | | |
| 1.4.4 | Gauge 16 G.I. wire | | | | | | | | | | | | | | |
| 1.4.5 | Steel scaffolding (rental) | | | | | | | | | | | | | | |
| 1.5 | Masonry Works | 1 | lot | | | | | | | | | | | | |
| 1.5.1 | 6" x 8" x 16" (350psi CHB) jackbuilt or equal with plastering | | | | | | | | | | | | | | |
| 1.5.2 | 10mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | |
| 1.5.3 | Portland cement | | | | | | | | | | | | | | |
| 1.5.4 | White sand | | | | | | | | | | | | | | |
| 1.5.5 | Gauge 16 G.I. wire | | | | | | | | | | | | | | |
| 1.5.6 | Miscellaneous | | | | | | | | | | | | | | |
| 1.6 | Carpentry Works | 1 | lot | | | | | | | | | | | | |
| 1.6.1 | 12mm thk x 1.22m x 2.44m gypsum board | | | | | | | | | | | | | | |
| 1.6.2 | 1" x 1" metal wall angle | | | | | | | | | | | | | | |

| ITEM NO. | ITEM/DESCRIPTION | QTY | UNIT | MATERIAL COST | | LABOR COST | | ESTIMATED DIRECT COST | MARK-UPS IN PERCENT | | | TOTAL MARK-UP | | TOTAL INDI. COST | TOTAL COST | UNIT COST |
|----------|--|--------|-------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|---------------|-------|------------------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | % | VALUE | | | |
| 1.6.3 | 1" x 2" metal furring | | | | | | | | | | | | | | | |
| 1.6.4 | 1" x 2" metal main furring | | | | | | | | | | | | | | | |
| 1.6.5 | Metal w-clip | | | | | | | | | | | | | | | |
| 1.6.6 | Metal hangers | | | | | | | | | | | | | | | |
| 1.6.7 | Aluminum blind rivets | | | | | | | | | | | | | | | |
| 1.6.8 | black screw | | | | | | | | | | | | | | | |
| 1.6.9 | box with screw | | | | | | | | | | | | | | | |
| 1.6.10 | Miscellaneous | | | | | | | | | | | | | | | |
| 1.6.11 | Ficem board 5.5mm thk x1.22m x2.44m | | | | | | | | | | | | | | | |
| 1.6.12 | 2" x 4" metal stud | | | | | | | | | | | | | | | |
| 1.7 | Metal Works (Ceiling Support) | 1 | lot | | | | | | | | | | | | | |
| 1.7.1 | 2" x 3" x 20' x 1.6mm thk tubular pipe | | | | | | | | | | | | | | | |
| 1.7.2 | Steel plate | | | | | | | | | | | | | | | |
| 1.7.3 | Dyna expansion bolt | | | | | | | | | | | | | | | |
| 1.7.4 | Welding rod | | | | | | | | | | | | | | | |
| 1.7.5 | Cutting disc | | | | | | | | | | | | | | | |
| 1.7.6 | Grinding disc | | | | | | | | | | | | | | | |
| 1.7.7 | Rust converter | | | | | | | | | | | | | | | |
| 1.7.8 | Epoxy primer | | | | | | | | | | | | | | | |
| 1.7.9 | Epoxy thinner | | | | | | | | | | | | | | | |
| 1.7.10 | Drill bit | | | | | | | | | | | | | | | |
| 1.7.11 | Paint brush and rollers | | | | | | | | | | | | | | | |
| 1.7.12 | Miscellaneous | | | | | | | | | | | | | | | |
| 1.8 | Aluminum / Glass Works | 1 | lot | | | | | | | | | | | | | |
| 1.8.1 | Anaok aluminum swing door frame with jamb with 1/4" bronze glass with complete accessories, lock, door closer, handle, etc. | | | | | | | | | | | | | | | |
| 1.8.2 | Anaok aluminum sliding door frame with 1/4" thk bronze glass with complete accessories, lock, handle, rollers, etc. | | | | | | | | | | | | | | | |
| 1.8.3 | Anaok aluminum sliding window with 1/4" thk bronze glass with complete accessories, lock, handle, roller, etc. | | | | | | | | | | | | | | | |
| 1.8.4 | Anaok aluminum fixed window with 1/4" thk bronze glass | | | | | | | | | | | | | | | |
| 1.9 | Painting Works | 1 | lot | | | | | | | | | | | | | |
| 1.9.1 | Concrete works (both face) with skimcoat surface preparation, one (1) coat flat latex paint, two (2) coats glass latex paint | | | | | | | | | | | | | | | |
| 1.9.2 | Ceiling with joint surface preparation one (1) coat flat latex paint, two (2) coats semi-gloss latex paint | | | | | | | | | | | | | | | |
| 1.9.3 | Flooring - self-leveling epoxy paint of at least 2.0mm thk (including surface preparation) | 200.00 | sq.m. | | | | | | | | | | | | | |
| 1.9.4 | Wood surface - one (1) coat flat wall enamel and two (2) coats of quick dry enamel | | | | | | | | | | | | | | | |
| 1.9.5 | Metal surface - one (1) coat epoxy primer and two (2) coats epoxy top coat | | | | | | | | | | | | | | | |
| 1.9.6 | Skim coat surface preparation | | | | | | | | | | | | | | | |
| 1.10 | Plumbing Works | 1 | lot | | | | | | | | | | | | | |
| 1.10.1 | Sewerline - PVC pipes and fittings (S-1000) | | | | | | | | | | | | | | | |
| 1.10.2 | Waterline - PPR pipes and fittings, valves | | | | | | | | | | | | | | | |
| 1.10.3 | Emergency Shower - Stainless Steel type 304 with complete accessories, (same as existing) | | | | | | | | | | | | | | | |
| 1.11 | Electrical Works | 1 | lot | | | | | | | | | | | | | |
| 1.11.1 | Exhaust fan (10" dia) wall type with gravity shutter (4 sets) | | | | | | | | | | | | | | | |
| 1.11.2 | RSC pipes and fittings | | | | | | | | | | | | | | | |
| 1.11.3 | Panelboard with breakers | | | | | | | | | | | | | | | |

| ITEM NO. | ITEM/DESCRIPTION | QTY | UNIT | MATERIAL COST | | LABOR COST | | ESTIMATED DIRECT COST | MARK-UPS IN PERCENT | | | TOTAL MARK-UP VALUE | VAT | TOTAL INDI COST | TOTAL COST | UNIT COST |
|----------|--|-----|-------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|---------------------|-----|-----------------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | | | | | |
| 1.11.4 | Federlines/cables | | | | | | | | | | | | | | | |
| 1.11.5 | Enclosed Circuit Breaker (ECBs) | | | | | | | | | | | | | | | |
| 1.11.6 | Utility and junction box | | | | | | | | | | | | | | | |
| 1.11.7 | Pullboxes and wire gutters | | | | | | | | | | | | | | | |
| 1.11.8 | Fluorescent lamp with lower recessed tye | | | | | | | | | | | | | | | |
| 1.11.9 | Pinlights/downlights | | | | | | | | | | | | | | | |
| 1.11.10 | 3.5mm2 THHN wire help dodge | | | | | | | | | | | | | | | |
| 1.11.11 | 2.0mm2 THHN wire helps dodge | | | | | | | | | | | | | | | |
| 1.11.12 | 5.5mm2 THHN wire help dodge | | | | | | | | | | | | | | | |
| 1.11.13 | 38mm2 THHN wire help dodge | | | | | | | | | | | | | | | |
| 1.11.14 | 80mm2 THHN wire help dodge | | | | | | | | | | | | | | | |
| 1.11.15 | Convenience outlets | | | | | | | | | | | | | | | |
| 1.11.16 | Lighting Switches | | | | | | | | | | | | | | | |
| 1.11.17 | Miscellaneous (pipe supports and hangers) | | | | | | | | | | | | | | | |
| 1.11.18 | Miscellaneous and consumables | | | | | | | | | | | | | | | |
| 1.12 | Demolition of existing concrete topping including existing waterproofing materials and disposal (Roof Deck open space) (+/-) 250.00 SQ.M. | | | | | | | | | | | | | | | |
| 1.12.1 | Chipping and breaking of concrete topping including removal of waterproofing materials (+/-) 4" thick | 250 | sq.m. | | | | | | | | | | | | | |
| 1.12.2 | Cleaning and disposal of concrete debris and waterproofing materials | 1 | lot | | | | | | | | | | | | | |
| 2 | PROVISION OF NEW STORAGE ROOM BUILDING BUILDING FLOOR AREA = (+/-) 25.00 SQ.M. REINFORCED CONCRETE SIDEWALK = (+/-) 30.00 SQ.M. | | | | | | | | | | | | | | | |
| 2.1 | Site Works | 1 | lot | | | | | | | | | | | | | |
| 2.1.1 | Cleaning and grabbing | | | | | | | | | | | | | | | |
| 2.1.2 | Chipping and concrete emolition | | | | | | | | | | | | | | | |
| 2.1.3 | Excavation of foundation | | | | | | | | | | | | | | | |
| 2.1.4 | Gravel bedding | | | | | | | | | | | | | | | |
| 2.1.5 | Soil poisoning | | | | | | | | | | | | | | | |
| 2.1.6 | Disposal of waste materials | | | | | | | | | | | | | | | |
| 2.1.7 | Filling Materials and Compaction | | | | | | | | | | | | | | | |
| 2.2 | Concrete Works | 1 | lot | | | | | | | | | | | | | |
| 2.2.1 | portland cement | | | | | | | | | | | | | | | |
| 2.2.2 | white sand | | | | | | | | | | | | | | | |
| 2.2.3 | 3/4" crushed gravel | | | | | | | | | | | | | | | |
| 2.3 | Rebar Works | 1 | lot | | | | | | | | | | | | | |
| 2.3.1 | 16mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | | |
| 2.3.2 | 12mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | | |
| 2.3.3 | 10mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | | |
| 2.3.4 | Gauge 16 G.I. wire | | | | | | | | | | | | | | | |
| 2.4 | Formworks and Scaffoldings | 1 | lot | | | | | | | | | | | | | |
| 2.4.1 | 1/2" x 4' x 8' phenolic wood | | | | | | | | | | | | | | | |
| 2.4.2 | Assorted cocolumber | | | | | | | | | | | | | | | |
| 2.4.3 | Assorted common wire nail | | | | | | | | | | | | | | | |
| 2.4.4 | Gauge 16 G.I. wire | | | | | | | | | | | | | | | |
| 2.4.5 | Steel scaffolding (rental) | | | | | | | | | | | | | | | |
| 2.5 | Masonry Works | 1 | lot | | | | | | | | | | | | | |
| 2.5.1 | 6" x 8" x 16" ordinary CHB with plastering | | | | | | | | | | | | | | | |
| 2.5.2 | 10mm dia. x 6.00m deformed bar | | | | | | | | | | | | | | | |
| 2.5.3 | Portland Cement | | | | | | | | | | | | | | | |
| 2.5.4 | White Sand | | | | | | | | | | | | | | | |
| 2.5.5 | Gauge 16 G.I. wire | | | | | | | | | | | | | | | |
| 2.5.6 | Miscellaneous | | | | | | | | | | | | | | | |

| ITEM NO. | ITEM DESCRIPTION | QTY | UNIT | MATERIAL COST | | LABOR COST | | ESTIMATED DIRECT COST | MARK-UPS IN PERCENT | | | TOTAL MARK-UP | | TOTAL COST | UNIT COST |
|----------|--|-----|------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|---------------|-------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | % | VALUE | | |
| 2.6 | <i>Carpentry Works</i> | 1 | lot | | | | | | | | | | | | |
| 2.6.1 | 5.5mm thk ficem board ceiling | | | | | | | | | | | | | | |
| 2.6.2 | 1" x 1" metal wall angle | | | | | | | | | | | | | | |
| 2.6.3 | 1" x 2" metal furring | | | | | | | | | | | | | | |
| 2.6.4 | 1" x 2" metal main furring | | | | | | | | | | | | | | |
| 2.6.5 | Metal w-clip | | | | | | | | | | | | | | |
| 2.6.6 | Metal hangers | | | | | | | | | | | | | | |
| 2.6.7 | Aluminum blind rivets | | | | | | | | | | | | | | |
| 2.6.8 | Black screw | | | | | | | | | | | | | | |
| 2.6.9 | Tox with screw | | | | | | | | | | | | | | |
| 2.6.10 | Miscellaneous | | | | | | | | | | | | | | |
| 2.7 | <i>Metal Works (Ceiling Support and Roof Frame/Truss)</i> | 1 | lot | | | | | | | | | | | | |
| 2.7.1 | 2" x 3" x 20' x 1.6mm thk tubular pipe | | | | | | | | | | | | | | |
| 2.7.2 | Steel plate | | | | | | | | | | | | | | |
| 2.7.3 | Dyna expansion bolt | | | | | | | | | | | | | | |
| 2.7.4 | Welding rod | | | | | | | | | | | | | | |
| 2.7.5 | Cutting disc | | | | | | | | | | | | | | |
| 2.7.6 | Grinding disc | | | | | | | | | | | | | | |
| 2.7.7 | Rust converter | | | | | | | | | | | | | | |
| 2.7.8 | Epoxy primer | | | | | | | | | | | | | | |
| 2.7.9 | Epoxy thinner | | | | | | | | | | | | | | |
| 2.7.10 | Drill bit | | | | | | | | | | | | | | |
| 2.7.11 | Paint brush and rollers | | | | | | | | | | | | | | |
| 2.7.12 | 2" x 2" x 1/4" x 20' angular bar | | | | | | | | | | | | | | |
| 2.7.13 | 1 1/2" x 1 1/2" x 1/4" x 20' angular bar | | | | | | | | | | | | | | |
| 2.7.14 | 2" x 4" x 20' x 1.60mm thk metal C-purlins | | | | | | | | | | | | | | |
| 2.7.15 | 12mm dia. x 6.00m plain round bar | | | | | | | | | | | | | | |
| 2.7.16 | 16mm dia. x 6.00m plain round bar | | | | | | | | | | | | | | |
| 2.7.17 | 16mm dia. turn buckle | | | | | | | | | | | | | | |
| 2.7.18 | 1" x 1" x 1/4" x 20' angular bar | | | | | | | | | | | | | | |
| 2.7.19 | 0.30m x 12mm thk x 2.44m ficem board | | | | | | | | | | | | | | |
| 2.7.20 | Miscellaneous | | | | | | | | | | | | | | |
| 2.8 | <i>Tile Works</i> | 1 | lot | | | | | | | | | | | | |
| 2.8.1 | Ceramic floor tile (0.60m x 0.60m) | | | | | | | | | | | | | | |
| 2.8.2 | ABC tile adhesive | | | | | | | | | | | | | | |
| 2.8.3 | ABC tile grout | | | | | | | | | | | | | | |
| 2.8.4 | Portland cement | | | | | | | | | | | | | | |
| 2.8.5 | Ready fixed adhesive | | | | | | | | | | | | | | |
| 2.8.6 | Miscellaneous | | | | | | | | | | | | | | |
| 2.9 | <i>Doors and Windows</i> | 1 | lot | | | | | | | | | | | | |
| 2.9.1 | Double metal steel door with lower with lockset hinges, queue 16 epoxy painted (1 set) | | | | | | | | | | | | | | |
| 2.9.2 | Anatok aluminum awning windows with 1/4" thk bronze glass with complete accessories | | | | | | | | | | | | | | |
| 2.9.3 | Anatok aluminum sliding windows with 1/4" thk bronze glass with complete accessories | | | | | | | | | | | | | | |
| 2.10 | <i>Painting Works</i> | 1 | lot | | | | | | | | | | | | |
| 2.10.1 | Concrete walls (interior and exterior) three (3) coats of latex paint | | | | | | | | | | | | | | |
| 2.10.2 | Ceiling (interior and exterior) latex paint three (3) coats of latex paint | | | | | | | | | | | | | | |
| 2.10.3 | Skimcoat surface preparation | | | | | | | | | | | | | | |
| 2.10.4 | Miscellaneous | | | | | | | | | | | | | | |
| 2.11 | <i>Plumbing Works</i> | 1 | lot | | | | | | | | | | | | |
| 2.11.1 | PVC pipes and fittings | | | | | | | | | | | | | | |
| 2.11.2 | Floor drain | | | | | | | | | | | | | | |

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|----------|---|-----|-------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|---------------------|-----|------------------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | | | | | |
| 2.11.3 | Valves | | | | | | | | | | | | | | | |
| 2.11.4 | PPR pipes and fittings | | | | | | | | | | | | | | | |
| 2.11.5 | Catch basin | | | | | | | | | | | | | | | |
| 2.11.6 | Miscellaneous | | | | | | | | | | | | | | | |
| 2.12 | Transmitting Works | 1 | lot | | | | | | | | | | | | | |
| 2.12.1 | Pre-painted long span roofing "rib-type" (0.50mm thk) | | | | | | | | | | | | | | | |
| 2.12.2 | pre-painted side flashing, wall flashing, ridge roll, and plain sheet (0.50mm thk) | | | | | | | | | | | | | | | |
| 2.12.3 | Metal texscrew | | | | | | | | | | | | | | | |
| 2.12.4 | Aluminum blind rivets | | | | | | | | | | | | | | | |
| 2.12.5 | Silicon sealant | | | | | | | | | | | | | | | |
| 2.12.6 | 10mm polyethylene foam insulation with aluminum foil on both side with chicken wire support | | | | | | | | | | | | | | | |
| 2.12.7 | Miscellaneous | | | | | | | | | | | | | | | |
| 2.13 | Electrical Works | 1 | lot | | | | | | | | | | | | | |
| 2.13.1 | RSC pipes and fittings | | | | | | | | | | | | | | | |
| 2.13.2 | Utility and junction box | | | | | | | | | | | | | | | |
| 2.13.3 | Fluorescent fixture with lower, recessed type | | | | | | | | | | | | | | | |
| 2.13.4 | Panelboard with breakers | | | | | | | | | | | | | | | |
| 2.13.5 | 3.5mm2 THHN wire Phelps dodge | | | | | | | | | | | | | | | |
| 2.13.6 | 2.0mm2 THHN wire Phelps dodge | | | | | | | | | | | | | | | |
| 2.13.7 | 5.5mm2 THHN wire Phelps dodge | | | | | | | | | | | | | | | |
| 2.13.8 | 14mm2 THHN wire Phelps dodge | | | | | | | | | | | | | | | |
| 2.13.9 | 30mm2 THHN wire Phelps dodge | | | | | | | | | | | | | | | |
| 2.13.10 | Convenient outlets | | | | | | | | | | | | | | | |
| 2.13.11 | Switches | | | | | | | | | | | | | | | |
| 2.13.12 | Miscellaneous | | | | | | | | | | | | | | | |
| 2.13.13 | 8" dia. p/nlight with 15W LED bulb | | | | | | | | | | | | | | | |
| 3 | Waterproofing Works (See attached drawings) | | | | | | | | | | | | | | | |
| 3.1 | Removal of all existing waterproofing materials including hauling and disposal from ARC Building to disposal area outside the PNRI Compound | 871 | sq.m. | | | | | | | | | | | | | |
| 3.2 | Cleaning and removal of any other contaminants that may affect the complete adhesion of waterproofing materials on the concrete surface and waste disposal (surface preparation) | 871 | sq.m. | | | | | | | | | | | | | |
| 3.3 | Application of injectable epoxy for the repair of hairline cracks and other structural defects through injection or hand grouting. | 1 | lot | | | | | | | | | | | | | |
| 3.4 | Application of 3.0mm thk. torch applied membrane waterproofing coated with primer bitumen with granules mineral embedded in the top surface including coating the entire concrete surfaces to be waterproofed with concrete primer. | 958 | sq.m. | | | | | | | | | | | | | |
| 3.5 | Concrete topping of atleast (+/-) 1" thick with 1" x 1" G.I.wire reinforcement on top of new 3.00mm thick torch applied membrane waterproofing | 871 | sq.m. | | | | | | | | | | | | | |
| 3.5.1 | Concrete topping (+/-) 1" thick | 915 | sq.m. | | | | | | | | | | | | | |
| 3.5.2 | 1" x 1" G.I. chicken wire | 1 | lot | | | | | | | | | | | | | |
| 3.6 | Removal and disposal of three (3) stainless steel tank including pipings and fittings | 1 | lot | | | | | | | | | | | | | |
| 3.7 | Flood testing of roof deck for forty-eight (48) hours | 1 | lot | | | | | | | | | | | | | |
| 3.8 | Cleaning and disposal of waste materials | 1 | lot | | | | | | | | | | | | | |
| | SUB-TOTAL | | | | | | | | | | | | | | | |
| C.1 | MECHANICAL WORKS | | | | | | | | | | | | | | | |
| 1 | (Supply and Installation of Air Condition Units) | | | | | | | | | | | | | | | |
| 1.1 | ARC Basement | | | | | | | | | | | | | | | |

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|------------|---|-----|------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|---------------------|-----|------------------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | | | | | |
| 1.1.1 | Supply and installation of 3.0 hp air conditioner, split type, ceiling-mounted, inverter, at Soil/Sediment Processing Laboratory | 1 | set | | | | | | | | | | | | | |
| 1.1.2 | Removal of existing 3.0 TR (~4.0 hp) air conditioner, split type, ceiling-mounted at Soil/Sediment Processing Laboratory | 1 | lot | | | | | | | | | | | | | |
| 1.2 | ARC Ground Floor, Central Laboratory | | | | | | | | | | | | | | | |
| 1.2.1 | Supply and installation of 1.5 hp air conditioner, split type, wall-mounted, inverter, at Sample Prep. Room | 1 | unit | | | | | | | | | | | | | |
| 1.2.2 | Removal of existing 2.0 hp air conditioner, split type, wall-mounted, inverter, at Sample Prep. Room | 1 | lot | | | | | | | | | | | | | |
| 1.2.3 | Supply and installation of 1.5 hp air conditioner, split type, wall-mounted, inverter at Grafting Laboratory | 1 | set | | | | | | | | | | | | | |
| 1.2.4 | Provision of ceiling hangers, wall slot opening for copper tubing and drain pipe (breaking of concrete, plastering, painting, and restoration works) for one (1) set 1.5 hp air conditioner | 1 | lot | | | | | | | | | | | | | |
| 1.2.5 | Supply and installation of 2.0 hp air conditioner, split type, wall-mounted, inverter, at room with UTM | 1 | set | | | | | | | | | | | | | |
| 1.2.6 | Provision of wall slot opening for copper tubing and drain pipe (breaking of concrete, plastering, painting, and restoration works) for one (1) set 2.0 hp air conditioner | 1 | lot | | | | | | | | | | | | | |
| 1.3 | ARC Second Floor | | | | | | | | | | | | | | | |
| 1.3.1 | Supply and installation of 1.5 hp air conditioner, split type, wall-mounted, inverter, at FTIR Room | 1 | set | | | | | | | | | | | | | |
| 1.3.2 | Provision of ceiling hangers, wall slot opening for copper tubing and drain pipe (breaking of concrete, plastering, painting, and restoration works) for one (1) set 1.5 hp air conditioner | 1 | lot | | | | | | | | | | | | | |
| 1.3.3 | Removal of existing 1.0 hp air conditioner, window type and concreting of vacated wall opening at FTIR Room | 1 | lot | | | | | | | | | | | | | |
| 1.3.4 | Supply and installation of Stainless Steel Island Type Fume Hood Canopy with PVC Pipe ducting, complete elbows, fittings, PVC exhaust stack, exhaust blower, hangers and supports and weather cap at FTIR Room. Size: Width: 36" x Depth: 24" x Height: 25" Body: 304 Stainless Steel, Gauge 16, heavy duty Duct Port: 6" Ø Stainless Steel Pipe Exhaust Ducting: 6" Ø PVC Exhaust Blower: Backward curved impeller-480 CFM, 6" Ø inlet, vertical discharge, epoxy coated blades and steel body, 230 VAC / 60 Hz | 1 | lot | | | | | | | | | | | | | |
| 1.4 | RBA Laboratory 2 | | | | | | | | | | | | | | | |
| 1.4.1 | Supply and installation of 2.0 hp air conditioner, split type, wall-mounted, inverter at RBA Cold Lab. | 1 | set | | | | | | | | | | | | | |
| 1.4.2 | Provision of ceiling hangers, wall slot opening for copper tubing and drain pipe (breaking of concrete, plastering, painting, and restoration works) for two (2) units 2.0 hp air conditioner | 1 | lot | | | | | | | | | | | | | |
| 1.5 | Radiation Processing Laboratory | | | | | | | | | | | | | | | |
| 1.5.1 | Supply and installation of 150 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø duct and vent cover | 2 | sets | | | | | | | | | | | | | |
| 1.5.2 | Removal of existing ceiling-mounted exhaust fans (2 units) | 1 | lot | | | | | | | | | | | | | |
| 2 | PNRI R3U Laboratories | | | | | | | | | | | | | | | |
| 2.1 | Sub-total Item 1 ChemoBio Lab | | | | | | | | | | | | | | | |

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|------------|---|-----|-------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|---------------|-------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | % | VALUE | | |
| 2.1.1 | Supply and installation of 2.5 hp air conditioner, window type, inverter, at Room 1 | 2 | units | | | | | | | | | | | | |
| 2.1.2 | Provision of wall slot for one (1) unit 2.5 hp window type air conditioner | 1 | lot | | | | | | | | | | | | |
| 2.1.3 | Supply and installation of 2.5 hp air conditioner, window type, inverter, at ChemBio Lab | 2 | units | | | | | | | | | | | | |
| 2.1.4 | Provision of wall slot opening for two (2) units 2.5 hp window type air conditioner | 1 | lot | | | | | | | | | | | | |
| 2.2 | Radiation Grafting Wet Laboratory | | | | | | | | | | | | | | |
| 2.2.1 | Supply and installation of 2.5 hp air conditioner, split type, wall-mounted, inverter, at Main Laboratory Area | 2 | sets | | | | | | | | | | | | |
| 2.2.2 | Provision of wall slot opening for copper tubing and drain pipe (breaking of concrete, plastering, painting, and restoration works) for two (2) sets 2.5 hp air conditioner | 1 | lot | | | | | | | | | | | | |
| 2.2.3 | Supply and installation of 10" Ø exhaust fan with damper, wall-mounted at Main Laboratory Area | 4 | units | | | | | | | | | | | | |
| 2.2.4 | Provision of wall slot opening for four (4) units exhaust fan | 1 | lot | | | | | | | | | | | | |
| 2.2.5 | Supply and installation of Fumehood with ducting and supports (Size: Width: 59" x Depth: 30" x Height: 96" including cabinet, fumehood made of S/S 316 material, interior: made of S/S 316 material G18; Exterior: made of S/S 316 material G18; Built-in corrosion resistant motor/blower assembly with 3/4 hp TEFC 1725 RPM, 230 V, with corrosion resistant fiber glass blower housing, polypropylene blower wheel, with adjustable baffle made of S/S 316, acid resistant fiberglass dash board, remote controlled serviced fixtures, for gas and water, with wash down system and drainage through 1 – vapor-proof lamp assembly, 220 V; 1 – motor and light switch); 2 – electrical outlet 220 v; 1-2 door wooden base cabinet with rubber vinyl base; Ducting: 8" diameter ducting, made of acid resistant fiberglass material complete with elbows, coupling, fittings and weather cap) | 1 | unit | | | | | | | | | | | | |
| 3 | Sub-total Item 2 | | | | | | | | | | | | | | |
| 3.1 | Health Physics Research Section (HPRS) | | | | | | | | | | | | | | |
| 3.1.1 | ARC First Floor, HPRS Lab Supply and installation of 1.0 hp air conditioner, split type, wall-mounted, inverter, with built-in automatic timer function or external automatic timer switch, at pantry room and storage room | 2 | sets | | | | | | | | | | | | |
| 3.1.2 | Provision of wall slot opening for copper tubing and drain pipe (breaking of concrete, plastering, painting, and restoration works) for two (2) sets of 1.0 hp ACU. | 1 | lot | | | | | | | | | | | | |
| 3.2 | ARC Second Floor, HPRS Lab | | | | | | | | | | | | | | |
| 3.2.1 | Supply and installation of 2.0 hp air conditioner, split type, wall-mounted, inverter, with built-in automatic timer function or external automatic timer switch, at HPRS storage room | 1 | set | | | | | | | | | | | | |
| 3.2.2 | Supply and installation of 1.5 hp air conditioner, split type, wall-mounted, inverter, with built-in automatic timer function or external automatic timer switch, at SOMER Room and HPRS office | 2 | sets | | | | | | | | | | | | |
| 3.2.3 | Provision of wall slot opening for copper tubing and drain pipe (breaking of concrete, plastering, painting, and restoration works) for three (3) sets of ACU (1 - 2.0 hp; 2 - 1.5 hp) | 1 | lot | | | | | | | | | | | | |
| 3.2.4 | Removal of existing window type air conditioners (3 units) and concreting of wall opening at HPRS Office, Storage Room and Somer Room | 1 | lot | | | | | | | | | | | | |

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|----------|---|-----|-------|---------------|------------|------------|------------|-----------------------|---------------------|-----|--------|---------------------|-----|------------------|------------|-----------|
| | | | | UNIT COST | TOTAL COST | UNIT COST | TOTAL COST | | CONT. | OCM | PROFIT | | | | | |
| | <i>Sub-total Item 3</i> | | | | | | | | | | | | | | | |
| | SUB-TOTAL (MECHANICAL WORKS) | | | | | | | | | | | | | | | |
| D | BMRS Microbiological and Molbio laboratories | | | | | | | | | | | | | | | |
| 1 | <i>Civil Works</i> | | | | | | | | | | | | | | | |
| 1.1 | Application of Self-leveling Epoxy floor coating at BMRS Microbiological and Molbio laboratories (Sika brand or Equal) | | | | | | | | | | | | | | | |
| 1.1.1 | Surface preparation of flooring | 175 | sq.m. | | | | | | | | | | | | | |
| 1.1.2 | Application of self-leveling epoxy floor coating (+/- 2.00mm thick) (Sika brand or equal) | 175 | sq.m. | | | | | | | | | | | | | |
| 2 | <i>Electrical Works</i> | | | | | | | | | | | | | | | |
| 2.1 | Installation of new slots of UV lamp and ceiling exhaust fan in the Microbiological Laboratory Preparation 1 and 2 area including its electrical distribution circuits and switches | 1 | lot | | | | | | | | | | | | | |
| 2.1.1 | Ceiling mounted exhaust fan with discharged line, ducting and ventilation | | | | | | | | | | | | | | | |
| 2.1.2 | UV lights assembly with 20W UV tube germicidal light | | | | | | | | | | | | | | | |
| 2.1.3 | 3.5mm ² THHN wire pheap codge | | | | | | | | | | | | | | | |
| 2.1.4 | 3-gang switch | | | | | | | | | | | | | | | |
| 2.1.5 | 5-gang switch | | | | | | | | | | | | | | | |
| 2.1.6 | 2' x 4" utility box | | | | | | | | | | | | | | | |
| 2.1.7 | 4" octagonal box | | | | | | | | | | | | | | | |
| | SUB-TOTAL (BRMS LABORATORIES) | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| TOTAL (CIVIL + MECHANICAL + ELECTRICAL+COMMUNICATION +BRMS LAB) | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

DIRECT COST

TOTAL MATERIAL COST _____

TOTAL LABOR COST _____

TOTAL DIRECT COST _____

INDIRECT COST

CONTINGENCY (3%) _____

OH/SUPERVISION (7%) _____

PROFIT (10%) _____

TOTAL MARK-UP _____

VAT (5%) _____

TOTAL INDIRECT COST _____

TOTAL DIRECT COST AND INDIRECT COST _____

TOTAL PROJECT COST Php

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
and
- (b) Registration certificate from Securities and Exchange Commission (SEC) with latest General Information Sheet (GIS), 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

- (e) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet , if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (f) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- (g) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **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) Project Requirements, which shall include the following:
 - 1. Organizational chart for the contract to be bid;
 - 2. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
 - 3. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **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.

- (k) Bid Bulletin (if applicable)
- (l) Certificate of Site Inspection

Financial Documents

- (m) The prospective bidder's audited financial statements, showing, among others, the prospective bidder'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 (2021 and 2022); **and**
- (n) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (o) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- (p) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- (q) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (r) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- (s) Cash Flow by Quarter

Bidding Forms

| | |
|--|----|
| LIST OF ALL ONGOING CONTRACTS..... | 59 |
| STATEMENT OF SLCC..... | 60 |
| BID SECURING DECLARATION..... | 61 |
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| LIST OF CONTRACTOR’S KEY PERSONNEL..... | 64 |
| LIST OF EQUIPMENT..... | 66 |
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Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
 Name of the Project: **Upgrading of ARC Building (CY 2023) – Design and Build**
 Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

List of all Ongoing Government & Private Construction Contracts including contracts awarded but not yet started

Business Name : _____
 Business Address : _____

| Name of Contract/Location Project Cost | a. Owner Name b. Address c. Telephone Nos. | Nature of Work | Contractor's Role | | a. Date Awarded b. Date Started c. Date of Completion | % of Accomplishment | | Value of Outstanding Works |
|---|--|----------------|-------------------|---|---|---------------------|--------|----------------------------|
| | | | Description | % | | Planned | Actual | |
| <u>Government</u> | | | | | | | | |
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| <u>Private</u> | | | | | | | | |
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| Total Cost | | | | | | | | |

- Note: This statement shall be supported with:
- 1 Notice of Award and/or Contract
 - 2 Notice to Proceed issued by the owner
 - 3 Certificate of Accomplishments signed by the owner or Project Engineer

Submitted by : _____
 Designation : _____
 Date : _____
 (Printed Name & Signature)

Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
 Name of the Project: **Upgrading of ARC Building (CY 2023) - Design and Build**
 Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

Statement of Single Largest Completed Contracts (SLCC) in the last five (5) years

Business Name : _____
 Business Address : _____

| Name of Contract | a. Owner Name b. Address c. Telephone Nos. | Nature of Work | Contractor's Role | | a. Amount at Award b. Amount at Completion c. Duration | a. Date Awarded b. Contract Effectivity c. Date Completed |
|-------------------|--|----------------|-------------------|---|--|---|
| | | | Description | % | | |
| <u>Government</u> | | | | | | |
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| | | | | | | |
| <u>Private</u> | | | | | | |
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Note: This statement shall be supported with:

- 1 Contract
- 2 CPES rating sheets and/or Certificate of Completion
- 3 Certificate of Acceptance

Submitted by : _____
 (Printed Name & Signature)
 Designation : _____
 Date : _____

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.
X-----X

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) from the receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Section 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.
1. 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 as the bidder with the Lowest Calculated and 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'S
AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant***

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
Name of the Project: **Upgrading of ARC Building (CY 2023) – Design and Build**
Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

Contractor’s Organizational Chart for the Contract

Submit Copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to him. Indicate in the chart the names of the Project Manager, Project Engineer, Bridge Engineer, Structural Engineer, Materials and Quality Control Engineer, Foreman and other Key Engineering Personnel.

Attached the required Proposed Organizational Chart for the contract as stated above

Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
 Name of the Project: **Upgrading of ARC Building (CY 2023) – Design and Build**
 Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

**KEY PERSONNEL
 (FORMAT OF BIO-DATA)**

Give the detailed information of the following personnel who are scheduled to be assigned as full-time field staff for the project. Fill up a form for each person.

- Authorized Managing Officer / Representative
- Sustained Technical Employee

1. Name : _____

2. Date of Birth : _____

3. Nationality : _____

4. Education and Degrees : _____

5. Specialty : _____

6. Registration : _____

7. Length of Service with the Firm : _____ Year from _____ (months) _____ (year)
 To _____ (months) _____ (year)

8. Years of Experience : _____

9. If Item 7 is less than ten (10) years, give name and length of service with previous employers for a ten (10)-year period (attached additional sheet/s), if necessary:

| <u>Name and Address of Employer</u> | <u>Length of Service</u> |
|-------------------------------------|-----------------------------------|
| _____ | _____ year(s) from _____ to _____ |
| _____ | _____ year(s) from _____ to _____ |
| _____ | _____ year(s) from _____ to _____ |

10. Experience:
 This should cover the past ten (10) years of experience. (Attached as many pages as necessary to show involvement of personnel in projects using the format below).

1. Name : _____

2. Name and Address of Owner : _____

3. Name and Address of the Owner’s Engineer (Consultant) : _____

4. Indicate the Features of Project (particulars of the project components and any other particular interest connected with the project): _____

- 5. Contract Amount Expressed in Philippine Currency : _____
- 6. Position : _____
- 7. Structures for which the employee was responsible : _____
- 8. Assignment Period : from _____(months) _____(years)
: to _____(months) _____(years)

Name and Signature of Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

(Place and Date)

(The Authorized Representative)

Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
 Name of the Project: **Upgrading of ARC Building (CY 2023) – Design and Build**
 Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

List of Equipment, Owned or Leased and/or under Purchase Agreements, Pledged to the Proposed Contract

Business Name : _____
 Business Address : _____

| Description | Model/Year | Capacity / Performance / Size | Plate No. | Motor No. / Body No. | Location | Condition | Proof of Ownership / Lessor or Vendor |
|-------------------------------------|------------|-------------------------------|-----------|----------------------|----------|-----------|---------------------------------------|
| A. Owned | | | | | | | |
| i. | | | | | | | |
| ii. | | | | | | | |
| iii. | | | | | | | |
| iv. | | | | | | | |
| v. | | | | | | | |
| B. Leased | | | | | | | |
| i. | | | | | | | |
| ii. | | | | | | | |
| iii. | | | | | | | |
| iv. | | | | | | | |
| v. | | | | | | | |
| C. Under Purchase Agreements | | | | | | | |
| i. | | | | | | | |
| ii. | | | | | | | |
| iii. | | | | | | | |
| iv. | | | | | | | |
| v. | | | | | | | |

List of minimum equipment required for the project:

Submitted by : _____
 Designation : _____
 Date : _____
 (Printed Name & Signature)

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

A F F I D A V I T

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 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 of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for [Name of the Project] of the [Name of the Procuring Entity];

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 and/or to represent the [Name of Bidder] in the bidding as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate issued by the corporation or the members of the joint venture)];

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: I am 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 following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure 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]

Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
Name of the Project: **Upgrading of ARC Building (CY 2023) – Design and Build**
Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

AUTHORITY OF SIGNATORY

SECRETARY’S CERTIFICATE

I, _____, a duly elected and qualified Corporate Secretary of _____ (Name of the Bidder), a corporation duly organized and existing under and by virtue of the law of the _____, DO HEREBY CERTIFY, that:

I am familiar with the facts herein certified and duly authorized to certify the same;

At the regular meeting of the Board of Directors of the said Corporation duly convened and held on _____ at which meeting a quorum was present and acting throughout, the following resolutions were approved, and the same have not been annulled, revoked and amended in any way whatever and are in full force and effect on the date hereof:

RESOLVED, that _____ (Name of the Bidder) be, as it hereby is, authorized to participate in the bidding of _____ (Name of the Contract) _____ by the _____ (Name of the Procuring Entity); and that if awarded the Contract shall enter into a contract with the _____ (Name of the Procuring Entity); and in connection therewith hereby appoints _____ (Name of Representative), acting as duly authorized and designated representatives of _____ (Name of the Bidder), and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent _____ (Name of the Bidder) in the bidding as fully and effectively as the _____ (Name of the Bidder) might do if personally present with full power of substitution and revocation and hereby satisfying and confirming all that my said representative shall lawfully do or cause to be done by virtue hereof;

RESOLVED FURTHER THAT, the Board hereby authorizes its President to:

- (1) execute a waiver of jurisdiction whereby the _____ (Name of the Bidder) hereby submits itself to the jurisdiction of the Philippine government and hereby waives its right to question the jurisdiction of the Philippine courts;
- (2) execute a waiver that the _____ (Name of the Bidder) shall not seek and obtain writ of injunctions or prohibition or restraining order against the AFP or any other agency in connection with this Contract to prevent and restrain the bidding procedures related thereto, the negotiating of and award of a contract to a successful bidder, and the carrying out of the awarded contract.

WITNESS the signature of the undersigned as such officer of the said _____ this _____.

(Corporate Secretary)

ACKNOWLEDGMENT

SUBSCRIBED AND SWORN to before me this _____ day of _____, 20____ affiant exhibited to me his/her Community Tax Certificate No. _____ issued on _____ at _____, Philippines.

Notary Public
Until 31 December 20____
PTR No. _____
Issued at: _____
Issued on: _____
TIN No. _____

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
Name of the Project: **Upgrading of ARC Building (CY 2023) – Design and Build**
Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

AUTHORITY OF SIGNATORY

SPECIAL POWER OF ATTORNEY

I, _____, President of _____, a corporation incorporated under the laws of _____ with its registered office at _____, by virtue of Board Resolution No. _____ dated _____, has made, constituted and appointed _____ true and lawful attorney, for it and its name, place and stead, to do, execute and perform any and all acts necessary and/or represent _____ in the bidding of _____ as fully and effectively as corporation might do if personally present with full power of substitution and revocation and hereby confirming all that said representative shall lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 20____ at _____.

Signed in the Presence of:

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
QUEZON CITY)SS.

BEFORE ME, a Notary Public for and in Quezon City, Philippines, this _____ day of _____, 20____, personally appeared:

| <u>NAME</u> | <u>CTC NO.</u> | <u>ISSUED AT/ON</u> |
|-------------|----------------|---------------------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

known to me and known to be the same person who executed the foregoing instrument consisting of _____ () pages, including the page whereon the acknowledgments is written and acknowledged before me that the same is his free and voluntary act and deed and that of the Corporation he represents.

WITNESS MY HAND AND NOTARIAL SEAL, at the place and on the date first above written.

Notary Public
Until 31 December 20____
PTR No. _____
Issued at: _____
Issued on: _____
TIN No. _____

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

Procuring Entity: **PHILIPPINE NUCLEAR RESEARCH INSTITUTE**
 Name of the Project: **Upgrading of ARC Building (CY 2023) – Design and Build**
 Location of the Project: **PNRI Compound, Commonwealth Avenue, Diliman, Quezon City**

FINANCIAL DOCUMENTS FOR ELIGIBILITY CHECK

- A. Summary of the Applicant Firm’s/Contractor’s assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped “RECEIVED” by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

| | | Year 20 |
|----|--|---------|
| 1. | Total Assets | |
| 2. | Current Assets | |
| 3. | Total Liabilities | |
| 4. | Current Liabilities | |
| 5. | Total Net Worth (1-3) | |
| 6. | Current Net Worth or Net Working Capital (2-4) | |

- B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [Current Asset – Current Liabilities] (15) minus value of all outstanding works or uncompleted portions of the project under ongoing contracts including, awarded contracts yet to be started coinciding with the contract to be bid.

The values of the domestic bidder’s current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR

Submitted by:

 Name of Firm / Contractor

 Signature of Authorized Representative

Date : _____

NOTE:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

Bid Form

Date: _____

Project Identification No: _____

To: *[name and address of PROCURING ENTITY]*

Address: *[insert address]*

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, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract *[insert name of contract]*;
- (b) We offer to execute the Works for this Contract in accordance with the PBDs;
- (c) The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- (d) The discounts offered and the methodology for their application are: *[insert information]*;
- (e) 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 and reflected in the detailed estimates;
- (f) Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- (g) If our Bid accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines for this purpose;
- (h) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- (i) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- (j) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (k) We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and 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 the *[Name of Project]* of the *[Name of the Procuring Entity]*.
- (l) We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

In the capacity of: _____

Signed: _____

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

Date: _____

