# PHILIPPINE BIDDING DOCUMENTS

# Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A

Project number: 23-00029

Sixth Edition July 2020

### **Preface**

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the "Works") through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv)the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the "name of the Procuring Entity" and "address for bid submission," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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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

### **Notes on the Invitation to Bid**

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



# REPUBLIC OF THE PHILIPPINES QUEZON CITY GOVERNMENT BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE &



CONSULTANCY
2<sup>nd</sup> floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

March 29, 2023

### Invitation to Bid

N o.	Project No.	Project Name	Location	Amount	Durat ion Cal. Days	Office	Source Fund
Bu	ildings -	Small B					
1	23- 00028	Proposed Rehabilitation of Police Station 15	Project 6	661,315.86	60	Department of Engineering	Engineering Department
2	23- 00029	Proposed Rehabilitation of Quirino 2-A Fire Station	Quirino 2- A	2,929,713.65	90	Department of Engineering	Engineering Department
3	23- 00030	Proposed Construction of Urban Farming Innovation and Learning Center	San Bartolome	9,494,989.10	150	Department of Engineering	Engineering Department
4	22- 00107B	Proposed Upgrading of Electrical System at Apolonio Samson Elementary School	Apolonio Samson	5,114,276.17	90	Department of Engineering	Special Education Fund Continuing Appropriation
5	22- 00137B	Proposed Construction of Waiting Shed at Wayan Street	Masambong	1,461,471.37	60	Department of Engineering	Engineering Department- Continuing Appropriation
6	22- 00139B	Proposed Rehabilitation of San Bartolome Multi- Purpose Hall	San Bartolome	1,846,604.16	60	Department of Engineering	Engineering Department- Continuing Appropriation
Ви	ildings –	Medium A		2			
7	23- 00031	Proposed Construction of Three (3) storey with Roof Deck Multi-Purpose Building	Krus Na Ligas	47,189,596.36	300	Department of Engineering	OCM-20% Community Development Fund
Ro	ads – Sn	nall B					
8	23- 00022	Proposed Rehabilitation (Surface Improvement) at San Lorenzo Ruiz Street	Talipapa	827,700.13	30	Department of Engineering	OCM-20% Community Development Fund
9	23- 00032	Proposed Rehabilitation (Surface Improvement) at Sto. Niño Street	Tatalon	1,660,133.03	30	Department of Engineering	OCM-20% Community Development Fund
10	23- 00033	Proposed Rehabilitation (Surface Improvement) at Candelaria Street	Greater Lagro	3,617,062,89	30	Department of Engineering	OCM-20% Community Development Fund
11	23- 00034	Proposed Rehabilitation (Surface Improvement) of San Pablo Street	Bagumbayan	3,833,873.77	60	Department of Engineering	OCM-20% Community Development Fund

12	23- 00035	Proposed Rehabilitation (Surface Improvement) at Columbia and Illinois Streets	Silangan	4,355,509.26	60	Department of Engineering	OCM-20% Community Development Fund
13	23- 00036	Proposed Rehabilitation (Surface Improvement) of Buenamar and Panday Pira Streets	Novaliches Proper	6,406,477.33	90	Department of Engineering	OCM-20% Community Development Fund
14	23- 00037	Proposed Rehabilitation (Surface Improvement) at Quirino High School	Duyan- Duyan	6,786,675.82	60	Department of Engineering	OCM-20% Community Development Fund
15	23- 00038	Proposed Rehabilitation (Surface Improvement) at Robin, Eagle, Dove, Cardinal, Chickadee, Peacock, Pelican and Lovebird Streets	Kaligayahan	11,028,785.54	60	Department of Engineering	OCM-20% Community Development Fund
16	23- 00039	Proposed Rehabilitation of Sidewalk and Drainage at Champaca Street	Roxas	14,222,091.36	90	Department of Engineering	OCM-20% Community Development Fund
17	23- 00040	Proposed Rehabilitation (Surface Improvement) and Drainage at Matatag and Maunawain Streets	Pinyahan	15,124,446.43	120	Department of Engineering	OCM-20% Community Development Fund
18	23- 00041	Proposed Rehabilitation (Surface Improvement) at Panay Avenue (Timog Avenue - EDSA)	South Triangle	23,692,572.05	60	Department of Engineering	OCM-20% Community Development Fund
19	22- 00150B	Proposed Construction of Box Culvert at Road lot - 68	Marilag	2,123,619.82	60	Department of Engineering	Local Disaster Risk Reduction and Management Fund – Continuing Appropriation

- The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years
  intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to
  payments under the contract for the above stated Projects. Bids received in excess of the ABC
  shall be automatically rejected at bid opening.
- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. 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).
- Bidding will be conducted through open competitive bidding procedures using nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. – 5:00 p.m.
- A complete set of Bidding Documents may be acquired by interested bidders on 30 March 2023 (Thursday) from given address and website/s below and upon payment of a nonrefundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the

*GPPB*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.

### **STANDARD RATES:**

<b>Approved Budget for the Contract</b>	Maximum Cost of Bidding Documents (in Philippine Peso)
More than 500,000 up to 1 Million	1,000.00
More than 1 Million up to 5 Million	5,000.00
More than 5 Million up to 10 Million	10,000.00
More than 10 Million up to 50 Million	25,000.00
More than 50 Million up to 500 Million	50,000.00
More than 500 Million	75,000.00

The following are the requirements for purchase of Bidding Documents;

- 1. PhilGEPS Registration Certificate (Platinum 3 Pages)
- 2. Document Request List (DRL)
- 3. Authorization to purchase bidding documents
  - 3.1 Secretary's Certificate (for corporation)
  - 3.2 Special Power of Attorney (for sole proprietorship)
- 4. Notarized Joint Venture Agreement (if applicable)
- 5. Letter of Intent

It must be duly received by the BAC Secretariat at 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The *QC-BAC-INFRASTRUCTURE* & *CONSULTANCY* will hold a Pre-Bid Conference<sup>1</sup> on **April 12, 2023** at **10:00 AM** at **2<sup>nd</sup> Floor**, **Procurement Department-Bidding Room**, **Finance Building**, **Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference** (**ZOOM APP**) which shall be open to prospective bidders.

**Virtual Conference (ZOOM APP)** 

Meeting ID: 854 9489 0133

**Password: 273320** 

- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **April 27, 2023 9:00 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 **April 27, 2023 10:00 AM** at **2<sup>nd</sup> Floor**, **Procurement Department-Bidding Room**, **Finance Building**, **Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

**Virtual Conference (ZOOM APP)** 

Meeting ID: 810 3646 5257

**Password: 201522** 

10. The *Quezon City Local Government* 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.

May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

11. For further information, please refer to:

### ATTY, DOMINIC B. GARCIA

OIC, Procurement Department 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound Elliptical Road, Barangay Central Diliman, Quezon City. Tel. No. (02)8988-4242 loc. 8506/8710 Email Add; bacinfra.procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

12. You may visit the following websites:

For downloading of Bidding Documents: <a href="https://quezoncity.gov.ph/public-notices/procurement/">https://quezoncity.gov.ph/public-notices/procurement/</a>

By:

ARCH. LUCILLE H. CHUA, fuap, picp Chairperson, BAC-Infra and Consultancy

# Section II. Instructions to Bidders

### **Notes on the Instructions to Bidders**

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

### 1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A, with Project Identification Number 23-00029.

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

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

### 2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for 2023 in the amount of Two Million Nine Hundred Twenty-Nine Thousand Seven Hundred Thirteen Pesos and 65/100 Ctvs. (P 2,929,713.65).
- 2.2. The source of funding is:
  - a. LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

### 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

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. 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**.

- 5.3. 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.
- 5.4. 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

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

### a. Subcontracting is not allowed.

- 7.1. [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 criterial 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.
- 7.2. [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.

7.3. 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 on April 12, 2023, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

### 9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

# 10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. 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.
- 10.3. 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**.
- 10.4. 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**.
- 10.5. 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:
  - a. 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**.
- 15.2. The Bid and bid security in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government. 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 5 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 15 shall be submitted for each contract (lot) separately.
- 19.3. 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

### **Notes on the Bid Data Sheet (BDS)**

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

# **Bid Data Sheet**

ITB Clause					
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.				
7.1	Subcontracting is not allowed.				
10.3	No additional contractor license or permit is required  In addition, eligible bidders shall qualify or comply with the following:				
	Bidders with valid Philippine Contractors Accreditation Board (PCAB)      Type      Building - Small B				
10.4	following:	equirements for key personnel are the  l Experience Relevant Experience			
	1 Project-in-Charge 3 (Project Engineer)	years 3 years			
	1 General Foreman 3	years 3 years			
	1 Trade Engineer/Leadman 3 for civil works	years 3 years			
	1 Trade Engineer/Leadman 3 for electrical works	years 3 years			
	1 Trade Engineer/Leadman 3 for mechanical works	years 3 years			
	1 Safety Officer 3	3 years 3 years			
	1 DPWH duly accredited Materials Engineer 3	3 years			
	•	cute an affidavit of undertaking duly personnel shall perform work exclusively Please see attached bid forms.			
10.5	The minimum major equipment requi	rements are the following:			
	Equipment	Capacity Number of Units			
	Dumptruck Jackhammer	1 1			

	Compactor 1
	In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.
12	[Insert Value Engineering clause if allowed.]
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:
	a) The amount of not less than Php 58,594.27 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or
	b) The amount of not less than Php 146,485.68 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	<b>Partial bid is not allowed.</b> The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	Additional Contract Documents relevant to the Project as required: 1. Construction Schedule and S-curve, 2. Manpower Schedule, 3. Construction Methods, 4. Equipment Utilization Schedule, 5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.

# Section IV. General Conditions of Contract

### **Notes on the General Conditions of Contract**

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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

- 3.1 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.
  - 3.2 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

### **Notes on the Special Conditions of Contract**

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

# **Special Conditions of Contract**

GCC Clause	
2	Completion of work shall be within 90 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the
	Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [list here the required site investigation
	reports.]
7.2	[Select one, delete the other.]
	[In case of permanent structures, such as 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:] Fifteen (15) years.
	[In case of semi-permanent structures, such as 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:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is thirty (30) days  The date by which "as built" drawings are required as part of final
15.0	payment
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

# Section VI. Specifications

### **Notes on Specifications**

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

### Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

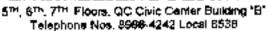
subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.



### Replublika ng Pilipinas Lungsod ng Quezon

### CITY ENGINEERING DEPARTMENT





PROJECT TITLE:

LOCATION:

PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT

BARANGAY QUIRING 2-A

BARANGAY QUIRINO 2-A, DISTRICT 3, QUEZON CITY

### TECHNICAL SPECIFICATIONS

### GR. GENERAL REQUIREMENTS

- A. Comply with the current end existing laws, ordinances and applicable codes, rules and regulations, and standards. Any works performed contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arrang therefrom.
- B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply
- C. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- D. Photographs shall be taken as when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location, to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- E Site verification / Inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- F. The quality of meterials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All metenals not conforming to the requirements of these specifications shall be considered as defective.
- G. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- H Mobilization and Demobilization (if applicable)
  - 1 Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
  - 2 Demobrization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- Execute work in strict accordance with the best prectices of the trades in a thorough, substantial workmanlike manner by competent workman. Provide a competent, experienced, fulf-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Facilities and Utilities.
  - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types
  - Temporery facilities shall be provided and maintained including sanitary facilities and first aid stations.

- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage.
- Temporary roadways shall be constructed and maircained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demotished, heuled-outend disposed property
- K Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property
  - 1 A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
  - 2 The medical room shall be provided with waterproofing; if could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
  - The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site
  - Additional safety precautions shall be provided in the event of a pandemic. Protocols
    set forth by the government shall be strictly followed.
  - Construction safety shall consist of construction canopy and safety net.
- Necessary protections to the adjacent property shall be provided to evoid untoward incidents? accidents.
- M. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

### SW. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing work.
- B. This Item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract.

Removal and/or demolstion of existing structures shall be done in accordance to safety procedures.

C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.

The Contractor shall notify the Engineer sufficiently in edvance of the beginning of any excavation so that cross-sectional elevations and measurements may be taken on the undisturbed ground. The natural ground adjacent to the structure shall not be disturbed without permission of the Engineer.

Tranches or foundation pits for structures or structure footings shall be excavated to the lines and grades or elevations shown on the Ptens or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown. The elevations of the bottoms of footings, as shown on the Ptans, shall be considered as approximate only and the Engineer may order, in writing, such changes in dimensions or elevations of footings as may be deemed necessary, to secure a setisfactory foundation.

Boulders logs, and other objectionable materials encountered in excavation shall be removed.

After each excavation is completed, the Contractor shall notify the Engineer to that effect and no footing, bedding material or pipe culvert shall be placed until the Engineer has approved the depth of excavation and the character of the foundation material.

O. All excavated materials, so far as suitable, shall be utilized as backfill. The surplus materials shall be disposed of in such manner as not to obstruct the stream or otherwise impair the efficiency or appearance of the structure. No excavated materials shall be deposited at any time so as to endenger the parity finished structure.

All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted by wetting, tamping and rolling.

- E. Soil Poisoning. There are two methods usually adopted in soil poisoning which are as follows:
  - Cordoning. This method is usually adopted when there is no visible evidence of termite infestation. Trenches in concentric circles, squares or rectangles are dug 150mm to 220mm wide and at least one meter epart and applied with Liquid Termicide Concentrate working solution at the rate of 8 liters per linear meter.
  - Drenching. When soil show termite infestation, this method shall be applied. The building area shall be thoroughly drenched with Liquid Termicide Concentrate working solution at the rate of 24 lifers per square meter.

### CWS. CIVIL / STRUCTURAL WORKS

### CWSW. CONCRETE WORKS

- Delivery, Storage, and Handling: All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.
- 2. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to Install embedded items. Provisions shall be made for setting items not placed in the forms. Sefore concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

### 3 Materials

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150).
- b Water used in mixing concrete shall be clean and free from other injunous amounts of cits, acids, alkaline, organic materials or other substances that may be deterrious to concrete or steet.
- c Fine aggregates shall be beach or river sand conforming to ASTM C33. "Specification for Concrete Aggregates". Sand particle shall be course, sharp, clean free from selt, dust, loam, dirt and all foreign matters.
- d Coerse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one lifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor targer than three fourths (3/4) of the minimum clear specing between reinforcing bars or between reinforcing bars and forms.

### 4. Preportioning and Mixing.

 Proportioning and mixing of concrete shell conform to the requirements for them 405 of the standard specification with the following proportions:

Cement: Şand: Gravel Class (A' - 1; 2; 3 Class (B' - 1; 2; 4 Class (C'' - 1; 2 ½

- Concrete mixture to be used for concrete shall conform with the structural requirements.
- c. Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

### 5. Forms

- a. General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjecent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or morter from the concrete. Forms shall be ¼' (6mm) thick ordinary plywood and form lumber.
- 6 Cleaning of Forms before placing the concrete, the contact surfaces of the formed half be cleaned of encrustations of mortar, the grout or other foreign material.
- c. Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and siring shall be started as soon as the surface is sufficiently hard to permit it without further damage.

### Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary tie wires, chairs, spacers, supports and other devices necessary to install and secure the reinforcement property. All reinforcement, when placed, shall be free from loose, flaky nust and scale, oil, grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way to the discoloration or deterioration of the concrete.

### Conveying and Placing Concrete

- a. Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and mibedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- c. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more.

than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.

- d. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and temping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation eround major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- e. Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and stabs, where the congestion of steel near the forms makes placing difficult, a layer of morter of the same centeri-sand ratios as used in concrete shall be first deposited to cover the surfaces.

### Curing

- General All concrete shall be moist cured for a period not less than seven
   (7) consecutive days by an approved method or combination applicable to local conditions.
- Moist Curing The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

### 9. Finishing

- a. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.
- b. Concrete Stabs on Fill. The concrete stabs on fill shall be faid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying stab except when indicated.

# CWSMA. MASONRY WORKS

- Masonry Units (Concrete Hollow Blocks);
  - a 100mm thick for all interior walls and 150mm thick for all exterior walls unless otherwise indicated.
  - b Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
  - c. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns and limitel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height and other considerations.

### 2. Sand:

S-1, washed, clean and greenish in color

### 3 Mortar:

One part Portland cament and two parts sand and water but not more than three parts sand and water.

### Reinforcement

The concrete hollow blocks shall be reinforced with 10mm diameter deformed bar, spaced not more than 0.8m on centers, both ways.

### Plaster bond:

The mixture of cement plaster for concrete hollow block wall finishes indicated in the drawings shall be one part Portland cement and three parts sand.

6 Floor Topping Preparation for Tilework. One part Portland cement and two parts sand and water but not more than three parts sand and water.

### CW8PRW. ROOFING WORKS

- 1. Corrugated galvenized won (G I.) sheets, including plain aluminum sheets for roofing eccessories shall be cold-rolled meeting ASTM A-153 and with spetter coating of zinc of not less than0.381 kg/sq m. (1.25 ounce/sq ft.) conforming to ASTM A-525 or pns 67:1985. Unless otherwise specified or shown on Plans, roofing sheets shall be gauge 28 (0.48mm thick) and provided in long span sizes to minimize end laps. Sheets shall weigh not less than 3.74 kg/sq.m. and shall be marked or stamped showing the gauge, size amount of zinc coating brand and name of manufacturer. Test specimens shall stand being bent through 180 degrees flat on itself without frequire of the base metal and without flaking of the zinc coating.
- Ridge/hip rolls, valleys. Rashing and counter flashings, guitters and downspouts, whenever required, shall be fabricated from plain G.I. sheets. Ridge/hip rolls, flashings and counter flashings shall be gauge 26. Valleys, guitters and downspouts shall be gauge 24 unless otherwise specified on Plans. Wire basket strainers shall be galvanized, gauge 24.

Roof ventilators, whenever required shall be fabricated from gauge 26 plain G.f. sheets and constructed to the dimensions and detaits shown on Plans.

- 3. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Provide all-purpose sealent under the fasteners. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 4. Polycarbonate roofing and sumbreakers shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 % max. 3' long Tek screws. Provide all-purpose sealant under the fasteners. Ridge rolls, hip rolls and valleys to be used shall be those competible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 5. All roofing sheets edjacent to concrete hollow block and other masonry walls such as property time firewalls, shell be provided with Gauge 25 pre-painted plain G I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from stending around the fasteners.
- Provide 6mm thick thermal insulation with single-side atuminum foil prior to fastering of roofing sheets to serve as thermal protection.

# AWG1. METAL FABRICATION

# 7. Materials:

a. Steel and from it not specified otherwise, use standard milt-finished structural steel shapes or bar from in compliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for buildings.

- Bolts, Nuts, Studs and Rivete. ASTM A 307 and A 325.
- Screws, Fed. Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec. FF-S-111
- Metal Purlins. High grade galvanized steel with minimum tensile strength of 275 MPa, 1 4mm in thickness or approved equal.

### 8. Fabrication:

By mechanics skilled in the trade and in accordance with the manufecturer's directions. Metalwork shall be fabricated to allow for expansion and contraction of materials. Provide welding and bracing of adequate strength and durability, with tight, flush joints, dressed smooth and clean. Complete with bolts and nuts.

### Metal Surfaces:

Surfaces shall be clean and free from all scale, flake, rust and rust pitting; well-formed and finished to shape and size, with sharp lines, angle and smooth surface. Shearing and punching shall leave clean true lines and surfaces. Weld or rivet permanent connections. Weld and flush rivets shall be used and finished flush smooth on surfaces that will be exposed after installation. Do not use screws or bolls where they can be evoided; when used, heads shall be countersunk, screwed up tight and threads nicked to prevent loosening.

### 10. Construction:

Thickness of metals and details of assembly and supports shall give ample strength and stiffness for the minimum loads specified or indicated. Joints exposed to weather shall be formed to exclude water.

## 11 Welding:

Use welding electrode E70xx and perform welding, welding inspection and corrective welding in accordance with AWS D1.1. Weld in a manner to prevent permanent distortion of the connected parts. Weld continuously along the entire area of contact (except where tack welding is permitted. Do not tack weld exposed to connections). Grind smooth visible weld in finished installation.

# AW. ARCHITECTURAL WORKS

# AW64. FLOOR FINISHES

12 Ceramic Tiles. Unglazed ceramic tiles shall be hard, dense tiles of homogeneous composition its color and characteristics area determined by the materials used in the body, the method of manufacture and the thermal treatment

Tale work shall not be started until roughing-ins for senitery/plumbing, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage.

13. Vinyl Floor Tites. Vinyl tiles shall be of first grade quality. Fully homogeneous, flexible, resilient, and resistant to alkali moisture, grease and oil. The color and design pattern of the vinyl tile shall be uniformly distributed throughout the thickness of the tile. Vinyl tiles shall be 2mm thick.

Installation of the title shall not commence until the work of other trades, including painting has been completed. The Contractor shall carefully examine all surfaces over which the tiles are to be set. Floor surfaces that are to receive viryl tile shall be clean thoroughly, dry, smooth, firm and sound and free from oil, paint, wax, din and any other damaging material.

Cement Floor Finish. Mortar topping shall be one part Portland cement and three
parts fine eggregate by loose volume.

Finish topping shall be pure Portland coment properly graded, mixed with water to approved consistency and plasticity. Where required to be colored cement floor finish-

red or green oxide powder shall be premixed with Portland dement complying with finish topping requirements and the desired color intensity. Cement floor finish floor hardener shall be premixed as required and applied in accordance with the manufacturer's instruction manual.

 Pebble Washout Finish. Pebble shall be well graded stones sized ranging from #410 #10 rounded specie.

All pebble washout faish shall be done by men experienced and qualified to do this particular type of trade. The Contractor shall submit at least two samples for each type of pebble washout tinish to the Engineer/Architect for approval showing its color, texture and design patterns.

Pebble washout finish mix shall consist of one part Portland cement and two parts pebble measured by volume or a proportion equivalent to 1.2. Mixtures shall be in approved containers to ensure that the epecified materiess are controlled and accurately measured. Mixtures measured by shovel or shovel counts will not be permitted. Unless specified otherwise pebble washout mix shall be in the proportion by volume in approved mixing machines or mortar boxes. The aggregates introduced and mixed in such a manner that the materials will be uniformly distributed throughout the mass. A sufficient amount of water shall be added gradually and the mass further mixed until a mortar plasticity mecassary for the purpose intended is obtained. Mortar boxes, pans etc. where mixtures are mixed shall be keep clean and free from debris or dried mortar.

# AW03. WALL FINISHES AND PARTITIONING

1 Ceramic Tiles. Glazed tiles and trims shall have an impervious face of ceramic materiels fused onto the body of the tiles and times. The glazed surface may be clear white or colored depending on the color scheme approved by the Engineer. Standard glazes may be bright (glossy), semi-mate (less glossy), matte (dull) or crystalline (mottled and textured; good resistance to abrasion).

Tite work shall not be started until roughing-ins for sanitary/plumbing, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage.

 Cement Pleater Finish. Mortar mixture for brown coat shall be freshly prepared and unaformly mixed in the proportion by volume of one part Portland cement, three (3) parts sand and one fourth (1/4) part hydrated lime.

Finish coat shall be pure Portland cement properly graded conforming to the requirements and mixed with water to approved consistency and plasticity.

 Oouble-Wall Fiber Cement Soard Drywall on Metal Studs. Wall penel shall be two (2) 6 mm thick fiber cement boards, properly out and prepared for installation and shall conform to the requirements of the Plans.

Metel Studs. Well framing shall consist of 0.6 mm thick aluminum metal studs and aluminum metal tracks.

Fasteners and Connection detail, All construction and connections shall be secured with rivets, screws and drive pins, and shall conform to local and standard codes. Connections shall also be secured with gypeum putty and gypsum tape.

4. Tollet Partition.

# AW02. CEILING FINISHES

5. Fiber Cement Board on Metal Frame. The ceiling materials to be used shall conform to the samples approved by the City Engineer. All ceiling works shall be done by men experienced and qualified to do this particular specially trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to

- complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking.
- 6. Moisture-Resistant Gypsum Board on Metal Frame. The ceiling materials to be used shall conform to the samples approved by the City Engineer. All ceiling works shall be done by men experienced and qualified to do this particular specialty trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking.
- 7. Gypsum Board on Metal Frame. The ceiting materials to be used shall conform to the samples approved by the City Engineer. All ceiting works shall be done by men experienced and qualified to do this particular specialty trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by encharage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical cuttlets, pipes and other works extending through materials shall be seeled with caulking.
- 8. Acoustic Board Celling on T-Runner Frame. The ceiling materials to be used shall conform to the samples approved by the City Engineer. All ceiling works shall be done by men experienced and qualified to do this particular specialty trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Celling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints eround electrical outlets, pipes and other works extending through materials shall be seeled with cautking.
- 9. Slab Soffit.

# AWP, PAINTING WORKS

- Peint Meterials. All types of paint material and other related products shall be subject to test as to material composition by the Bureau of Research and Standard, DPWH or the National Institute of Science and Technology.
- Tinting Colors. Tinting colors shall be first grede quality pigment ground in alkyd resinthat disperses and mixes easily with paint to produce the color desired. Use the same brand of paint and tinting color to effect good paint body.
- Skim coat. Skim coat shall be fine powder type material like kalsomine that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.
- Paint Schedule.
  - Exterior Masonry Wall (plain cement plastered finish to be painted)
    - 1 coat skim coating, 1 cost primer, 2 coats etastomeric point finish.
  - b. Interior Masonry Wall (plain cement plastered finish to be painted)
    - i. 1 coat skim coating, 1 coat primer, 2 coats latex paint finish
  - c. Interior Dry Wall
    - i. 1 coat primer, 2 coats latex paint finish
  - d. Ceiling Boards

- 1 coat primer, 2 coats latex paint finish.
- e. Stab Soffit
  - 1 coat primer, 2 coats latex paint finish
- Metal / Steel Surfaces
  - i coat primer, 2 coats epoxy enamel finish.
- 5 Surface Preparation All surfaces shall be in proper condition to receive the finish. Woodworks shall be hand-sanded smooth and dusted clean. All knot-holes patch pockets or sappy portions shall be sealed with natural wood filler. Naif holes, cracks or defects shall be carefully puttled after the first cost, metching the color of paint.

Interior woodworks shall be sandpapered between coats. Cracks, holes of imperfections in plaster shall be filled with patching compound and smoothed off to match adjoining surfaces.

Concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry before any painting primer coat is applied. When surface is dried apply first coating. Hairline cracks and unevenness shall be patched and sealed with approved putty or patching compound. After all defects are corrected apply the finish coats as specified on the Plans (color scheme approved).

Metal shall be cleen, dry and free from mili scale and rust. Remove all grease and oil from surfaces. Wash, unprened galvanized metal with exching solution and allow it to dry. Where required to prime coat surface with Red Lead Primer same shall be approved by the Engineer.

In addition, the Contractor shall undertake the following:

- Voids, crecks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces.
- b Married or damaged shop coats on metal shall be spot primed with appropriate metal primer
- Panting and varnishing works shall not be commenced when it is too hot or cold.
- Allow appropriate ventilation during application and drying period
- All hardware will be fitted and removed or protected prior to painting and varnishing works.
- Application Paints when applied by brush shall become non-fluid, thick enough to lay down as adequate film of wet paint. Brush marks shall have flawed out after application of paint.

Peints made for application by roller must be similar to brushing paint. It must be nonsticky when thinned to spraying viscosity so that it will break up easily into droplets.

Paint is atomized by high pressure pumping rather than broken up by the large volume of air mixed with it. This procedure changes the required properties of the paint

- Application shall be as per paint Manufacturer's specification and recommendation
- Provide all drop cloth and other covering requisite for protection of floors, walls, sluminum, glass, finishes and other works.
- All applications and methods used shall strictly follow the Marsifecturer's Instructions and Specifications.
- All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry well shall be treated with Neutralizer.

- 11 All exposed finish hardwere, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

## S/PW. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- Supply, installation and testing of the following.
  - 1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, babbs, insulation, all accessories required for complete and operational of the system.
  - Water service connections including but not limited to water maters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
  - Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, littings, valves, cleanout, drains, etc. Complete and operational.
  - 4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational
- Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shell meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufecturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Confractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Confractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the tayout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment components and accessories shall be delivered to the Site in a new condition, property pecked and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other

- circumstances and, as far as practicable, they shall be kept in the packing cases of under approved protective coverings until required for use.
- L. Any items suffering from demage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N All installed pipetines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P The Contractor shall carry out hydraulic test on the complete plumbing systems and the dramage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in wells and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- T. The Senitary Contractor must carry out any additional tests required by the end-user anti/or approving agency.
- U Drainage pipe shall be tested by fitting the pipe with 3m, of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V Testing of dramage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Dramage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within times and under conditions indicated according to ASCE/SEL?
- Y Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expension joints, expansion toops, expansion bends, and similar units.
- Z Install lateral bracing with pipe hangers and supports to prevent sweying.
- AA Install building attachments within concrete stabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed: fasten inserts to forms and install reinforcing bers through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping

### EW. ELECTRICAL WORKS

### A. CONDUITS, BOXES AND FITTINGS.

- This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits: conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughingin work of this project.
- All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
- All works throughout shall be executed in the best practice in a workmanlike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
- 4. The work to be done under this division of specifications consists of the fabrication, furnishing delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
- 5. All lighting fixtures and lamps are as specified and listed on lighting fixture schedule.
- 6 All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
- 7 Alt auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/hurse's cell/paging system installations shall be done in accordance with the approved design.
- 8 Upon completion of the electrical construction work, the contractor + shall provide all test equipment and personnel and to submit written copies of all test results.
- 9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

# B. WIRES AND WIRING DEVICES

- This Item shall consist of the furnishing and installation of all wires and wiring devices
  consisting of electric wires and cables, well switches, convenience receptacles, heavy
  duty receptacles and other devices shown on the approved Plans but not mentioned
  in these specifications
- Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
- 3. Conductors or wires shall not be drawn in conduits until after the cement plaster is dry and the conduits are thoroughly cleaned and free from dirt and mosture. In drawing wires into conduits, sufficient sleck shall be allowed to permit easy connections for fixtures, switches, receptacles and other wiring devices without the use of additional solices.
- All conductors of convenience outlets end lighting branch circuit homenums shall be wired with a minimum of 3.5 mm in size. Circuit homenums to panelboards shall not be

- smaller than 3.5 mm but all homeruns to panelboard more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.
- 5. All wires of 14mm and larger in size shall be connected to panels and apparatus by means of approved type lugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
- 6 All joints, taps and aptices on wires targer than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
- 7. No aplices or joints shall be permitted in either feeder or branch conductors except within outlet boxes or accessible junction boxes or pull boxes. All joints in branch circuit winning shall be made mechanically and electrically secured by approved splicing devices and taped with rubber arid PVC tapes in a manner which will make their insulation as that of the conductor.
- 8. All wall switches and receptacles shall be fitted with standard Bakelite face plete covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or smillar devices. Plaster filling shall not be permitted. Plates installed in well locations shall be gasketed.
- When more than one switch or device is indicated in a single location, gang plate shall be used.

# C. POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS

- This item shall consist of the furnishing and installation of the power load center unit substation or low voltage switchgear and distribution panelboards at the location shown or the approved Plans complete with transformer, or cust breakers, cabinets and all accessories, completely wired and ready for service.
- 2 All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
- Power Load Center Unit Substation. The Contractor shall furnish and install an indoortype Power Load Center Unit Substation at the location shown on the approved Plans if required, it shall be totally metal-enclosed, dead front and shall consist of the following coordinated component parts.
  - a. High Voltage Primary Section. High voltage primary incoming line section consisting of the following parts and related accessories:
    - i. One (1) Air-filled Interrupter Switch, 2-position (open-close) installed in a suitable air filled metal enclosure and shall have sufficient interrupting capacity to carry the electrical load. It shall be provided with key interlock with the cubicle for the power fuses to prevent access to the fuses unless the switch is open.
    - Three (3)-power fuses mounted ≈ separate compartments within the switch housing and accessible by a hinged door
    - One 1) set of high voltage potheads or 3-conductor cables or three singleconductor cables.
    - iv Lightning arresters shall be installed at the high voltage cubicle if required.
    - Items (i) and (ii) above could be substituted with a power circuit breaker with the correct rating and capacity.
  - b. Transformer Section. The transformer section shall consist of a power transformer with ratings and capacities as shown on the plane. It shall be all liquid-filled nonflammable type and designed in accordance with the latest applicable standards.

The transformer shall be provided with four (4) approximately 2 1/2 % rated KVA taps on the primary winding in most cases one (1) above and three (3) below rated primary voltage and shall be changed by means of externally gaing-operated manual tap changer only when the transformer is de-energized. Tap changing under load is acceptable if transformer has been so designed.

The following accessories shall be provided with the transformer, namely drein valve, sampling device, filling connection, oil liquid level gauge, ground pad, top filter press connection, fifting lugs, degrammatic nameptate, relief valve thermometer and other necessary related accessories.

The high-voltage and low-voltage bushings and transition flange shall be properly coordinated for field connection to the incoming line section and low voltage switchboard section, respectively.

- c. Low Voltage Switchboard Section. The low-voltage switchboard shall be standard modular-unitized units, metal-built, deed front, safety type construction and shall consist of the following:
  - i. Switchboard Housing The housing shall be heavy gauge steel sheet dead front type, gray enamel finish complete with frame supports, steel bracings, steel sheet panelboards, removable rear plates, copper busbars, and all other necessary excessories to insure sufficient mechanical strength and safety. It shall be provided with grounding botts and clamps.
  - ii. Secondary Metering Section. The secondary matering section shall consist of one (1) ammeter, AC, indicating type; one (1) voltmeter, AC, indicating type, one (1) ammater transfer switch for 3-phase; one (1) voltmeter transfer switch for 3-phase, and current transformers of suitable rating and capacity.

The above-mentioned instruments shall be installed in one compartment above the main breaker and shall be complete with all necessary accessones completely wired, ready for use

in. Main Circuit Breaker. The main circuit breaker shall be draw-out type, manually or electrically operated as required with ratings and capacity as shown on the approved Plans.

The main breaker shall include insulated control switch if electroally operated, manual trip button, magnetic tripping devices, adjustable time overcurrent protection and instantaneous short circuit trip and all necessary accessories to insure safe and efficient operation.

iv. Feeder Circuit Breakers. There shall be as meny feeder breakers as are shown on the single line diagram or schematic riser diagram and schedule of loads and computations on the plans. The circuit breakers shall be drawout or molded case as required. The circuit breakers shall each have sufficient interrupting capacity and shall be manually operated complete with the devices and all necessary accessories to insure safe and efficient operation. The number, ratings, capacities of the feeder branch circuit breakers shall be as shown on the approved Plans.

Circuit breakers shall each he of the indicating type, providing 'ON' - "OFF and "TRIP" positions of the operating handles and shall each be provided with nameplate for branch circuit designation. The circuit breaker shall be so designed that an overload or short on one pole automatically causes all poles to open

d (,ow Voltage Switchgear [For projects requiring low-voltage switchgear only). The Contractor shall furnish and install a low-voltage switchgear at the tocation shown on the plans. It shall be natal-clad, dead front, free standing, safety type construction and shall have copper busbars of sufficient size, breezed to resist allowable root mean square (RMS) symmetrical short excuit stresses, and all necessary accessories. The low-voltage switchgear shall consist of the switchgear housing, secondary metering, main breaker and feeder branch circuit.

 Grounding System. All non-current carrying metallic parts like conduits, cabinets and equipment frames shall be properly grounded in accordance with the Philippine Electrical Code, tatest edition

The size of the ground rods and ground wires shall be as shown on the approved. Plans. The ground resistance shall not be more than 5 ohms.

f. Panelboards and Cabinets. Panelboards shall conform to the schedule of panelboards as shown on the approved Plans with respect to supply characteristics, rating of main rugs or main circuit breaker, number and ratings and capacities of branch circuit breakers.

Panelboards shall consist of a factory completed: dead front assembly mounted in an enclosing flush type cabinet consisting of code gauge galvanized sheet steel box with trim and door. Each door shall be provided with catch lock and two (2) keys. Panelboards shall be provided with directories and shall be printed to indicate load served by each crount.

Panelboard cabinets and trims shall be suitable for the type of mounting shown on the approved Plans. The inside and outside of panelboard cabinets and trims shall be factory painted with one rust-proofing primer coat and two finish shop coats of pearl gray enamel paint.

Main and branch circuit breakers for panelboards shall have the rating, capacity and number of poles as shown on the approved Plans. Breakers shall be thermal magnetic type. Multiple breaker shall be of the common trip type having a single operating handle. For 50-ampere breaker or less, it may consist of single-pole breaker permanently assembled at the factory into a multi-pole unit

 The Contractor shall install the Power Load Center Unit Substation or Low-Voltage Switchgear and Panelboards at the locations shown on the approved Plans.

Standard panels and cabinets shall be used and assembled on the job. All panels shall be of deed front construction furnished with trims for flush or surface mounting as required.

- D. Comply with the current applicable codes, ordinances, and requirements of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- El Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- F. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- G Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmantike manner by competent workman.
- H. When the tests and inspections have been completed, a label shall be attached to all devices tested. The tabel shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

### I. PANELBOARDS

- Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vitxelion and Seismic controls for Electrical Systems" respectively.
- Enclosures: Flush, Surfece, Flush- and surface-mounted cabinets.
  - Reted for environmental conditions at installed location.
    - Indoor Dry and Clean Locations: NEMA, Type 1.
    - Outdoor Locations: NEMA, Type 3R.

- iii. Kitchen and Wash-Down Areas: MEMA, Type 4X, stainless steet
- Indoor Locations Subject to Dust. Falling Oirt, and Oripping Noncorrosive Liquids: NEMA, Type 12.
- Quidoor Locations Subject to Bust. Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 5R.
- b Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions, for flush-mounted fronts, overlap box.
- Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover
- d. Skirt for Surface-Mounted Panetboards: Same gauge and finish as panetboard front with flanges for attachment to panetboard, well, and calling or floor.
- Gutter Extension and Serrier: Same gage and finish as panelboard enclosure.
   integral with enclosure body. Arrange to isolate individual panel sections.

### f. Finishes:

- i. Panels and Trim: Steel and gatvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coet, baked-on finish consisting of prime coat and thermosetting topcost.
- ii. Back Boxes: Gelvanized steel Same fmish as panels and trim.
- Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- g Directory Cerd Inside panelboard door, mounted in transparent cerd holder metal frame with transparent protective cover.
- Incoming Mains Location: Top or Bottom.
- 4. Phase, Neutral, and Ground Buses:
  - Material: Hard-drawn copper, 98 percent conductivity.
  - Equipment Ground Bus: Adequate for feeder and branch-direvit equipment grounding conductors; bonded to box.
  - c. Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

# MECH. MECHANICAL WORKS

# A. Air Conditioning and Refrigeration System

- This item shall consist of furnishing and installation of air conditioning, refrigeration and ventilation systems, inclusive of necessary electrical connections, ductworks, grilles, pipes, and condensate drains and all other necessary accessories ready for service in accordance with the Plans and Specifications
- The types, sizes, capacities, quantities and power characteristics of the compressor, evaporator condenser, chilled water pump and condenser water pump shall be specified or as shown on the Plans
- 3. The air conditioning system shall be entirely automatic in operation and shall not require the presence of an attendent except for periodic inspection for lubrication. All equipment and materials shall be inspected upon delivery and shall be tested after installation. Piping shall not be buried, concealed or maulated until it has been inspected, tested and approved. Walls, floors and other parts of the structure and equipment damaged by the Contractor in the prosecution of the work shall be replaced as shown on the Plans.

JONAS R. SARIO

Planning and Programming Division

JOCELYN A MAONG Planning and Programming Division

# Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

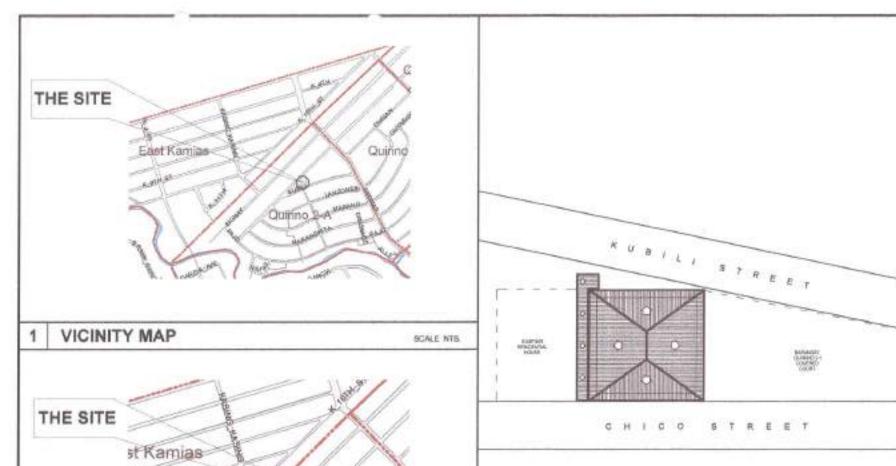


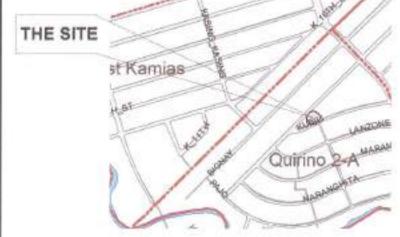
TABLE OF CONTENTS ARCHITECTURAL ART VENTYWE LOCATION PLAN SITE DEVELOPMENT ALAN EXSTING OPPOUND PLOOPS EXSTING BELOND FLOOR AR-S EXISTING ROOF PLAN PROPOSED GROUND FLOOR PROPOSED SECOND FLOOR AFI-5 PROPOSED ROOF PLAN FRONT ELEWHON. WHIRE BOYALEDE DOOR HANGING CASINET DETAIL STRUCTURAL GENERAL NOTES SIT-1 COULUMN AND FOOTING DETAIL BOJEDULE OF BLAS SCHEDULE OF BEAM BT-IF WALL FOOTING DETAIL TYPICAL STAIR DETAIL ST- FOLMDATION PLAN FRANCING PLAN PLUMBING FUT GENERAL NOTES LEGEND AND SYMBOLS PLUMBING LAYOUT ELECTRICAL Rut DENETVL NOTES LEGENO AND SYMBOLS MISCELLANDOUS DETALS PL-2 SINGLE LINE DIABRAM SACEHOR OAGS fil-8 | LIGHTING LAYOUT BUT FOWER LAYOUT MECHANICAL MC-1 GENERAL NOTES LEDENO AND SYMBOLS

SCHEDULE OF COUPRIENT

AR DONOTTONING UNIT LAYOUT



NEGWOONS



2 LOCATION MAP

SCALE NTS.

# SITE DEVELOPMENT PLAN

SCALE NTS.

Republika ng Përpinat Lungsod ng Queron CETY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A ✓

LOCATION BY A DISTRICT IS, CLESCON-CRY ...

SECURITIONS.

DATE: 11.159

DENNE DE ME

ENGR. LEG S. DEL POZICARIO
PLAC. PLANNING A POZICAMANNO DIVIDIO

ENGRIUS MARIER, VERZOSA, JR.

WORREST OWNERS APPROVING

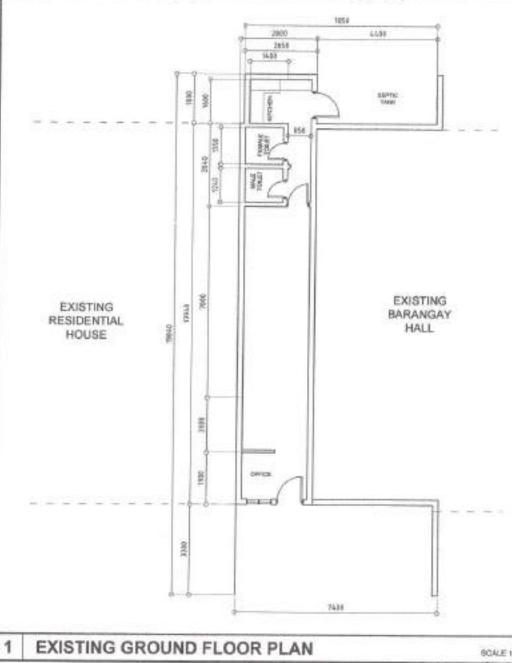
MICH LGO SITE

HON, MA, JOSEFINA G. BELMONTE

AR-01

AHEEF NO.

DANTING TRIBER



3980 **EXISTING** RESIDENTIAL HOUSE

SCALE 1:100M.

EXISTING SECOND FLOOR PLAN

WEST PROPERTY.

Republika ng Pilipinas Lungsoding Quezon CITY ENGINEERING DEPARTMENT

MONCTERIA PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A . BROW GORRES PA DISTRICT 3, GARZON CITY

DENNINE DE PRÈS RUBARTTERIN SUILLY STATE cocerch of the WYSTON NO.

ENGR. LEG S. DEL HOSANIC

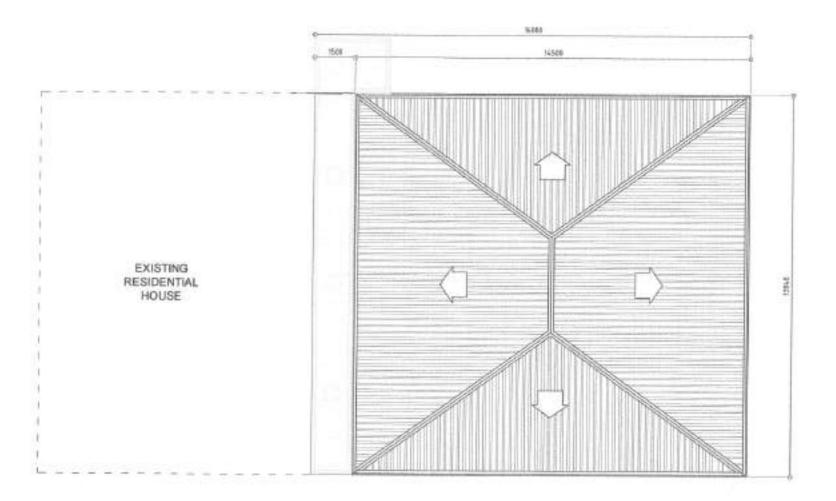
ENGRUBATION R. VERZOSA, JR.

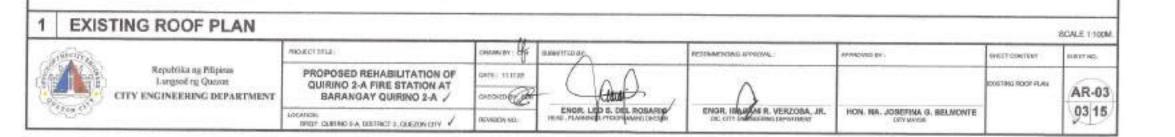
HON, MA. JOSEFINA G. BELMONTH

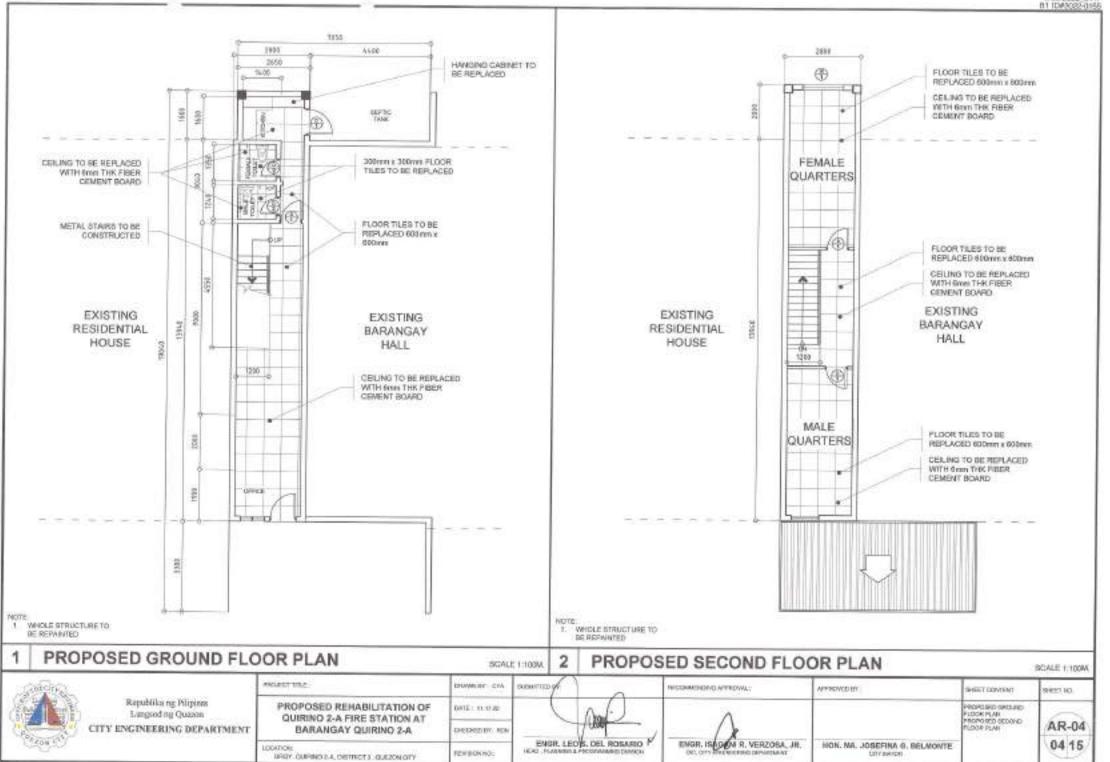
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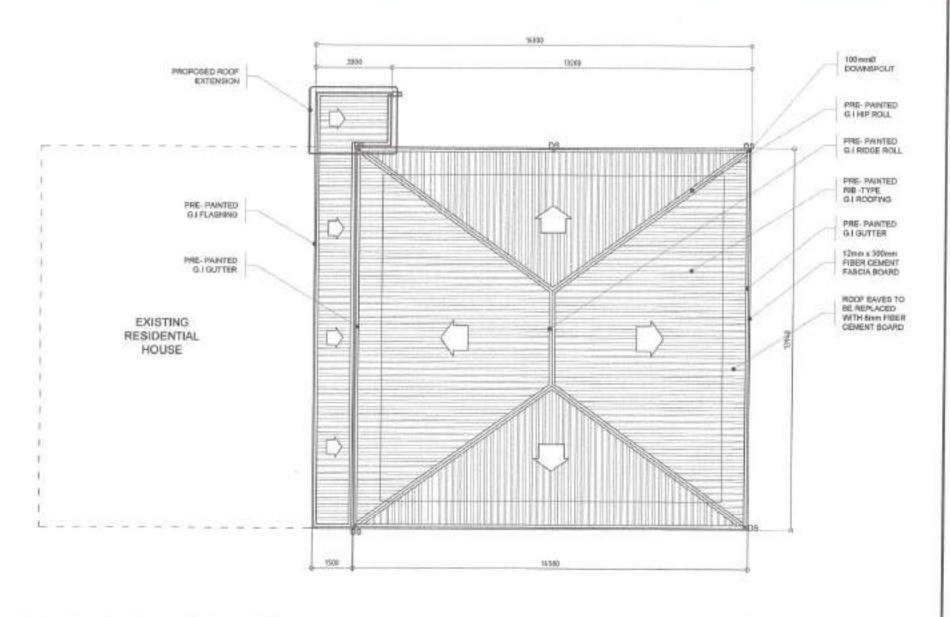
FLESTING UNDUND FLOOR FLAN ENSTING SECOND FLOOR PLAN AR-02

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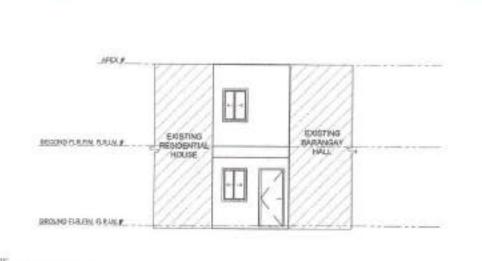








1 PRO	POSED ROOF PLAN			es v					SCALE 1 100M
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	Republika ng Filipinas Langsod ng Quazon CTTY ENGINEERING DEPARTMENT	PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A V	040000W	2	- CADA	Λ		PROFESSIO RISOF PLAY	AR-05
Sun		LOCATION: SHOY, GUITINO & A. DISTRICT S. GUIZIGN COTT.	PEYERONICS		ENBR. LEO S. DEL ROSANDO	ENGIR, BAGANI R, VERZOSA, JR.	HON, MA, JOSEPINA O, BELMONTE CETANOSE		05 15

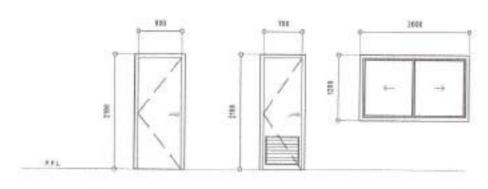


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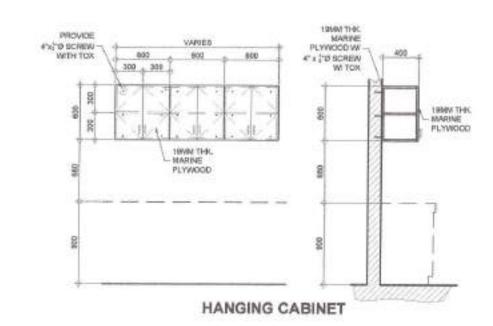
WHOLE STRUCTURE TO

BE REPAINTED

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LOCKTON	040000 Pt/00E	CR.	FORMLE QUARTERS



# SCHEDULE OF DOORS

SCALE 1:50M.

# HANGING CABINET DETAILS

BCALE 1:00M.

Republika ng Pilipina Langsoll ng Quecus CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A CHECKEL IN THE COLUMN CO

ENGR. LEG S. DEL ROSANICA

ENGR. ISHOLANI R. VERZOSA, JR.

HON, MA, JOSEFINA G. BELHONTE CITYMACK

APPENED BY

PROVESTANTON SCHEDULE OF DOORS HANGING GASHET DETAILS

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AR-06 06 15

#### GENERAL NOTES

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#### 12. STRUCTURAL STEEL, AND PLATES

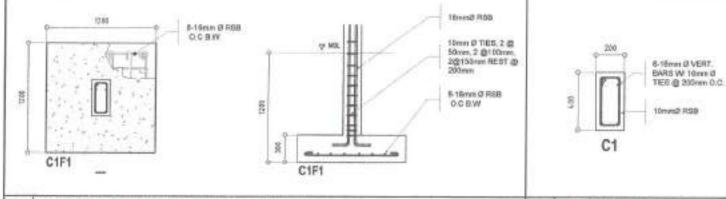
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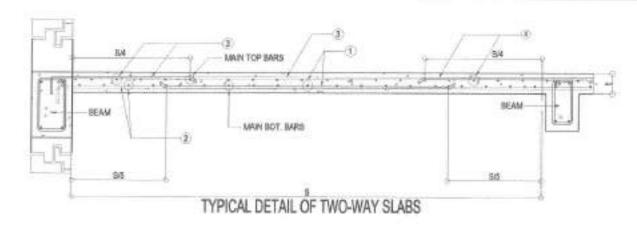
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# COLUMN AND FOOTING DETAILS

COLUMN DET.



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# **GENERAL NOTES**

SCALE NYS.

# SCHEDULE OF SLAB

SCALE NESS.



Republika ng Pilipinas Lungsod ng Quayen

CITY ENGINEERING DEPARTMENT

SULM SCHOOL PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT

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BARANGAY QUIRING 2-A

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EWOR. LEG S. DEL ROSARIO

ENDR. SASAMI R. VERZOSA, JR.

HCSMMENSAU APPROVAL

HON, MA, JOSEFINA G. BELVONTE

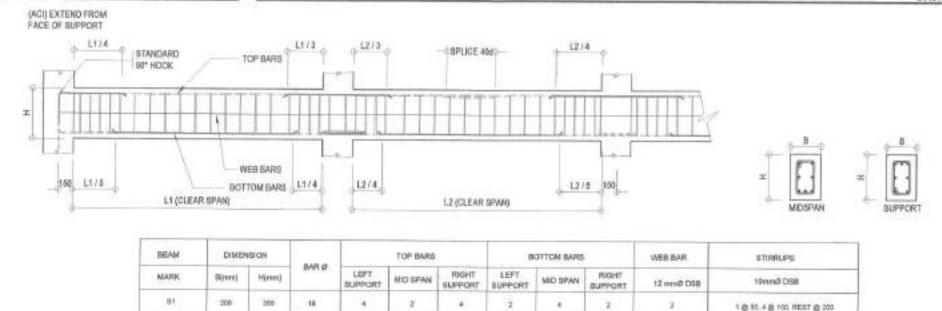
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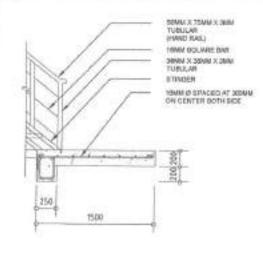
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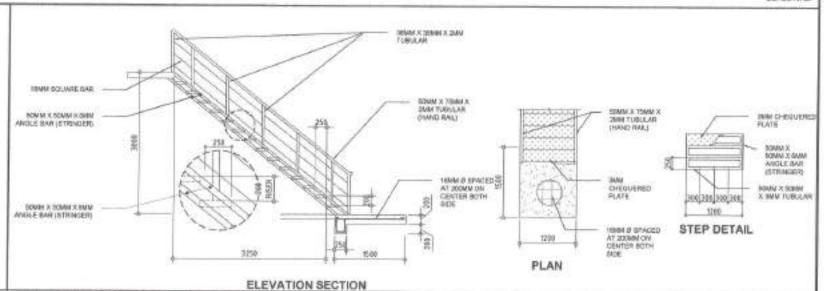
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# SCHEDULE OF BEAM

BOALE NTS.





# STAIR FOOTING DETAIL

# TYPICAL STAIR DETAIL

SCALE NTS.

Republika ng Pilipinas Lungsoding Quexus CITY ENGINEERING DEPARTMENT

MAKOPE	A ANTE-
	ROPOSED REHABILITATION ( QUIRINO 2-A FIRE STATION A BARANGAY QUIRINO 2-A
LOCKER	S.

	III Committee Transfer Committee Com		
KOAST WAS:	CLAMPINA CAT	SUBMITTY	
PROPOSED REHABILITATION OF	GWW; 11.1709	-	
QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A	OPERATOR ROW		
COTICNE BIGGY, QUARMO S-A, DISCRICE S, QUEZON DEV	AEVARON NO.	ENG. PL	

smerger	10
	Com
ENGR. LE	DO S. DEL ROSARIN

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ENG	R. BANKIN H. VERZOSA, JR.

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HON, MA. JOSEFINA G. BELMONTE	

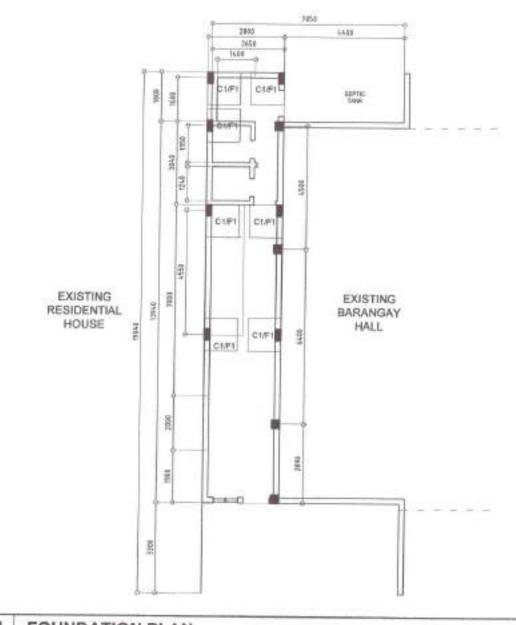
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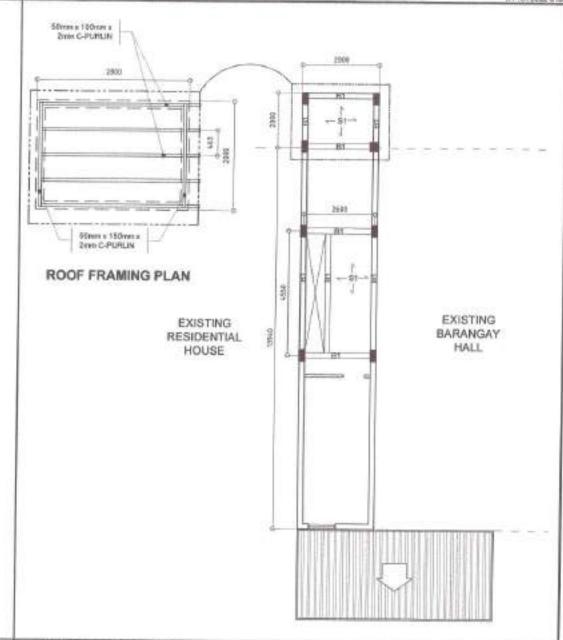
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**FOUNDATION PLAN** 

SCALE 1:100M.

FRAMING PLAN

SCALE 1:TOOM

BHEST NO.

Republika ng Pilipinas Lungsod ng Queson CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF DATE STATE OF DATE OF

ENGR. LEG S. DEL ROSANGO

ENGR. ISAGANI R, VERZOGA, JR.

RECOGNISHED APPROVAL

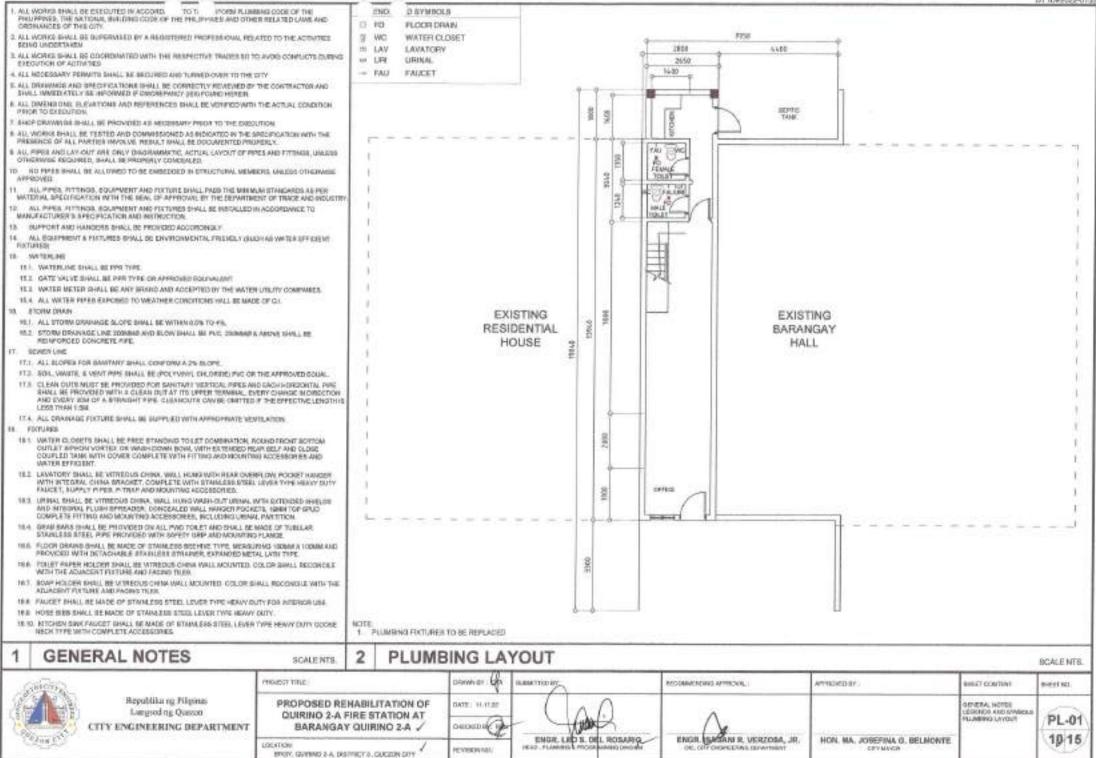
HON, MA. JOSEFFINA G. BELLHONTE

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POUROATION PLAN

SHEET DOM/THE

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### GENERAL NOTES FOR SINGLE-PHASE SYSTEM

- 1. ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, PHILIPPINE ELECTRONICS CODE, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES. OF THIS CITY.
- 2. ALL WORKS SHALL BE SUPERVISED BY A REGISTERE PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN.
- 3. ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRACES SO TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES.
- 4. ALL NECESSARY PERMITS SHALL BE SECURED AND TURNED OVER TO THE CITY.
- It. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CONRECTLY REVIEWED BY THE CONTRACTOR AND SHALL IMMEDIATELY BE INFORMED IF DISCREPANCY (ES) FOUND HERRIN.
- 8. ALL DIMENSIONS, SUSVATIONS AND REFERENCES, SHALL BE VERPLED WITH THE ACTUAL CONDITION PRIOR TO EXECUTION.
- 7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- # ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATIONS WITH THE PRESENCE OF ALL PARTIES INVOLVE/ REBULTS SHALL BE DOCUMENTED PROPERLY.
- 9. ALL PIPES AND LAYOUT ARE ONLY DIAGRAMMATIC, ACTUAL LAYOUT OF PIPES AND FITTINGS, UNLESS OTHERWISE REQUIRED, SHALL BE PROPERLY CONCEALED.
- 10. NO FIPES SHALL BE ALLOWED TO BE EMBEDOED IN STRUCTURAL MEMBERS. UNLESS OTHERWISE APPROVED.
- 11. ALL PIPES, FITTINGS, EQUIPMENT AND FIXTURES SHALL SE INSTALLLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- 12. SUPPORTS AND HANGERS BHALL BE PROVIDED ACCORDINGLY.
- 13. ALL EQUIPMENTS AND PORTURES SHALL BE ENVIRONMENTAL PRIENDLY.
- 14. INSTALLATION OF SERVICE ENTRANCE.
  - 14.1. THE TYPE OF SERVICE ENTRUMOS SHALL BE SINGLE PHASE, TWO WIRE ILLIS. GROUND, 60 HERYZ, 230V AC NOWINGS.
  - 14.2. THE SERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
  - 14.3. THE BUIN OVERCURRENT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC MICCE IN NEMA 3R WEATHERPROOF ENGLOSURE
- 15. INSTALLATION OF LIGHTING AND POWER SYSTEM

15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL SE 3.5 SQ. MM. THEN THAN COPPER WIRE UNLESS OTHERWISE NOTED, MINIMUM SIZE OF WIRE SHALL BE 1.5 SO, MM, COPPER WIFE, ALL WIRES AND CABLES SHALL BE COLOR. CODED AS FOLLOWS:

DINE 1

RED LINE 2 - BLACK

NEUTRAL WHITE GROUND GREEN

- 1.1. ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILIWETERS AND/OR CONDUIT HANSER SUPPORTS EVERY 1500 MILIWETERS.
- 1.2. COMPUTE IN NO CASE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE BY LISING HYDRAULIC BENDERS. MINIMUM BENDING RUDIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- 1.3. ALL POWER DUTLETS AND SWITCHES SHALL SE GROUNDING TYPE WITH PARALLEL SLOTS FOR 210 V
- 1.4. PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GPCI" ON THE PLAN.
- 1.6. ALL METALLIC CONDUITS, SWITCHES, LIGHTING FIXTURES, PANELBOARDS. EQUIPMENTS AND NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED AND BONDED.

15.5 ALL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES SHALL BE AS **FOLLOWS** 

A. LIGHTING SWITCH

- 1400 MM ABOVE FLOOR FIRSTH - 300 MM ABOVE FLOOR FINISH

B. CONVENIENCE OUTLET

150MM ABOVE WORKING COUNTER.

D. EXTUGHT

C. PANELBOARD AND CABINETS - 1400 MM ABOVE FLOOR FINISH - 150 MM TOP OF DOOR JAVIB

E. EMERGENCY LIGHT

- 2000 ABOVE FLOOR EMERGENCY

15.1. PULL BOXES SHALL BE WHENEVER NECESSARYTO FACILITATE WIRE PULLING. EVEN IF THESE ARE NOT INDICATED ON FLANS.

15.2 FOR EACH SPARE BRANCH SKROUT IN PANELBOARD, PROVIDE ONE 20080 DIAMETER SWPTY CONDUIT TERMINATED TO 100MM OCTABONA: BOX ABOVE CISILING, MINIMUM SIZE OF PULLBOX SHALL BE 150MM X150MM X 100MM.

15.3. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH INTERRUPTING CAPACITY AS INDICATED IN THE PLANS. PANELBOARDS SHALL BE DALVANZED SHEET POWDER COATED GACK 16 MINIMUM.

15.4. FEEDER AND BRANCH CIRCUIT CONDUCTORS IN CABLIE TRAYS SHALL BE GROUPED, BONDED AND TAGGED TO INDIGATE CLEARLY THE ELECTRICAL CHARACTERISTICS SUCH AS CIRCUIT NUMBER AND PANEL DESIGNATION.

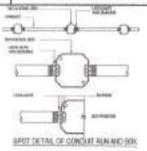
15.5. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EDUPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.

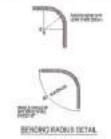
15.6. ALL MATERIALS TO SE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED, IT MUST BE APPROVED. TYPE FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED.

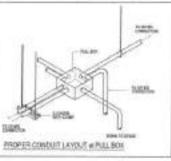
	3 × HW LED, 600-64 X 1200-86, RECEBBED TYPE TREPTER LIGHT, DAYLIGHT
4	10 WATTS LEO BLUE WITH RECEPTACLE
-	TRI-LED TURE WORT IN YATTS
3 100	NV-Risen UP JRD - RISER DOMN
-0	ADJIDUTLET
	TWO-GANG OUTLET
e Shahe	THREE: GANG BWTGH
e0	CNS - GANG SWITCH
e3W5	THREE HALF CHE - GAVO RINTON
SIP	PAHEL BOARD
42.4	HOME RUN CIRCUIT
Dit.	SERVICE ENTRANCE
D	MAIN OFFCUT BEBAREFUEHOLOGED

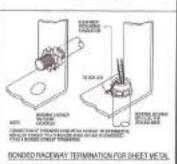
LEGENDS AND SYMBOLS

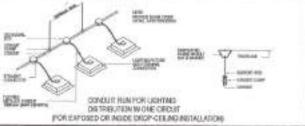
SCALE NTS:











# **GENERAL NOTES**

Republika ng Filipinas Lungsoding Queson

CITY ENGINEERING DEPARTMENT

NUMBER TO BEGIN PROPOSED REHABILITATION OF QUIRING 2-A FIRE STATION AT BARANGAY QUIRINO 2-A

DESCATIONS RRGY, QUIRING S.A., SISTRICT S., QUEZON COTY ✓

DEMAK FOR 19.17.29 CHECKED ON AND REVINENTIAL:

CONTRACTOR IN ENGR. LEO S. DEL ROSARIQUE PRODUNCTURE SHEET MANAGER

SCALE NTS.

APPROXIMENT BY

GRENDS AND STURO. BUALLANDON DELIVED

SHEET DOM/THE

EL-01 11 15

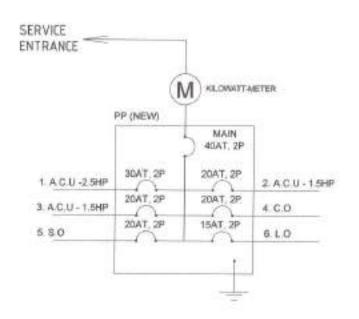
SCALE NTS.

BHEST NO.

ENGR. BASAN R. VERZOSA, JR.

HON, MA. JOSEFINA G. BELMONTE **ISTYMANSE** 

MISCELLANEOUS DETAILS



PP (NEW)

LOCATION: QUIRINO FIRE STATION

MOUNTING: NEMA1, SURFACE MOUNTED WITH GRAY POWDERED COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND BUS

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	SIZE OF			
NO.	CONDUCTORISE HON					WIRES	CONDUIT		
1	ACU - 1, 2.5HP	230	3910	17.0	30	2-5.5mm* THHN COPPER WIRE 1-3.5mm* THM GROUND WIRE	IN 20mm# PVC		
2	ACU - 1, 1,5KP	230	2300	10,0	20	2-5.5mm* THHN COPPER WITE 1-3.5mm* THM GROUND WITE	IN 20mmé PVC		
3	ACU - 1, 1,5HP	230	2300	10.0	20	2-5.5mm* THIN COPPER WIRE 1-3.5mm* THW GROUND WIRE	IN 20mm# PVO		
4	CONVENIENCE OUTLET - B	230	1840	9.26	20	2-3.5mm* THHM COPPER WIRE 1-2.0mm* THW GROUND WIRE	IN 20mm# PVC		
5	SPECIAL OUTLET - 1	230	1000	4.33	20	2-3.5mm² THHN COPPER WRE 1-2.0mm² THW GROUND WRE	IN 20mmil PVD		
6	LIGHTING BUTLET - 8	230	500	2.17	15	2-3.5mm* THHN COPPER WRE 1-2.0mm* THM DROWND WRE	# 20mm# PVC		
			11450	49.7 <u>8</u>					

COMPUTATION:

OVER CURRENT PROTECTION

USE: 70AT, 2P, 230V BOLT-ON IN NEMA 1

ICB= 49.78 + (17.0 X 25%)] X 125%

MAIN FEEDER:

USE: 2 - 14mm2 THHN & 1-8.0mm2 THW GROUND WIRE

IN 25mmØ IMC

ICB= 67.54 AMP

ICB= 54.03 AMP X 1.25

SINGLE LINE DIAGRAM

SCALE: NTS

LOAD SCHEDULE

SCALE: NTS

EL-02

12 15

( And )

Republika ng Pilipinas Lingsod ng Queson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A

HOLATION SERVICE A CONTROL OF THE CONTROL A

DIVERSE OF STREET

ENDR. LED S. DEL ROSARBIÓ

ENGR. ISSONANI R. VERZOBA, JR.

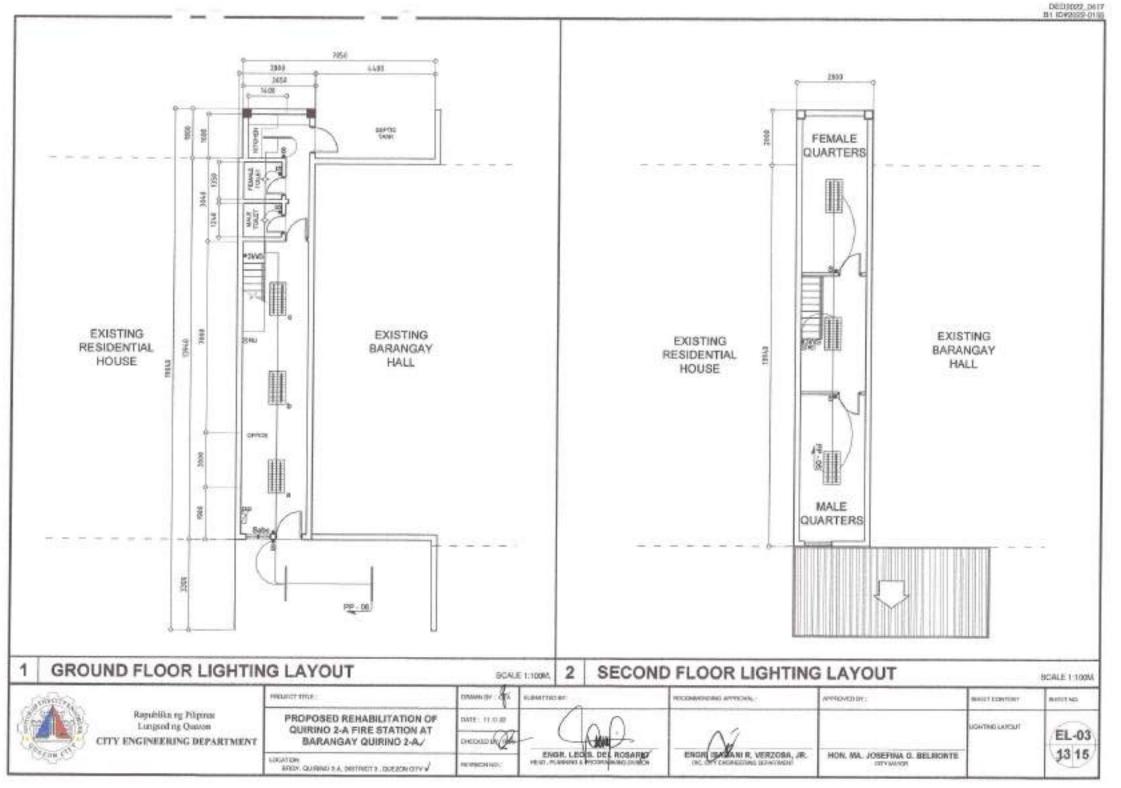
DESCRIPTIONS APPROVAL

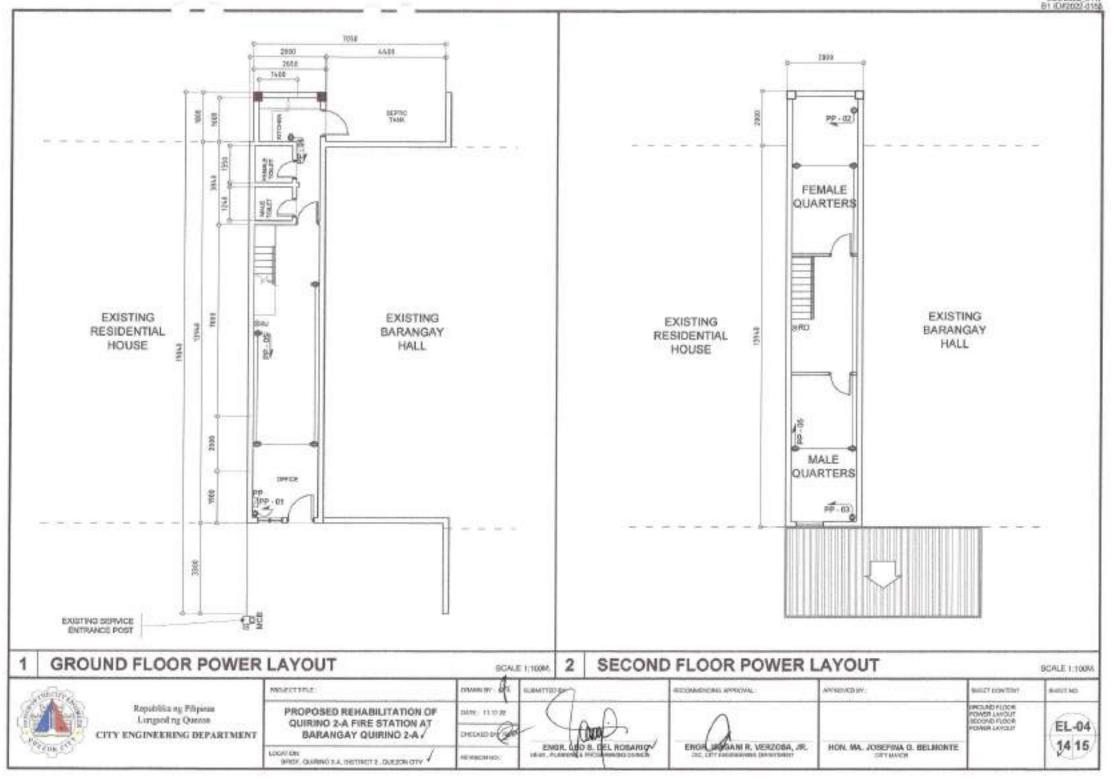
HON, MA, JOSEFINA G, BELMONTE

APPROVABLES.

BINGLE LINE EINSPINA BLORD BOHEDITAL

Displaced Constraint





### MECHANICAL WORKS

- ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE PHILIPPINE. SOCIETY OF MECHANICAL ENGINEERS CODE, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES OF THIS CITY.
- ALL WORKS SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN
- ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRADES.
   IN ORDER TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES.
- ALL NECESSARY PERMITS SHALL BE SECURED AND TURNED OVER TO THE CITY
- ALL DRAWINGS AND SPECIFICATIONS SHALL SE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL IMMEDIATELY BE IMPORWED # DISCREPANCY (IES) FOUND HEREIN.
- ALL DIMENSIONS, ELEVATIONS AND REFERENCES SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO EXECUTION.
- SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATION WITH THE PRESENCE OF ALL PARTIES INVOLVE. RESULT SHALL BE DOCUMENTED PROPERLY.
- AIR CONDITIONED SPACES SHALL BE MAINTAINED AT 24° C DRY BULB.
   AND 50% RELATIVE HUMIDITY.
- ALL FLOOR SLAB-MOUNTED VIBRATING EDUPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS TO PREVENT VIBRATION AND NOISE TRANSMISSION.
- EXHAUST FANS SHALL BE PROVIDED WITH SUITABLE FLEXBLE CONNECTIONS TO DISCHARGE DUCT.
- ALL POWER WRING SHALL BE ELECTRICAL, AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.
- 13. PROVIDE CONTROL WIRING FOR AIR CONDITIONING EQUIPENT.
- 14. PROVIDE THERMOSTAT FOR ALL INDOOR UNITS OR FAN COLLUNITS.
- VERIFY LOCATION OF CONTROLLERS AND SWITCHES ON ELECTRICAL PLANS.
- ALL CONDENSATE WATER DRAIN PIPES BHALL SE CONNECTED TO THE NEAREST FLOOR DRAIN, AREA DRAIN OR CATCH SASIN.
- PROVIDE GUIDES, HANGERS AND SUPPLEMENTAL STEEL SUPPORTE FOR ALL PIPING, DUCTING AND EQUIPMENT.
- 18. PROVIDE PIPE SLEEVES FOR ALL PIPES PASSING THRU BUILDING
- 19. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

# 1 GENERAL NOTES

BCALE NTS.

PROJECT 1852



- EQUIPMENT DESIGNATION



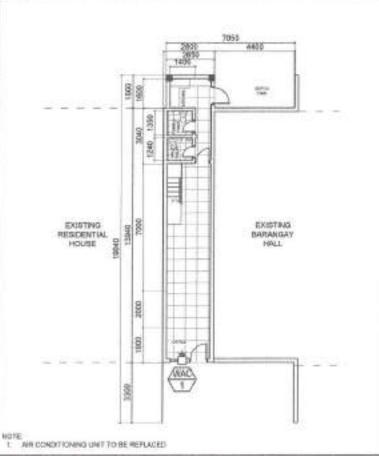
- WINDOW TYPE AIR CONDITIONER

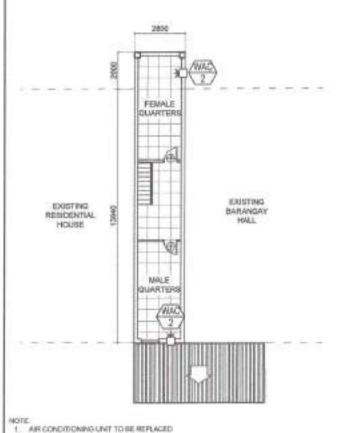
# WINDOW TYPE AIR-CONDITIONER AIR-COOLED CONDENSING UNITS

DESIGNATION LOCATION	YTTRAUD MORE	VILLETTY HP	COOLING POWER IN	POWER INPUT	UT ELECTRICAL SUPPLY			REMARKS	
& Constitution .	LUCATION	disvertiff.	RATING	K-MARI	WATTE	VOLTE	PHASE	HERTZ	, ricanitine
1	AS SHOWN ON PLANS	1167	2116	26,500	3,000	290.0	10	40.1	REMOVABLE INTRAC DRILLE, EAST TO CLEW ANTI-BAC FOLTER W
(BAC)	AS DECEM ON PLANS	2.007	15.90	12,000	1200	2300	520	601	MECHANICAL DINORF

# 3 EQUIPMENT SCHEDULE

HICALE NITE.





# LEGENDS AND SYMBOLS SCALENTS.

4 AIR CONDITIONING UNITS LAYOUT

SCALE 1:150M

AIR CONDITIONING UNITS LAYOUT

APPROVED BY

SCALE 1:150M.

Republika ng Pilipinas Lungtod ng Quaten

Lingsod og Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION AT BARANGAY QUIRINO 2-A /

BROW BURRIO HA DISPRICED DECIDINGTY 4

DATE: 11.17.00 CIFECKIN OF GR

ENGR. LED 8. DEL ROSARDO

ENGRESS GAN R. VERZOGA, JR.

ANDOOR WATERSHOOD

HON, WA. JOSEFINA G. BELMONTE

GENETIN, HOTES LISSEND AND SYMBOLID SCHEDALF OF EQUIPMENT AR CONSTITUTION WIT LAPOUR

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# Section VIII. Bill of Quantities

# **Notes on the Bill of Quantities**

# **Objectives**

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

# **Daywork Schedule**

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

### **Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

# **Signature Box**

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

PROJECT TITLE: PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION

LOCATION: BARANGAY QUIRINO 2-A, DISTRICT 3, QUEZON CITY

PROJECT NO. : 23 - 00029

**DURATION**: Ninety (90) Calendar Days

# **BREAKDOWN OF COST**

ITEM CODE	WORK DESCRIPTION	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
GR	GENERAL REQUIREMENTS	₱	₱	₱	₱
OGR	OTHER GENERAL REQUIREMENTS				
SW	SITE WORKS				
CWS	CIVIL / STRUCTURAL WORKS				
AW	ARCHITECTURAL WORKS				
S/PW	SANITARY / PLUMBING WORKS				
EW	ELECTRICAL WORKS				
MECH	MECHANICAL WORKS				

TOTAL COST P

LUMP SUM BID IN WORDS :	 		
_	 	 	
actor :	 		

Page 3 of 3 Bid Form

# **BILL OF QUANTITIES**

# (Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF QUIRINO 2-A FIRE STATION

**BARANGAY QUIRINO 2-A, DISTRICT 3, QUEZON CITY** LOCATION

PROJECT NO. 23 - 00029

DURATION Ninety (90) Calendar Days

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OPE OF WO	DRKS:
GR	General Requirements include billboard(s).
OGR	Other General Requirements (Non-O.C.M.), but not limited to:
1	Temporary enclosure around the construction area.
2	Temporary water system including water meter/sub-meter and connections.
3	Temporary electrical system including electric meter/sub-meter and connections.
4	Scaffolding for general use (rental).
5	Clearing, hauling and disposal of construction materials and debris.
SW	Site Works:
1	Demolition/removal works.
2	Clearing and cleaning for painting preparation.
3	Earthworks include excavation for structures, backfill and compaction.
CWS	Civil / Structural Works:
1	Earthworks include gravel bedding.
2	Concrete works include concreting, installation of reinforcing steel bars, and formworks.
3	Masonry works include laying of CHB and application of concrete epoxy.
4	Metal works include fabrication of metal structures.
5	Roofing works include installation of roofing and bended materials.
AW	Architectural Works (Finishes as indicated in the plans):
1	Floor finishes include tile works for flooring and other floor finishes.
2	Wall finishes include tile works for walls and other wall finishes.
3	Ceiling works include installation of ceilings with framings.
4	Painting works include painting for exterior and interior walls
5	Fabricated materials include construction of hanging cabinet, countertop, and installation of doors and windows.
S/PW	Sanitary / Plumbing Works:
1	Installation of roughing-ins and supports.
2	Installation of water efficient sanitary/plumbing fixtures and accessories.
EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, energy efficient lighting fixtures, components and accessories.
MECH	Mechanical Works
1	Installation of air-conditioning system includes roughing-ins, equipment and accessories.
0	Others (Included in overhead, contingencies and miscellaneous expenses)
1	Provision of construction health and safety such as safety gears, medicine kit, etc.
_	

Preparation of as-built plans (signed and sealed by the respective professional(s)).

Preparation of shop drawings, as necessary.

Testing and commissioning works shall be performed as per standard procedures.

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ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
GR	GENERAL REQUIREMENTS				
SPL7	Billboard (1.20m x 2.40m in Plywood)	1	piece	₱	₱
			344	TERM COST OF	
				ERIAL COST GR	₱
				ABOR COST GR	
			D	IRECT COST GR	P
OGR	OTHER GENERAL REQUIREMENTS				
OGR02c	Temporary Enclosure Around the Construction Area	14	l.m	₽	₱
OGR0301	Temporary Water Facility	1	unit		
OGR0302	Temporary Electrical Facility	1	unit		
OGR05	Scaffolding (Rental)	26	sq.m		
			Subtotal	OGR02c-OGR05	₽
OGR01	Clearing Hauling and Dianagal of Construction	10	t.l.	₽	Ð
OGRUI	Clearing, Hauling and Disposal of Construction	10	L.I.	Г	Г
				Subtotal OGR01	₽
				Subiolal COINT	1
			MATE	I RIAL COST OGR	<b>a</b>
			-	BOR COST OGR	P
				RECT COST OGR	B
			DIR	ECT COST OGR	P
SW	SITE WORKS				
	Chipping Works for Structural Connection and			_	
DEMV001	Mechanical Works	1	cu.m	₽	₱
DEMV004	Demolition of Existing Structure	10	cu.m		
DEMV005	Removal of Cabinets	1	cu.m		
DEMV007	Removal of Existing Fascia Board and Gutter (Roofing)	62	l.m		
DEMV010	Removal of Existing Door Jamb and Door Including Hardware and Accessories	7	set		
DEMV012	Removal of Urinal	1	set		
DEMV013	Removal of Water Closet	2	set		
DEMV015	Removal of Ceiling Board Including Framing	135	sq.m		
DEMV017	Removal of Existing Concrete Countertop	2	sq.m		
DEMV021	Removal of Existing Floor and Wall Tiles	104	sq.m		
DEMV025a	Removal of Existing Roof Sheet	224	sq.m		
DEMV025b	Removal of Existing Roof Sheet Inlcuding Framing System (Truss)	6	sq.m		
DEMV027	Removal of Existing Window Panel Including Hardware	17	sq.m		
DEMV030	Removal of ACU	2	unit		
SW03	Cleaning and Clearing for Painting Preparation	189	sq.m		
106	Excavation for Structures	15	cu.m		
SW04	Backfill and Compaction	11	cu.m		
			D	IRECT COST SW	₽

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
cws	CIVIL / STRUCTURAL WORKS				
CWSE	Earthworks				
CWSE01	Gravel Bedding	1	cu.m	₽	₱
CWSC	Concrete Works				
CWSCO	On-Site Mix Concrete, 28MPa, 3/4" Gravel at 28 days				
CWSCO05	Wall Footing	1	cu.m		
CWSCO05	Column	4	cu.m		
CWSCO05	Column Footing	4	cu.m		
CWSCO05	Beam	3	cu.m		
CWSCO05	Suspended Slab	2	cu.m		
CWSCO05	Stairs (Footing)	1	cu.m		
CWSRB	Reinforcing Steel Bars				
CWSRB40	Grade 40 Reinforcing Steel Bar Including G.I. Tie Wire # 16				
CWSRB4001	10mm Ø (Column Ties)	133	kg		
CWSRB4001	10mm Ø (Stirrups)	244	kg		
CWSRB4001	10mm Ø (Suspended Slab)	161	kg		
CWSRB 60	Grade 60 Reinforcing Steel Bar Including G.I. Tie Wire # 16				
CWSRB6001	16mm Ø (Column)	373	kg		
CWSRB6001	16mm Ø (Column Footing)	223	kg		
CWSRB6001	16mm Ø (Beam)	339	kg		
CWSRB6001	16mm Ø (Stairs Footing)	61	kg		
CWSF	Formworks and Shoring				
CWSF01	Beam	28	sq.m		
CWSF03	Column	47	sq.m		
CWSF04	Suspended Slab	16	sq.m		
CWSMA	Masonry Works				
CWSMA02	150mm CHB Wall Laying, Including Mortar, Reinforcement and One-Face Plastering	11	sq.m		
CWSMA03	100mm CHB Wall Laying, Including Mortar, Reinforcement and Two-Face Plastering	37	sq.m		
CWSMA04	150mm CHB Wall Laying, Including Mortar, Reinforcement and Two-Face Plastering	41	sq.m		
CWSMA1509	Concrete Epoxy	9	sq.m		
CWSME	Metal Works				
	Metal Stair				
CWSME07	Structural Steel				
CWSME0703	50mm x 50mm x 6mm Angle Bar	95	kg		
CWSME0703	50mm x 50mm x 3mm Angle Bar	101	kg		
CWSME0707	3mm Checkered Plate	104	kg		
CWSME0713	16mm Square Bar	31	kg		
CWSME0714	50mm x 75mm x 2mm Tubular Bar	20	kg		
CWSME0714	38mm x 38mm x 2mm Tubular Bar	13	kg		
	Roof Framing		3		
CWSME07	Structural Steel	<del> </del>			

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSME0708	50mm x 100mm x 2mm C-Purlin	50	kg		
CWSME0708	50mm x 150mm x 2mm C-Purlin	25	kg		
CWSPRW	Roofing Works				
CWSPRW07	Pre-Painted Roofing, Components and Accessories				
CWSPRW0701	Pre Painted Rib Type Long Span Metal Roofing Sheet, 0.45mm Thick GA 26 with Connection Accessories	241	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT UNIT COST		TOTAL COST
CWSPRW0704	Pre Painted G.I. Flashing GA 26 x 0.60m	25	l.m.		
CWSPRW0706	Pre Painted G.I. Gutter, GA 26 x 0.60m	62	l.m.		
CWSPRW0707	Pre-Painted G.I. Ridge Roll, GA 26 x 0.60m	42	l.m.		
CWSPRW08	Fiber Cement Fascia Board				
CWSPRW0801	12mm Thick x 10" Fiber Cement Fascia Board	62	l.m.		
CI/S01	Blind Rivets and Screws				
CI/S0107	Blind Rivet, 1/8" x 1/2"	78	sq.m.		
MC	Miscellaneous and Consumables				
MC/G05	Grinding Disc, 4"	20	piece		
MC/G13	Silicon Sealant	10	tube		
MC/G19	Acetylene Tank (Refill)	2	tank		
MC/G23	Cut-off Blade / Wheel	20	piece		
MC/G27	Drill Bit, 20mm Ø (Metal)	20	piece		
MC/G29	Oxygen Tank (Refill)	4	tank		
MC/G36	Welding Rod (Steel)	14	kg		
MC/G40	G.I. Clamp (For Gutter)	105	piece		
			MATE	RIAL COST CWS	₽
			LA	BOR COST CWS	
			DIR	ECT COST CWS	₽
AW	ARCHITECTURAL WORKS				
AW04	Floor Finishes				
AW0401	300 x 300mm Non-Skid Homogeneous Floor Tiles Including Adhesive and Grout	5	sq.m	₽	₽
AW0404	600 x 600mm Non-Skid Homogeneous Floor Tiles Including Adhesive and Grout	84	sq.m		
AW03	Wall Finishes				
AW0305	300 x 300mm Homogeneous Wall Tiles Including	23	sq.m		
AW02	Ceiling Finishes				
AW0204	6.0mm Thick Fibercement Board Including Metal Framing	145	sq.m		
AWP	Painting Works				
AWP0101	Flat Latex Paint Finish (Interior Wall - 3 Coats)	286	sq.m		
AWP0102	Elastomeric Paint Finish (Exterior Wall - 3 Coats)	139	sq.m		
AWP0105	Flat Latex Paint Finish (Ceiling - 3 Coats)	145	sq.m		
AWP0106	Epoxy Enamel Paint Finish ( Steel Member - 3 Coats)	27	sq.m		
		Material Cost AW02			₱
			Labor Cost AW02-AWF		
			Sub	ototal AW02-AWP	₱
AW01	Fabricated Materials				
AW0112	Hanging Cabinet (Wooden)	2	sq.m.	₱	₱
AW0114	Countertop with Aluminum Cabinet and 600mm x 600mm Homegenous Tiles (Width=600mm)	4	l.m.		
AWD01	Installation of Doors				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AWD010132	D1- (0.80m x 2.1m) Wooden Flush Door with Door Jamb, Hardware and Complete Accessories	4	set		
AWD010160	D2 - (0.70m x 2.1m) PVC Flush Door with Louver, Door Jamb, Hardware and Complete Accessories	2	set		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AWW	Installation of Windows				
AWW03	W1 - (1.20m x 2m) Analok Finish Aluminum Sliding Window with 6mm Thick Tempered Glass	1	set		
			Ma	terial Cost AW01	₽
				abor Cost AW01	F
			_	Subtotal AW01	₽
				Gubtotal 7 (VV 0 1	<u> </u>
			MAT	ERIAL COST AW	₽
			1	ABOR COST AW	
			DI	RECT COST AW	₽
S/PW	SANITARY / PLUMBING WORKS				
S/PW01	Sewer Line / Storm Drainage System				
S/PW0101	Roughing-Ins				
S/PW010104	100mm Ø, PVC Pipe with Hub	8	piece	₱	₽
S/PW010103	75mm Ø, PVC Pipe with Hub	2	piece		
S/PW010102	50mm Ø, PVC Pipe with Hub	7	piece		
S/PW010116	100mm Ø, 1/4 Bend	19	piece		
S/PW010122 S/PW010131	100mm Ø, 1/8 Bend	19	piece		
S/PW010131	100mmØ x 75mmØ Wye	3	piece		
S/PW010130	100mmØ x 50mmØ Wye 75mmØ x 50mmØ Tee	5	piece		
S/PW010104	50mm Ø, 1/4 Bend	10	piece		
S/PW010114	75mm Ø, 1/8 Bend	6	piece		
S/PW010120	50mm Ø, 1/8 Bend	6	piece		
S/PW010111	50mm Ø, P-Trap	2	piece		
S/PW010153	100mm Ø x 75mm Ø, Reducer	2	piece		
S/PW010177	100mm Ø, Coupling	15	piece		
S/PW02	Waterline System		•		
S/PW0201	Roughing-Ins Including Connecting Machine				
S/PW02010201	20mm Ø, PPR Pipe	5	piece		
S/PW02010211	20mm Ø, Tee Equal	7	piece		
S/PW02010274	20mm Ø, End Cap	7	piece		
S/PW02010257	20mm Ø, 90 Deg Elbow	14	piece		
S/PW02010269	25mm Ø x 15mm Ø, Female Thread Tee	7	piece		
S/PW03	Sanitary Fixtures, Fittings and Accessories				
S/PW0303	Bidet with Complete Accessories (Water Efficient)	2	set		
S/PW0601	Floor Drain, 100mm Ø, Stainless	2	piece		
S/PW0303	Hose Bibb Lever Type, Stainless, Heavy Duty (Water Efficient)	2	piece		
S/PW0321	Urinal , Flush Valve with Complete Fittings and Accessories (Water Efficient)	1	set		
S/PW0327	Water Closet, Tank-Type with Complete Fittings and Accessories (Water Efficient)	2	set		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW07	Pipe Hangers and Supports				
S/PW0708	Downspout Brackets	23	lm		
S/PW05	Plumbing Fixtures, Fittings and Accessories				
S/PW0502	Angle Valve, Two-Way Stainless	2	piece		
S/PW0503	Flexible Hose, Stainless	2	piece		
MC	Miscellaneous and Consumables				
MC/G06	Hacksaw Blade	3	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC/G13	All around Sealant	4	tube		
MC/G14	Solvent Cement, 400cc	2	can		
MC/G15	Teflon Tape	10	roll		
MC/G18	Waste Cloth	2	kg		
MC/G26	Drill Bit, 20mm Ø (Concrete)	3	piece		
MC/G27	Drill Bit, 20mm Ø (Metal)	3	piece		
			1		
			MATER	RIAL COST S/PW	₽
			LAE	BOR COST S/PW	
			DIR	ECT COST S/PW	₽
	ELECTRICAL MORKS				
EW	ELECTRICAL WORKS				
EW01	Pipes	0.4		<b>B</b>	B.
EW0101	20mmØ PVC Pipe	84	piece	₽	₽
EW0102	25mmØ IMC Pipe	4	piece		
EW05	Fittings and Accessories		<u> </u>		
EW05001	20mmØ PVC Elbow	8	piece		
EW05010	20mmØ PVC Adaptor	54	piece		
EW05022	20mmØ PVC Locknut and Bushing	27	pair		
EW05155	25mmØ Weatherproof Entrance Cap	1	piece		
EW06	Boxes and Fabricated Pullbox				
EW0601	50mm x 100mm PVC Utility Box	21	piece		
EW0602	100mm x 100mm PVC Junction Box with Cover	6	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102b	3.5mm² THHN Wire	400	l.m.		
EW090103b	5.5mm <sup>2</sup> THHN Wire	100	l.m.		
EW090104b	14.0mm² THHN Wire	20	l.m.		
EW0902	THW Wires				
EW090201a	2.0mm <sup>2</sup> THW Wire	200	l.m.		
EW090202b	3.5mm <sup>2</sup> THW Wire	50	l.m.		
EW090203b	8.0mm <sup>2</sup> THW Wire	10	l.m.		
EW10	Wiring Devices				
EW1002	Outlet with Grounding, Two-Gang	9	piece		
EW1003	Outlet with Grounding, One-Gang, for ACU, Heavy Duty	3	piece		
EW1015	Switch with Plate and Cover, One-Gang	6	piece		
EW1017	Switch with Plate and Cover, Three-Gang	1	piece		
EW1018	Switch with Plate and Cover, Three-Gang	2	piece		
EW11	Lighting Fixtures and Other Devices				
EW11035	600mm x 1200mm, 2 x 18w LED, Troffer Type, with Complete Accessories, Recessed Type	6	set		
EW11036	T5, 18w LED Tube light	3	piece		
EW11096	10W LED Bulb Daylight	2	piece		
EW11112	Keyless Receptacle	2	piece		
EW13	Panelboard				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
ASSY	PP	1	assy		
EW1303	Enclosed Circuit Breaker				
EW130302	20AT, 2P, Bolt-on	2	piece		
EW130304	30AT, 2P, Bolt-on	1	piece		
EW130308	70AT, 2P, Bolt-on	1	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	168	l.m.		
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				
MC/G06	Hacksaw Blade	1	piece		
MC/G07	Masking Tape	3	roll		
MC/G14	Solvent Cement, 400cc	3	can		
MC/G37	GI Tie Wire, Ga. 16	2	kg		
MC/E01	Electrical Tape	10	roll		
MC/E03	Pulling Lubricant	2	can		
MC/E04	Rubber Tape	2	roll		
				ERIAL COST EW	P
				ABOR COST EW	_
			D	RECT COST EW	₱
MECH	MECHANICAL WORKS				
MECH0105	Equipment and Accessories				
MECH010501	Window Type Air Conditioning Unit				
MECH01050104	Window-Type Air Conditioning Unit, 1.50 hp, 13,000 KJ/Hr Cooling Capacity, 1,200 W, 230/1/60	2	piece	₱	₽
MECH01050106	Window-Type Air Conditioning Unit, 2.50 hp, 25,500 KJ/Hr Cooling Capacity, 2,660 W, 230/1/60	1	piece		
		MATI	I FRIAL C	OST MECH0105	₽
				OST MECH0105	
				OST MECH0105	₱
MECH0204	Pipe Hangers and Supports				
MECH020404	Window-Type ACU Steel Bracket	3	unit	₽	P
		MATI	I ERIAL C	OST MECH0204	₽
		L	ABOR C	OST MECH0204	
		DI	RECT C	OST MECH0204	₽
			MATER	IAL COST MECH	₱
			LAB	OR COST MECH	
			DIRE	CT COST MECH	₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST

#### SUMMARY

ITEM CODE		WORK DESCRIPTION & SCOPE OF WORKS			
OGR	OTHER G	ENERAL REQUIREMENTS	₽		
		TOTAL ESTIMATED COST A	₽		
GR SW CWS AW S/PW EW MECH	SITE WOR CIVIL / ST ARCHITE SANITAR ELECTRIC	L REQUIREMENTS RKS RUCTURAL WORKS CTURAL WORKS Y / PLUMBING WORKS CAL WORKS	₽		
NOTE: • Strictly enforce h		TOTAL DIRECT COST B Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit  TOTAL ESTIMATED COST B	₽ # ₽		
protocol relative to applicable DPWH Memorandum.	the latest	TOTAL ESTIMATED COST A TOTAL ESTIMATED COST B TOTAL ESTIMATED COST VAT	P		
		TOTAL APPROVED BUDGET FOR THE CONTRACT	P		

## Section IX. Checklist of Technical and Financial Documents

#### **Notes on the Checklist of Technical and Financial Documents**

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

## **Checklist of Technical and Financial Documents**

#### I. TECHNICAL COMPONENT ENVELOPE

#### Class "A" Documents

Leg	al Do	<u>cuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	and Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
	(c)	and 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
	(e)	Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
Tec	hnica	l Documents
	(f)	Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy); and
	(g)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy); and
	(h)	Philippine Contractors Accreditation Board (PCAB) License;  or  Special DCAB License in case of Joint Ventures:
	(i)	Special PCAB License in case of Joint Ventures; <a href="mailto:and">and</a> registration for the type and cost of the contract to be bid; <a href="mailto:and">and</a> Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	or Original copy of Notarized Bid Securing Declaration; and Project Requirements, which shall include the following:  a. Organizational chart for the contract to be bid;
		b. 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 (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy);
		c. 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

see attached prescribed form required by the QC - BAC for Infrastructure and Consultancy); and Original duly signed Omnibus Sworn Statement (OSS);  $\sqcap$  (k) 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. Additional Technical Requirements: Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement • Affidavit of Undertaking for Key Personnel and Equipment (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy) ■ • Equipment Utilization Schedule Manpower Schedule Construction Schedule and S-Curve □ • PERT-CMP ☐ • Construction Methods Financial Documents (1) 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; and The prospective bidder's computation of Net Financial Contracting Capacity П (m) (NFCC) (please see attached prescribed form required by the QC – BAC for *Infrastructure and Consultancy*). Class "B" Documents If applicable, duly signed joint venture agreement (JVA) in accordance with  $\square$  (n) 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 (o) Original of duly signed and accomplished Financial Bid Form; and Other documentary requirements under RA No. 9184 Original of duly signed Bid Prices in the Bill of Quantities; and П (p) (q) Duly accomplished Detailed Estimates Form, including a summary shee

lessor/vendor for the duration of the project, as the case may be (please

rentals used in coming up with the Bid; and

Cash Flow by Quarter.

indicating the unit prices of construction materials, labor rates, and equipmen

(r)

### Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM	
Date : Project Identification No. :	

To: [name and address of Procuring Entity]

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];
- b. We offer to execute the Works for this Contract in accordance with the PBDs:
- 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 a 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 is 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 the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- 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;
- 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
- We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

currently based on GPPB Resolution No. 09-2020

- 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].
- 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:	
Legal Capacity:	
Signature:	
Duly authorized to sign the Bid for and behalf of:	
Date:	

#### Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)	
CITY OF	) S.S.

#### BID SECURING DECLARATION Project Identification No.: [Insert number]

To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
  - Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - 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
  - I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract,

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE] [Insert signatory's legal capacity] Affiant

[Jurat]

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

#### **Omnibus Sworn Statement (Revised)**

[shall be submitted with the Bid]

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

#### **AFFIDAVIT**

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

#### 1. [Select one, delete the other:]

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

#### 2. [Select one, delete the other:]

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

#### 6. [Select one, delete the rest:]

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.
- 11. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

N 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]

#### Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

#### CONTRACT AGREEMENT

THIS AGREEMENT, made this [insert date] day of [insert month], [insert year] between [name and address of PROCURING ENTITY] (hereinafter called the "Entity") and [name and address of Contractor] (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute [name and identification number of contract] (hereinafter called "the Works") and the Entity has accepted the Bid for [contract price in words and figures in specified currency] by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

#### NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - a. Philippine Bidding Documents (PBDs);
    - Drawings/Plans:
    - ii. Specifications;
    - iii. Bill of Quantities:
    - iv. General and Special Conditions of Contract;
    - v. Supplemental or Bid Bulletins, if any;
  - Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. <u>Winning bidder agrees that</u> additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.
- In consideration for the sum of [total contract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.

4. The [Name of the procuring entity] agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature] [Insert Name and Signature]

[Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]

for:

for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

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

NAME OF CONTRACTOR:	
---------------------	--

PROJECT TITLE	227.01	**********	100000000000000000000000000000000000000		CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR,	TOTAL	DATE OF	CONTRACT	PERCENTAGE		
(Name of the Contract) B. EXACT PROJECT LOCATION	DATE OF CONTRACT	DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	INTEREST IN A 1/2 and PERCENTAGE OF PARTICIPATION	CONTRACT VALUE AT AWARD	COMPLETION of ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDIN WORKS (IN PHP)
									TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page of

## NAME OF CONTRACTOR: PROJECT TITLE: \_\_\_\_\_ ROLE OF BIDDER IN THE MAJOR SCOPE OF WORKS & DATE CONTRACT PRICE CONTRACT SOLE NAME AND ADDRESS DATE OF SCHEDULED PROJECT TITLE & EXACT LOCATION STARTED OF PROJECT OWNER (PHP) AS AWARDED CONTRACTOR / SUB-COMPLETION CONTRACTOR/PARTNER IN A TOTAL AMOUNT

OF CONTRACT (Php)

LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page\_\_\_of\_\_\_

# NAME OF CONTRACTOR: PROJECT TITLE:

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE SOLE CONTRACTOR, SURCONTRACTOR, PARTHNER IN A JVI and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION OF ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

	4	
Page	4.04	
- W. B. W.		

#### LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:		
DDOISCT TITLE		
PROJECT TITLE:		

ТҮРЕ	DESCRIPTION / CAPACITY	SERIAL NO.	YEAR ACQUIRED	PRESENT LOCATION (SPECIFIC ADDRESS)	STATUS OF AVAILABILITY (OWNED/LEASED)

Page		
1 age	OI.	

#### A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT

NAME OF CONTRACTOR:			
PROJECT TITLE:			

NAME	POSITION	AGE	EDUCATIONAL ATTAINMENT	TYPE OF CONSTRUCTION EXPERIENCE	NO.OF YEARS WITH THE CONTRACTOR	PROFESSION	PRC NO.

Page	of	
F HELD	474	

## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:				
	CURRENT ASSETS*		PHP	
	(LESS) CURRENT LIABILITIES*	(LESS)	PHP	
	NETWORTH		PHP	
	NETWORTH x 15	x 15	PHP	
	(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	PHP	
	(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	PHP	
	NET FINANCIAL CONTRACTING CAPACITY		РНР	

NOTES:

- CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.
- \*\* BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

			)	S. S.					
			AFFI	DAVIT OF	UNDI	ERTA	KING		
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REPR	ESENTA'	TIVE)					301.1140.01486	100000000000000000000000000000000000000	
with c	office add	ress at							after
having	g been du	ly sworn	to in accord	ance with law	, hereby	y volum	atary depose an	d state:	-
	That 1 a underta	ım duly king ası	authorized i	representative / Secretary's C	of the . Certifica	[Nam	e of Bidder Board Resoluti	to execution.	te this
	That _	IName	of Bidder[	_bidding for	the (Na	me of l	Project)		
	that the	equipm	ent to be use	ntioned Project and the key p project until i	ersonne	d to be	assign shall ex	_hereby undertal clusively be used	ke l and
	That I a with the	m execut	ing this affic	davit to attest technical requir	o the tr	uth of for the	the foregoing a public bidding	nd in compliance g of the said proje	ect.
of	IN WI	INESS 1	HEREOF, I	have hereun	to sign	ned m	y name belov	v this	day
	AFFIAN	IT FURT	HER SAYET	'H NAUGHT.					
							Affiant		
	SUBSCI	RIBED A	ND SWOR	N TO BEFORE	E ME th	is	day of		7
		in							
affiant	exhibiti	ng to	me his/h	er				issued	l at
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Book N	1000								
eries c	f 2020								

Notary Public

