PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED CONSTRUCTION OF SCENIC ELEVATOR AND INTERCONNECTING BRIDGE AT CIVIC CENTER B (PUBLIC WORKS BUILDING) AND CIVIC CENTER A (COMMERCE BUILDING)

Project number: 23-00016

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 AND AWARDS COMMITTEE FOR INFRASTRACTU



BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE & CONSULTANCY

2nd floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

March 29, 2023

Invitation to Bid

No	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Bu	ildings -	- Small B		360-17			26
1	23- 00001	Proposed Repainting of Perimeter Gate and Fence at Sauyo Elementary School	Sauyo	1,010,487.87	30	Department of Engineering	Special Educational Fund
2	23- 00002	Proposed Rehabilitation and Completion of Third Floor Extension Room of QCPSTA Building (Phase 2)	Vasra	1,756,498.10	60	Department of Engineering	Engineering Department
3	23- 00003	Proposed Replacement of Stand Pipe and Installation of Gate along Interior of Anonas Street	Quirino 3- A	1,835,494.59	60	Department of Engineering	Engineering Department - Continuing Appropriation
4	23- 00005	Proposed Rehabilitation of Fire Sub Station	Paligsahan	3,166,287.57	90	Department of Engineering	Engineering Department
5	23- 00006	Proposed Rehabilitation of Tennis Court Roofing	Project 6	3,472,785.25	45	Department of Engineering	Engineering Department
6	23- 00007	Proposed Construction of Multi-Purpose Covered Court at GSIS Village (Phase 2)	Bahay Toro	4,256,102.96	90	Department of Engineering	Engineering Department
7	23- 00008	Proposed Rehabilitation of four (4) Buildings, Façade, Soccer Field sidewalk and Gymnasium at Quezon City Science High School	Sto. Cristo	7,174,246.58	90	Department of Engineering	Special Educational Fund
8	23- 00009	Proposed Rehabilitation of Gabaldon Building and Ground Improvement of Quezon City High School	Sacred Heart	11,298,003.60	120	Department of Engineering	Special Educational Fund
Ви	ildings –	Medium A					
9	23- 00011	Proposed Construction of QCGH STP	Bahay Toro	69,000,406.91	210	Department of Engineering	OCM-20% Community Development Fund
10	23- 00012	Proposed Land Development and Construction of Transition Housing Units (Staging/Temporary Housing) at Pook Marilag	Krus na Ligas	79,453,764.53	360	City Architect	Local Disaster Risk Reduction and Management Fund – Continuing Appropriation

11	23- 00013	Proposed Construction of Housing Units No. 33 (Baesa) Phase 2	Baesa	120,125,711.30	360	City Architect	Housing Community Development Resettlement Department
12	23- 00014	Proposed Construction of Multi-Level Multi-Purpose Building (Baskeball Court and Offices)	Lourdes	140,467,777.02	300	Department of Engineering	OCM-20% Community Development Fund
Bu	ildings -	- Medium B					
13	23- 00015	Proposed Construction of Five (5) storey with Roof Deck Multi-Purpose Hall	Batasan Hills	162,460,181.24	360	Department of Engineering	OCM-20% Community Development Fund
Bri	dge – M	edium A					
14	23- 00016	Proposed Construction of Scenic Elevator and Interconnecting Bridge at Civic Center B (Public Works Building) and Civic Center A (Commerce Building)	Central	62,784,217.24	330	Department of Engineering	Engineering Department
Pai	rks – Sn	nall B		SF			
15	23- 00017	Proposed Fabrication and Installation of Environmental Graphics Design (EGD) Signages along Gora Lane	Various Barangays	1,691,812.40	60	Parks Development & Administration Department	Engineering Department - Continuing Appropriation
16	23- 00018	Proposed Development of Quezon City Nursery at Payatas Controlled Disposal Facility (Pangea)	Payatas	2,007,288.71	60	Parks Development & Administration Department	Engineering Department - Continuing Appropriation
17	23- 00019	Proposed Improvement of GSIS Subdivision Tennis Court	Bahay Toro	2,697,046.74	60	Parks Development & Administration Department	Engineering Department
18	23- 00020	Proposed Fabrication and Installation of Plantbox Barriers along Commonwealth Avenue Bike Lane and Fabrication of Bike Racks on various locations at Commonwealth Avenue	Various Locations	3,991,599.03	120	Parks Development & Administration Department	Engineering Department - Continuing Appropriation
Par	ks – Me	dium A					
19	23- 00021	Proposed Rehabilitation of Existing Toilets and Construction of Additional Toilets at Quezon Memorial Circle (QMC)	Central	74,825,466.17	360	Parks Development & Administration Department	Engineering Department
Roa	ads – Sr	nall B					8000
20	23- 00023	Proposed Rehabilitation of Drainage System and Surface Improvement at Lagro High School	Greater Lagro	7,266,848.06	90	Department of Engineering	OCM-20% Community Development Fund

21	23- 00024	Proposed Rehabilitation of Road and Drainage at Kalamansanay Street	Veterans Village	8,885,056.48	90	Department of Engineering	OCM-20% Community Development Fund
22	23- 00025	Proposed Rehabilitation of Road and Drainage at Barangay Road and Alleys	San Jose	9,911,124.89	180	Department of Engineering	OCM-20% Community Development Fund
23	23- 00026	Proposed Rehabilitation of Road and Drainage at Topside Street, Various Alleys and Portion of Major Dizon Street (Libra Street to Topside Street)	Escopa 2 & Escopa 4	16,420,001.34	180	Department of Engineering	OCM-20% Community Development Fund
24	23- 00027	Proposed Rehabilitation of Road and Drainage at Iceland Street	Fairview	17,867,308.44	90	Department of Engineering	OCM-20% Community Development Fund

- 1. 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.
- 2. 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).
- 3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- 4. Interested bidders may obtain further information from 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.
- 5. 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 non-refundable 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:

Approved Budget for the Contract	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 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The QC-BAC-INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference¹ on April 12, 2023 at 10:00 AM at 2nd 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 26, 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 26, 2023 10:00 AM at 2nd 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.
- 11. For further information, please refer to:

ATTY. DOMINIC B. GARCIA

OIC, Procurement Department 2nd 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: https://quezoncity.gov.ph/public-notices/procurement/

By:

ARCH. NUCILLE H. CHUA, fuap, piep Chairperson, BAC-Infra and Consultancy

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.

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 CONSTRUCTION OF SCENIC ELEVATOR AND INTERCONNECTING BRIDGE AT CIVIC CENTER B (PUBLIC WORKS BUILDING) AND CIVIC CENTER A (COMMERCE BUILDING), with Project Identification Number 23-00016.

[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 Sixty-Two Million Seven Hundred Eighty-Four Thousand Two Hundred Seventeen Pesos and 24/100 Ctvs. (P 62,784,217.24).
- 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

ITD CL			
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:		
	1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)		
	Type		
	Bridge – Medium A		
10.4	The minimum work experience following:	ce requirements for	or key personnel are the
		eneral Experience	Relevant Experience
	1 Project Manager	3 years	3 years
	1 Project Engineer/ Project-in-Charge	3 years	3 years
	1 General Foreman	3 years	3 years
	1 Trade Engineer/Leadman for civil works	3 years	3 years
	Trade Engineer/Leadman for electrical works	3 years	3 years
	1 Trade Engineer/Leadman for mechanical works	3 years	3 years
	1 Safety Officer	3 years	3 years
	1 DPWH duly accredited Materials Engineer	3 years	3 years
	In addition, the bidder must notarized stating that the forego for the project until its completi	ing personnel shall	perform work exclusively
10.5	The minimum major equipment	requirements are the	e following:
	Equipment	Capacity	Number of Units

	Dumptruck 1
	Jackhammer 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:
	The amount of mot less than Disc. 1.255 (04.24 an assistant to the
	a) The amount of not less than Php 1,255,684.34 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
	cheek, bank dran guarantee of frevocable letter of credit, of
	b) The amount of not less than Php 3,139,210.86 or equivalent to five
	percent (5%) of ABC if bid security is in Surety Bond.
19.2	Partial bid is not allowed. 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 330 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
	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.



Republic of the Philippines Quezon City

Office of the City Mayor QUEZON CITY BIDS & AWARDS COMMITTEE (QC-BAC-INFRA)

PROJECT: PROPOSED CONSTRUCTION OF SCENIC ELEVATOR AND

INTERCONNECTING BRIDGE AT CIVIC CENTER B (PUBLIC WORKS

BUILDING) AND CIVIC CENTER A (COMMERCE BUILDING)

LOCATION ; Barangay Central, QC Hall Compound Elliptical Rd., Quezon City 🗸

SUBJECT: GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS

I. GENERAL CONDITIONS

1.0 DEFINITIONS

a. OWNER : LOCAL GOVERNMENT OF QUEZON CITY

b. CONTRACTOR: Any individual, form, corporation, partnership or association that enters into an agreement with the Owner for furnishing the materials and/or labor, tools, equipment, plant and other facilities required for the erection and completion of the project subject to the accompanying plans and working drawings.

c. The Owner/Implementing Agency and the Contractor are treated through the contract documents as if each were of the regular number, masculine gender.

1.1 EXAMINATION OF MEMBER

The Contractor shall carefully examine the premises before submitting any bids to enable him to have full knowledge of conditions existing therein.

1.2 LOCATION

The Proposed Construction of Scenic Elevator and Interconnecting Bridge at Civic Center B (Public Works Building) and Civic Center A (Commerce Building) shall be built along Barangay Central, QC Hall Compound Elliptical Rd., Quezon City, refer to the approved Location Plan.

1.3 EXECUTION, CORRELATION & INTENT OF DOCUMENTS

- a. The Contract Documents are signed in sufficient number of copies by all parties concerned. In case anybody fails to sign copies of any item forming part of the set contract documents, the Implementing Agency's identification thereon shall suffice.
- b. The items, specifications and all other documents forming the contract documents are complementary. Anything shown on plans but not mentioned in the specifications or vice versa or anything not expressly set forth in either, but necessarily implied, shall be furnished or done as if specifically shown and mentioned in both, with no extra charge. Where dimensions are given in figures, follow them in preference to measurement by scale.
- **c.** Execute work as per agreement, making no changes or deviations whatsoever, without prior permission from the Implementing Agency.
- d. The Contractor shall verify and check all dimensions particularly those on the plans. He will be held directly responsible in case of any discrepancy that may be discovered during the progress of work.

1.4 DETAIL DRAWINGS AND INSTRUCTIONS

Plans furnished for use at the jobsite are whenever necessary, supplemented by detail drawings and instructions essential to the proper execution of the work. Such supplementary detail drawings and instructions shall be treated as of equal force as though originally issued.

1.5 PLANS AND PROJECT SITE

Keep at project site, in good order and condition, one (1) set of approved plans, specifications, supplementary detail drawings and instructions.

1.6 SHOP DRAWINGS

Shop drawings shall be provided by the Implementing Agency and/or Contractor during the progress of construction. The contractor should not place any item subject to shop drawings until the Implementing Agency shall have duly approved such drawings.

1.7 CHANGES

The Owner and the Implementing Agency reserve the right to make alterations or additions, including changes during the progress of work. The same shall be carried into effect without in any way deviating from or violating any agreement. Whatever amount shall necessarily be entailed in the cost of labor or materials or both shall be added to or deducted from the original contract price.

1.8 TIME OF COMPLETION AND SCHEDULE OF CONSTRUCTION

The Contractor shall, before actual commencement of the project operations, prepare and submit to the Implementing Agency for verification and approval, a complete and comprehensive work schedule covering the entire duration of construction. He shall also include therein, the estimated number of days within which the entire project shall be completed stage by stage by phase.

1.9 WORKMANSHIP

The project shall be executed with the use of first class workmanship to the full intent and meaning of the plans and specifications and to the complete approval and acceptance by the Implementing Agency.

1.10 MATERIALS

All materials to be used shall be the best of their respective types and kind. They shall be properly stored and protected from damage or injury.

1.11 SAMPLES

Submit samples as specified and proceed with the work with the use of materials procured based on the samples previously approved by the Implementing Agency.

1.12 INSPECTION OF WORK

The Contractor shall provide the facility for inspecting the work to the Implementing Agency, the Owner and other personnel having jurisdiction over the work.

1.13 DEFECTIVE OR IMPROPER WORK

All work or materials not acceptable to the Architect shall be removed immediately and replaced with appropriate work or materials without extra charge. All condemned materials shall be taken away from the premises without delay.

1.14 BUILDING LAWS AND REGULATIONS

The Contractor shall be held responsible for strict compliance with existing labor laws and regulations and shall free the Owner from any responsibility in connection therewith, he shall pay on time at his own expense, all taxes, fees and/or licenses due to the government, both national and local arising from his work on the project.

1.15 MANNER OF PAYMENT

Payments to the Contractor shall be based on the periodic work accomplishments subject to verification, approval and recommendation by the Implementing Agency.

1.16 RETENTION MONEY

Progress payments shall be subject to a ten percent (10%) deduction, referred to as retention money. All retained amounts shall be released upon satisfactory completion of the work and issuance of the Certificate of Final Completion and Acceptance.

1.17 TEMPORARY WATER, POWER AND TELEPHONE FACILITIES

The Contractor shall make the necessary arrangements with the local utility companies so as to provide temporary facilities for the supply of water, power and telephone for the duration of construction, and all expenses in connection therewith shall be borne by the Contractor.

1.18 PRIVY

The Contractor shall provide a temporary privy in a most inconspicuous and sanitary manner, and shall have it removed at the termination of the work.

1.19 CLEARING AND CLEANING

Upon its completion, the project and its premises shall be cleared and cleaned as directed by the Implementing Agency, and make ready for immediate occupancy.

1.20 TEMPORARY BARRICADES, SIGNAL LIGHTS, BILLBOARDS, ETC.

The Contractor shall provide all temporary barricades, signal lights, Architect and Contractor's billboards, the required official building billboard, etc., necessary for the protection of the public and for the proper prosecution of the work and display of construction requirements.

1.21 PERFORMANCE AND GUARANTEE BOND

To guarantee the faithful performance of the Contractor under the contract, he shall post a Performance Bond in the amount of thirty percent (30%) of the contract price in the form of cash, manager's check or surety bond, callable on demand.

1.22 QUESTIONS AND DISAGREEMENTS

All questions and disagreements between the Contractor and the Owner relative to the interpretation of the plans and specifications shall be referred to the Implementing Agency whose decision on the matter shall be final.

II. TECHNICAL SPECIFICATIONS

2.0 SITE WORK

WORK INCLUDED

- 2.0.1 Staking out and establishment of additional wall lines, grades and benchmarks.
- 2.0.2 All excavation works including all necessary shoring, bracing and drainage of storm water from the site.
- 2.0.3 All soil treatment, backfilling, filling, compaction and grading, removal of excess material from site.
- 2.0.4 Protection of property, work and structures, workmen and other people from damage and injury.
- 2.0.5 Soil Poisoning / Termite Proofing.
- 2.0.6 Gravel Bedding and Compaction (Ordinary Gravel).
- 2.0.7 Backfill and compaction
- 2.0.8 Hauling and disposal of excess materials

2.1 LINES, GRADES AND BENCHMARKS

- 2.1.1 Stake out accurately the lines of the building and/or the other structures included in the contract, and establish grades therefore, after which secure approval of the Project Manager before any excavation work is commenced.
- 2.1.2 Erect basic batter boards and basic reference marks at such places where they will not be disturbed during the construction of the foundation.

2.2 EXCAVATION

Structural Excavations: Excavations shall be to the depths indicated in the drawings where bearing value as indicated in the Soils Investigation Report provided as part of the Construction Documents shall be attained. Excavations for footings and foundations carried below required depths shall be filled with lean concrete and bottom of such shall be level. All structural excavations shall extend a sufficient distance from the walls and footings to allow for proper erection and dismantling of forms, for installation pf service and for inspection.

All excavations shall be inspected and approved before pouring any concrete laying underground utility and auxiliary lines for placing select fill materials. The Contractor shall control the grading in the vicinity of all excavated areas to prevent surface drainage running into excavations. Water that accumulates in excavated areas shall be removed by pumping before fill is placed herein.

2.3 SOIL TREATMENT

Treat soil with <u>2% Chlordane or Andrex</u> solution in water to provide an unbroken horizontal and vertical chemical barrier between the proposed structure and the possible termite colonies in the soil after excavation is completed and prior to pouring of concrete foundation and ground floor slabs. At the time the soil treatment is to be applied, the soil shall be in a friable condition with a sufficient low moisture content to allow uniform distribution of the treatment solution throughout the soil.

Do not apply pesticide during or immediately after heavy rains, or whenever climatic conditions are such that runoff will occur to create an environmental hazard. Cover treated areas with polyethylene or waterproof sheeting if concrete is not poured on the same day as the soil treatment. Take adequate precautions to prevent disturbance of the pesticide barrier. Retreat the soil or fill is disturbed after the treatment and before the placement of structural components. Apply pesticide prior to placement of vapor barrier or waterproofing membrane.

2.4 SHORING

Excavation shall be shored and braced by members of suitable sizes where necessary to prevent danger to persons, injurious caving or erosions. Shoring bracing and sheathing shall be removed, as the excavations are backfilled, in a manner such as to prevent injurious caving. The contractor shall keep all excavations free from water while construction is in progress.

2.5 FILLING AND BACKFILLING

After forms have been removed and when concrete work is hard enough to resist pressure resulting from fill, backfilling may then be done. Materials excavated may be used for backfilling. All filling shall be placed in layers not exceeding six (6) inches in thickness, each layer being thoroughly compacted and rammed by wetting, tamping, rolling.

2.6 PLACING AND COMPACTING FILL

- 2.6.1 <u>Common Fill</u>: shall be approved imported/site-excavated material free from roots, stumps and other perishable or objectionable matter.
- 2.6.2 <u>Select Fill</u>: shall be placed where indicated and shall consist of crushed gravel, crushed rock or a combination thereof. The material shall be free from adobe, vegetable matters and shall be thoroughly tamped after lacing.
- 2.6.3 Before placing fill materials, the surface upon which it shall be placed shall be cleared of all brush roots, vegetable matter and debris, and thoroughly wetted to ensure good bonding between grounds.

2.6.4 <u>Compaction</u>: Fills shall be evenly spread in horizontal layers of not more that 200mm in thickness. Each layer shall be wetted and compacted by approved mechanical compaction machine, roller or portable to a density of at least 90% or its maximum density for non-cohesive soils as determined by ASTM Method D-1557 or AASHTO Method T-180.

2.7 FINISH GRADING

The contractor shall fill and grade the whole area to the indicated sub-grade elevations as directed by the Architect or Engineer. The contractor shall verify the finish grade elevations of the proposed pavements. Prior to grading operations, the areas shall be cleared of all heavy growth or vegetation stumps, roots, cables, wires, rocks and other debris. The finished subgrade shall be reasonably smooth and compacted and ready to receive the base course for the proposed pavement.

2.8 DISPOSAL OF EXCESS MATERIALS

Any excess and demolished materials remaining after completion of the earthwork shall be disposed of by hauling and transported out of the premises at the contractor's own expense.

2.9 SUB-GRADE PREPARATION

2.9.1 SCOPE

The sub-grade preparation shall be that part of the work which is the preparation for the support of the bases for pavements and structures. It shall extend to the full width of pavements including shoulders and lay-bys as shown on the drawings or as specified herein. Unless otherwise agreed upon by the Engineer, sub-grade preparation or a section of the road shall not be commenced unless the contractor is able, after the completion and acceptance of the work, to commence immediately pavement construction.

2.9.2 PRODUCTS

All materials and equipment necessary for proper completion of this work shall be subject to the approval of the Engineer.

2.9.3 EXECUTION

- 2.9.3.1 Prior Works: Prior to commencing the preparation of the sub-grade, all culverts, cross drains, and other similar structures (including the fully compacted backfill) shall be completed. No work shall be started on the preparation of the sub-grade before the prior works herein approved by the Engineer.
- 2.9.3.2 <u>Sub-grade Level Tolerance</u>: The finish compacted surface of the sub-grade shall conform to AASHTO M-145.

2.9.3.3 <u>Sub-grade in Cutting Common Material</u>

- a. Unless otherwise specified, all materials below sub-grade level in earth cutting to a depth of 150mm of other depth shown on the drawings or directed by the Engineer shall be excavated. The material, if suitable, shall be placed to one side for re-use, or if unsuitable, shall be disposed of in accordance with the requirements of AASHTO M-145.
- b. Where material has been removed from below sub-grade level, the base of the resulting cutting shall be compacted to a depth of 150mm to the requirements of AASHTO M-145 Table 1. If necessary, the moisture content of the material shall be adjusted.

2.10 GRADED AGGREGATES AND BASE COURSE

2.10.1 SUBMITTALS

- a. Test Reports: Before delivery of materials, submit the following test reports:
 - 1. Gradation
 - 2. Bearing Ratio
 - 3. Attenberg Limits

2.10.2 DELIVERY AND STORAGE

Do not construct base course when rainfall or other weather conditions will detrimentally affect the quality of the finished course.

2.11 PRODUCTS

2.11.1 MATERIALS

- a. <u>Aggregates:</u> Consist of durable sound crushed gravel, crushed stone, free of lumps and balls of clay or other objectionable matter. Crushed stone shall be free from flat, soft or disintegrated pieces. Crushed gravel retained on a No. 4 sieve shall have at least ninety percent (90%) by weight with at least two fractured faces one hundred percent (100%) by weight with at least one fractured face.
- b. Base course materials samples shall have a Bearing Ratio of at least 100 as determined by laboratory tests on a 4-day soaked specimen in accordance with ASTM D 1883; compact specimen in accordance with ASTM D 1557, Method D. Determine grain size in accordance with ASTM C-117.
- c. Soil binder material, the surface of the layer by a combination of rolling and blading. Final surface shall be smooth and free from waves, irregularities and from ruts of soft yielding spots.

III CONCRETE

3.0 GENERAL

3.0.1 Unless otherwise specified herein, concrete work shall conform to the requirements of ACI Building Code. Full cooperation shall be given other trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

3.1 SUBMITTALS

- 3.1.1 Shop Drawings: Reproduction of contract drawings is unacceptable.
- 3.1.2 Shop Drawings for Reinforcing Steel: ACI 318. Indicate bending diagrams, assembly diagrams, splicing and lap of bars, shapes. Dimensions and details of bar reinforcing, accessories and concrete cover. Do not scale dimensions from structural drawings to determine lengths of reinforcing bars.
- 3.1.3 Contractor Mix Design: Thirty (30) days prior to concrete placement, submit a design for each strength and type of concrete. Furnish a complete list of materials including type, brand; source and amount of cement and admixtures; applicable reference specifications and copies of test reports showing that the mix has been successfully tested to produce concrete with the properties specified and will be suitable for the job conditions. Provide fly ash and pozzolan test results performed within six (6) months of submittal date. Obtain approval before concrete placement.

3.1.4 Certificates of Compliance

- a. Aggregates
- b. Admixtures
- c. Reinforcement
- d. Cement

3.1.5 Catalogue Data

- a. Water stops
- b. Materials for Curing Concrete
- c. Joint Sealant
- d. Joint Filter
- e. Vapor Barrier
- f. Epoxy Bonding Agents

3.2 MATERIALS

- 3.2.1 Cement for concrete shall conform to the requirements of specifications for Portland cement (ASTM C-150).
- 3.2.2 Water used in mixing concrete shall be clean and free from other injurious amounts of oil, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
- 3.2.3 Fine Aggregates shall consist of hard, tough, durable uncoated particles. The shape of the particles shall be generally rounded or cubicle and reasonably free from flat or elongated particles. The stipulated percentages of fines in the sand shall be obtained either by processing sand or by the production of suitable graded manufactured sand.
- 3.2.4 Coarse Aggregates shall consist of gravel. Crushed gravel or rock. Or a combination of gravel and rock. Coarse aggregates shall consist of hard, tough, durable, clean and uncoated particles. The size of coarse aggregates top be used in the various parts of the Work shall be 3/4".
- 3.2.5 Reinforcing bars shall conform to the requirements of ASTM Standard specifications for Billet Steel Bars for concrete reinforcement (A15-625) and to Specification for minimum requirements for the deformed steel bars for concrete reinforcement (A305-56). Tensile strength and grade for all reinforcing bars such as main horizontal (for beams), vertical (for columns), ties, stirrups and inserts shall be as follows:

Grade $40 - 12 \text{ mm}\emptyset$ and smaller – fy = 275 (275mpa)

Grade 60 - 16 mm \emptyset to 25mm \emptyset - fy = 415(415mpa)

3.3 PROPORTIONING AND MIXING

3.3.1 Proportioning of all materials entering into the concrete mixture of 3,000 psi concrete shall be as follows:

 Class
 Cement
 Sand
 Gravel

 A
 1
 2.0
 4

3.3.2 Proportioning of all materials entering into the concrete mixture of 4,000 psi concrete shall be as follows:

 Class
 Cement
 Sand
 Gravel

 A
 1
 2.0
 3

- 3.3.3 <u>Strength of Concrete</u>: Concrete shall have 28-day cylinder strength of 3,000 psi shall be for slab on grade, Main stairs, Fire exit stairs, Wall footing, Ramp, Canopy, Septic tank, Cistern tank, Fire Reserve tank, MRF, Handhole for electrical, Concrete encasement and Entrance steps.
- 3.3.4 <u>Strength of Concrete</u>: Concrete shall have 28-day cylinder strength of 4,000 psi shall be for Columns, Beams, Suspended slabs, Footings and Elevator shear wall,
- 3.3.5 Mixing: Concrete of 4,000 psi compressive strength shall be ready-mixed in transit from batching plant as scheduled order from qualified supplier. The 3,000 psi concrete can be machine mixed on-site or also ready mixed in transit from batching plant. On-site mixing shall be within 30 minutes after the cement has been added to the aggregates.

3.4 FORMS

- 3.4.1 General: Forms shall be used whenever necessary to continue the concrete and shape it to the required lines, or to ensure the concrete contamination with materials caving from adjacent 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 of mortar from the concrete. Forms for exposed surfaces against which backfill is not to be placed shall be lined with a form grade plywood or metal panels.
- 3.4.2 <u>Cleaning and Use of Forms</u>: Before placing the concrete, the contact surfaces of the form shall be cleansed of encrustation of mortar, the grout or other foreign material, and shall be coated with commercial form oil that will prevent sticking and will not stain the concrete surfaces.

3.4.3 Removal of Forms: Forms shall be removed in a manner that will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be performed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

3.5 PLACING REINFORCEMENT

<u>General:</u> Steel reinforcement shall be provided as indicated, together with all necessary gauge 16 G.I. wire ties, chairs, spacers, supports and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust 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 of sufficient strength to maintain the operation. The 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.

3.6 CONVEYING AND PLACING CONCRETE

- 3.6.1 <u>Conveying</u>: Concrete shall be conveyed from mixer to forms as rapidly as practicable, by methods that 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.
- 3.6.2 <u>Placing</u>: Concrete shall be worked readily into the corners and angles of forms and around all reinforcement and embedded 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 consequent 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.
- 3.6.3 <u>Time interval between mixing and placing:</u> Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes.
- 3.6.4 <u>Consolidation of concrete</u>: Concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by hand spading and tamping. Vibrators shall not be inserted into lower coursed that have commenced initial set and reinforcement embedded in concrete beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall be by hand spading and tamping and vibrators shall not be used.
- 3.6.5 <u>Placing concrete through reinforcement:</u> In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratio as used in concrete shall be first deposited to cover the surface.

3.7 CURING

- 3.7.1 <u>General:</u> 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.
- 3.7.2 <u>Moist curing:</u> 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 wet spraying or intermittent hosing.

3.8 FINISHING

- 3.8.1 Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with smooth form material, and after removal of forms, the surfaces shall be smooth, true to line and shall present a finished appearance except for minor defects which can be easily repaired by patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form work.
- 3.8.2 <u>Concrete slabs on fill:</u> The concrete slabs on fill laid on a prepared foundation consisting of sub-grade and granular fill with thickness equal to the thickness of overlaying slab except as indicated otherwise.

3.9 SURFACE FINISHES

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- 3.9.1 <u>Defects:</u> Repair formed surfaces by removing minor honeycombs, pits greater than one square inch surface area or 0.25-inch maximum depth, or otherwise defective areas. Provide edges perpendicular to the surface and patch with non-shrink f=grout. Patch the holes and defects when the forms are removed.
- 3.9.2 <u>Floor slabs, Pavements and Miscellaneous Construction:</u> Unless otherwise specified, slab at the fountain area are straight to finish with waterproofing. Slope floors uniformly to drains where drains are provided. Depress the concrete base slab where Granite or Ceramic tiles are indicated.
- 3.9.3 <u>Finish:</u> Place, consolidate and immediately strike-off concrete to obtain proper contour, grade and elevation. A set sufficient for floating and supporting the weight of the finisher and equipment.

3.10 MISCELLANEOUS

- 3.10.1 <u>Construction Joints:</u> Locate joints to least impair strength; continue reinforcement across joints unless otherwise indicated.
- 3.10.2 Expansion Joints and Contraction Joints; For slab on grade, provide at edges of interior floor slab, adjacent to walls as indicated. Completely fill joints exposed to weather with joint filler material and joint sealant. Do not extend reinforcement or other embedded metal items bonded to the concrete through any expansion joints unless an expansion sleeve is used. Provide contraction joints, either formed or saw cut or cut with a jointing tool, to the indicated depth after the surface has been finished. Sawed joints shall be completed within 4 to 12 hours after concrete placement. Protect joints from intrusion of foreign matter.

IV METAL WORKS

4.0 DESCRIPTION

4.0.1 Metal works shall conform to the approved plans and to the Standard Specifications.

4.1 REFERENCE STANDARDS

- 4.1.1 Comply with the latest edition of the following as applicable, unless otherwise specified or modified.
 - 4.1.1.1 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 1978: Specification for the Design, Fabrication and Erection of Structural Steel for Buildings. Code of Standard Practice for Steel Buildings and Bridges; Specification for Architecturally Exposed Structural Steel.
 - 4.1.1.2 <u>AMERICAN WELDING SOCIETY (AWS)</u>: Standard Welding Symbols A2.0-68; Standard Welding Code D1.1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC).
 - 4.1.1.3 RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joists using ASTM A-325-76s Bolts.
 - 4.1.1.4 <u>STRUCTURAL STEEL PAINTING COUNCIL (SSPC)</u>: Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications.

4.2 SOURCE QUALITY CONTROL

Errors of Shop Drawings, fabrication, correct fitting and alignment of the various metal items or component members shall be the responsibility of the Contractor. However, the Contractor shall permit the Architect or an independent inspection agency, if engaged by the Owner, to inspect work in progress in his shop. Such inspections shall not relieve the Contractor of his responsibility to furnish materials and workmanship in accordance with the Contract Documents.

4.3 PRODUCT DELIVERY, HANDLING AND STORAGE

Handle and store in such manner as to prevent damage or disfigurement. Store finished items or components above ground on platforms, pallets or other supports and protect from harmful elements.

4.4 PROTECTION

The Contractor shall protect any existing work subject to damage during the installation of the specified work and shall adequately protect specified work during installation.

4.5 FIELD QUALITY CONTROL

Facilities shall be provided by the Contractor as needed for the proper inspection of the specified work, including temporary platforms, hoists, protective devices, electric current, etc. Improper workmanship, as determined by the Architect shall be corrected and replaced, at no additional cost to the Owner.

4.6 MATERIALS

Products shall conform to the respective reference specifications and standards and to the requirements specified herein:

- 4.6.0 <u>STEEL AND IRON:</u> If not specified otherwise, use standard mill-finished structural steel shapes or bar iron incompliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for Buildings.
- 4.6.1 BOLTS, NUTS, STUDS AND RIVETS: ASTM A 325
- 4.6.2 SCREWS: Fed. Spec FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

4.7 FABRICATION

By mechanics skilled in the trade and in accordance with the manufacturer'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.

4.8 MEASUREMENTS

Before fabrication, provide necessary field measurements and verify all measurements.

4.9 METAL 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, angles 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 bolts where they can be avoided; when used, heads shall be countersunk, screwed up tight and threads nicked to prevent loosening.

4.10 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.

4.11 SHOP FABRICATION

Fabrication and assembly shall be done in the shop to the greatest extent possible.

4.12 SUBMITTALS

Shop Drawings: Submit along with catalogue, cuts, templates, and erection and installation details, indicating thickness, type, grade, class of metal and dimensions. Show construction details, reinforcement, anchorage, and installation with relation to the construction.

4.13 QUALIFICATION OF WELDERS

In accordance with AWS D1.1using procedures, materials and equipment of the type required for the work.

4.14 DELIVERY AND STORAGE

Protect from corrosion, deformation and other types of damage. Store items in an enclosed area free from contact with soil and weather. Contractor shall replace and remove damaged items with new items.

4.15 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.

4.16 METAL PURLINS

Metal purlins shall be of high grade galvanized steel with minimum tensile strength of 275 MPa, 2mm in thickness.

V MASONRY

5.0 MATERIALS

- 5.0.0 All materials and workmanship shall be in accordance with the applicable standard and specifications of the Structural Code of the Philippines and uniform Building Code.
- 5.0.1 Concrete Hollow Blocks (CHB) shall have a minimum face thickness of 1" (25mm). Nominal size shall be 4" x 8" x 16", minimum compressive strength shall be 500 psi for non-load bearing and 700-1000 psi for load bearing. All units shall be stored for a period not less than 28 days (including curing period) and shall not be delivered to the job site prior to that time unless the structure is equal or more than the specified.
- 5.0.2 Prior to commencing the preparation of the sub-grade, all culverts, cross drains, and other similar structures (including the fully compacted backfill) shall be completed. No work shall be started on the preparation of the sub-grade before the prior works herein approved by the Engineer.
- 5.0.3 Cement shall be standard Portland cement ASTM 270 Type N.
- 5.0.4 Mortar: Mix mortar from 3 to 5 minutes in such quantities as needed for immediate use. Re-tempering will not be permitted if mortar stiffens because of premature setting. Discard such materials as well as those that have not been used within one hour after mixing. Proportioning shall be one (1) part Portland cement and two (2) parts and by volume, but not more than one (1) Portland cement and three (3) parts and by volume.

5.1 SUBMITTALS

- 5.1.0 Submit samples for approval two (2) samples each of each type of wall reinforcement and wall ties.
- 5.1.1 Certificates of Conformance: Submit certificate attesting that masonry cement, masonry units, aggregates and accessories meet the requirements specified.

5.2 ERECTION

5.2.0 All masonry shall be laid plumb, true to line, with level and accurately spaced courses, and with each course breaking joint with the source below. Bond shall be kept

throughout corners and reveals shall be plumb and true. Units with greater than 12% absorption shall be wet before laying. Work required to be built in masonry; including anchors, wall plugs and accessories shall be built-in as the erection progresses.

- 5.2.1 Masonry Units: Each course shall be solidly bedded in Portland cement mortar. All units shall be damp when laid units shall be showed into place not laid, in a full bed of un-furrowed mortar. All horizontal and vertical points shall be completely filled with mortar when and as laid. Each course shall be bonded at corners and intersections. No cells shall be left open in face surfaces. All cells shall be filled up with mortar for exterior walls. Units terminating against beam or slab soffits shall be wedged tight with mortar. Do not lay cracked, broken or defaced block.
- Plastering: Clean and evenly wet surfaces. Apply scratch coat with sufficient force to form good keys. Cross scratch coat upon its initial set; keep damp. Apply coat after each scratch coat has set at least 24 hours after scratch coat application. Lightly scratch brown coat; keep moist for two (2) days; allow drying out. Do not apply finish until brown coat has seasoned for seven (7) says. Just before applying coat, wet brown coat again. Float finish coat to true even surface; trowel in manner that will force sand particles down into plaster, with final trawling, leave surfaces banished smooth free from rough areas, trowel marks, checks, other blemishes. Keep finish coat moist for at least two (2) days; thereafter protect against rapid drying until properly, thoroughly cured.

5.3 SCAFFOLDING

5.3.0 Provide safe wood or metal scaffolding required for masonry and other related work, including cleaning down on completion. Remove upon demobilization.

5.4 SURFACE PREPARATION

- 5.4.0 Lay floors without borders from centerline outward. Make adjustments at walls. Clean concrete sub-floor and moisten it without soaking. Sprinkle dry cement over surface. Spread setting bed mortar on concrete and tamp to assure good bond over the entire area then screed to smooth, level bed. Set average setting bed thickness at ¾" but not less than ½".
- 5.4.1 Wall: Scratch coat application as foundation coat shall be at most ½". While still plastic, deeply score scratch coat or scratch and cross-scratch. Protect scratch coat and keep reasonably moist within seasoning period. Use mortar for scratch floor coats, within one hour after mixing. Re-tempering of partially hardened mortar is not permitted. Set scratch coat be cured for at least two (2) days before starting the setting.

5.5 CLEANING

- 5.5.0 <u>Protection</u>: Protect work which may be damaged, stained or discolored during cleaning operations.
- 5.5.1 <u>Pointing</u>: Upon completion of masonry work, cut out defective mortar joints and tuck joints and all holes solidly with mortar.
- 5.5.2 <u>Cleaning</u>: Clean exposed masonry surface with clear water and stiff fiber brushes and rinse with clean water. Where stains, mortar or other soil remain, continue cleaning as follows: Clean masonry surfaces by scrubbing with warm water and soap and rinsing thoroughly with clean water. Restore damaged, stained and discolored work to its original conditions or replace with new work.

VI ARCHITECTURAL

6.0 FLOOR AND WALL AND FINISHES

6.0.0 Exterior/Interior Walls & Floor finishes

- a. 600mm x 600mm Non-Skid Ceramic Tiles
- b. 300mm x 300mm Non-Skid Ceramic Tiles உள்ள வட்டு என்ன (
- c. Plain Cement Finish w/ Grooves
- d. 25mm concrete topping (for tiles)

4. <u>Door Stop</u>

Locate position where no traffic could be obstructed. For restroom doors where tile finish abuts the door swing side, use 6" above inside floor

finish on door panel.

5. <u>Door Closers</u>: Door closer for metal doors.

Exit Door Panic: Use Panic Exit Device, horizontal without key for

Device single panel for fire exits.

6.0.8 HANDRAILS AND RAILINGS

Follow as per approved plan and specifications.

6.0.9 OTHER FINISHES

6.

- a. QC Logo
- 6mm thk facial mirror on 6mm thk marine plywood backing including all incidentals to complete.
- Countertop & Backsplash, 20mm thk. Granite Slab Finish (CDS)
- d. PWD Comfort Room 50mmØ Stainless Steel Grab Bar
- Decorative Planters, including Masonry Works
- f. Vertical Plants on 2" x 2" Wire Mesh with 2" x 1/4" Angle Bar Framing
- g. Aluminum Composite Panel Cladding, 4mm thk., including angular framing sections, backer rod and sealant.
- h. Ramp Railing, Stainless Steel
- Bathroom Accessories (Bidet, tissue and soap holder, towel hook)

6.0.10 CLEAN-UP

When the work is completed, the Contractor shall remove all temporary structures and surplus materials of every sort, restore what has been removed before, and leave the premises or site in as good condition as he had originally found them.

VII THERMAL CONTROL AND MOISTURE PROTECTION

7.0 WATERPROOFING

Use waterproofing cementitious powder, capillary type, flexible type-liquid applied waterproofing seamless membrane latex-modified rubber reinforced on slabs. Refer to manufacturer's recommendation on proper application of the product listed herein:

7.1 VAPOR BARRIER

Use 8 mils thick, 6 feet wide roll plastic vapor barrier laid over compacted base course at ground floor slab with 300mm minimum overlap prior to setting up of steel reinforcing bars. Submit samples for approval.

7.2 WATERSTOPS

Use chemical grout water-stop specially formulated for construction joints to replace the use of conventional water-stop used for cold expansion joints on pipes, etc.

VIII CONVEYING SYSTEM - ELEVATOR

8.0 GENERAL

8.1 SCOPE OF WORK

- e. 300mm x 600mm Ceramic Wall Tiles.
- f. 12mm thk. Tempered Glass, Frameless
- g. 12mm thk. Tempered Glass, Frameless including accessories
- h. 5/16" Ficem Board Drop Wall including framing and accessories, Painted Finish

6.0.1 CEILING FINISHES

- a. 12mm thk. Gypsum Board on lightweight aluminum frames
- b. 12mm thk. Moisture Resistant Gypsum Board including framing and accessories

6.0.2 ROOFING WORKS

- a. Stainless Roof Gutter (Ga. 22) including framing and accessories
- b. 12mm thk. Tempered Glass Roof

6.0.3 WINDOWS

Follow as per approved plan and specifications.

6.0.4 DOORS

Follow as per approved plan and specifications.

6.0.5 PAINTING

- All paints shall meet the required specifications and shall be delivered at the site in the
 original container. Use non Volatile Organic Compound (V.O.C.) paint or approved by
 the implementing agency and only accredited painters of the manufacturer shall execute
 the work to ensure the true origin and quality of paint and warranty of work.
- Concrete walls shall be treated with neutralizers. Exterior walls without wall veneer shall
 be applied with a primer before final coat. In general, rough surfaces of concrete,
 cabinets and woodworks surfaces shall be properly sandpapered and puffied before any
 application of paint.
 - a. Epoxy Paint Finish (steel members)
 - b. Latex Paint Finish (exterior masonry walls and ceiling)
 - c. Latex Paint Finish (interior masonry walls, stairs and Slab Soffit)
 - d. Painting of Doors and jambs
 - e. Painting of Windows

6.0.6 WATERPROOFING AND DAMP-PROOFING

a. Capillary Type : Toilets

b. Flexible Type : Decks, Elevator Pit

6.0.7 HARDWARE

 Provide all rough hardware required for the construction of works: nails, straps, lag screws, etc.

Butt Hinges : Use Butt Hinges, 4" x 4" with bearings for panel door

3. Locksets : For PVC plastic, wood and metal swing doors use stainless mortise

locksets with striker plate.

This section covers the requirements for passenger elevators and service elevators, complete.

8.2 QUALITY ASSURANCE

Materials and equipment shall be the product of manufacturers regularly engaged in the manufacture of such products.

8.3 WELDER QUALIFICATIONS

The quality of welding and welding procedures shall be determined by testing the welder's ability to make sound welds, under standard working conditions with the equipment to be used in the work on this project, and in conformance with AWS D1.1, Section 5. Submit certified copies of the qualification of the welders employed on the contract.

Each welder shall identify his work with a code marking. Furnish a listing of the names of the welders with their corresponding code marks. Welders making defective welds during qualification tests and welders responsible for making defective welds after passing the test shall be given a requalification test. Reassign any welder who fails a requalification test.

8.4 SUBMITTALS

- 8.4.1 Manufacturer's Brochures and Layout Drawings: Submit manufacturer's brochures and layout drawings for approval before delivery of materials and equipment. Submit two samples of flooring to be used for passenger car platform. They shall contain enough detailed information to determine that the equipment conforms with the requirements of this specification and not less than the following information:
 - 8.4.1.1 Layout drawings depicting the location and arrangement of machinery and controls in machine room.
 - 8.4.2.2 Drawings and catalog cuts for Contractor furnished items and equipment including doors, frames, car enclosures, car frame, safety device, governor, buffers, controllers, selectors, motors, traction equipment, guide rails and brackets. Provide a complete layout of the hoist way in plan and elevation.
 - 8.4.2.3 Complete information on machine, motor generator set, brake, control system and buffers.
- 8.4.2 Operations and Maintenance Instructions: Furnish three complete sets of bound operating and maintenance instructions specifically for this installation. Operating portion shall be bound separately from maintenance portion. Explain in detail any components or methods peculiar to a particular system. Furnish one complete manual prior to the time that the equipment test is performed. Furnish the remaining manuals before the contract is completed.
- 8.4.3 Posted operating Instructions:
 - 8.4.3.1 Wiring Diagrams and Sequence of Operation: Furnish complete wiring diagrams showing the electrical connections, functions and sequence of operation of apparatus connected with the elevators, both in the machine room and in the hoist way.
 - Provide such diagrams in quadruplicate at the time of the final inspection and acceptance. One set shall be plastic or glass-covered, framed and mounted in the elevator machine room. The other set shall be delivered to the Architect.
 - 8.4.3.2 Lubrication Chart: Furnish one plastic or glass-covered and framed lubrication chart. Mount this chart as directed in the elevator machine room. This chart shall identify lubricants as well as lubrication points and required frequency of application...

8.5 PRODUCTS

- 8.5.1 The elevator equipment shall be an AC (no motor generator required) feedback control elevator, Mitsubishi Elevator or approved equal. The elevator car and hoist way doors shall be fully, automatically powered.
 - 8.5.1.1 Passenger Elevators

a. Type - Scenic Type

b. No of Cars - 2 Units

c. Capacity - 1350 KG

d. Speed - 1.0 m/s

e. Traction Machine - Machine Power Supply

f. Power Supply - 220 -230 V

g. Travel - PE 1 & 2 – 26,600

h. Number of Stops - PE 1 & 2 - 8 Stops (Ground to Eight Floor)

i. Car Dimension - 1500mm x 2100mm

j. Door Operation - Two (2) Panels Center Opening

k. Door Opening - 1000mm x 2100mm

Car Interior - Refer to Architect

m. Hoist way Size - 2400mm x 2600mm

n. PIT - 1600mm

8.6 EXECUTION

8.6.1 COMPLIANCE: When the elevator work included in the contract is fully complete, the Contractors shall notify the Architect in writing that the elevator is ready for final inspection and acceptance tests. Obtain the services of a certified elevator inspector the Contractor shall be fully responsible to perform all tests and demonstrate the proper operation of all parts and provisions of the equipment. The contractor shall prove to the satisfaction of the architect and the elevator inspector that the elevator as installed complies with the requirements of the contract.

- 8.6.2 FINAL INSPECTION: In addition to any others tests, make the following tests at the time of final inspection.
 - 8.6.2.1 Test Period: Subject the elevator to a test for a period of one-hour continuous run, with specified rated load in the car. During the test run, the car shall be stopped at all floors in both directions of travel for a standing period of 10 seconds per floor. Provide also a manual test of the final limits (up and down over travel).
 - 8.6.2.2 Speed Load Test: Determine the actual speed of the elevator car, in both directions of travel with the rated load and with not load in the elevator car. Make speed tests before the rated-load test run and also after the rated load test run. Determine speed by applying a tachometer to the car hoisting cables. The actual measured speed of elevator car with the rated load in the "UP" direction shall be within 5 percent of the rated speed. The maximum difference in actual measured speeds obtained under the various conditions outlines shall not exceed 10 percent of the total difference between the "UP" and "DOWN" directions.
 - 8.6.2.3 Car leveling tests: test elevator car leveling devices for accuracy of landing at all floors with no load in car, symmetrical load in car, and with the rated load in car, in both directions of travel. Determine the accuracy of floor landing both before and after the rated full-load run test.
 - 8.6.2.4 Brake Test: conduct brake test with the rated load in the car. Brakes shall stop and hold the car with the rated load.
 - 8.6.2.5 Insulation resistance tests: the complete wiring systems of the elevator shall be free from short circuits and grounds, and the insulation resistance shall be determined by use of a "Megger". Conductors shall an insulation resistance of

not less than one mega ohm between each conductor and ground and between each conductor and all other conductors.

- 8.6.2.6 Buffer test: test buffers for car
- 8.6.2.7 Certification: in addition to the test required, the contractor shall provide evidence of certification by a public authority of competent jurisdiction for the project area, stating that each governor and car safety has been tested and approved for use with the equipment having the specific ratings indicated or specified. Include the following data on a date plate attached to each safety:
 - a. Manufacturer's name
 - b. Model and type designation
 - Maximum tripping speed in meters per minute
 - Maximum gross load, in kilograms which the safety is designed to stop and sustain as installed.
 - e. The date of the safety test, made during the elevator inspection and acceptance tests witnessed by a certified elevator inspector, his name and certificate number.
- 8.6.3 REINSPECTION: if any equipment is found to be damaged or defective, or if the performance of the elevator does not conform to the requirements of the contract specifications or the safety code, no certificate of approval shall be issued, until all the defects have been corrected. When the repairs and adjustments have been completed and the discrepancies corrected, the architect shall be notified and the elevator shall be re-inspected. Do not use rejected elevators until they have been re-inspected and approved.

IX PLUMBING

GENERAL

9.1 DESCRIPTION

- 9.1.0 Applicable provisions of General Conditions govern work under this section.
- 9.1.1 All fittings, connections and piping embedded in concrete shall be subject to inspection by the Architect and/or his representative before covering and/or completion.
- 9.1.2 The contractor shall provide all items, articles, materials, operations of methods listed, mentioned or scheduled on the drawings and/or herein, including labor, materials and incidentals necessary and required for their completion.
- 9.1.3 The contract drawings and specifications are complementary to each other, and any labor or materials called for by either, whether or not called for by both, if necessary, for the successful operation of any of the particular type of equipment furnished and installed will be without additional cost to the owner.
- 9.1.4 Intent: It is not intended that the drawings shall show every pipe fitting. All such items, whether specifically mentioned or not, or indicated in the drawings shall be furnished and installed, if necessary to complete the system in accordance with the best practice of the plumbing trade and to the satisfaction of the engineer and the owner.
- 9.1.5 The plumbing contractor is required to refer to all architectural, structural and electrical plans and specifications and shall investigate all possible interferences and conditions affecting his work.

9.2 SCOPE OF WORK

Work included under this section of this specification consists of furnishing all labor, tools and equipment, appliances and materials necessary for complete installation, testing and operation of the storm drainage system in accordance with the contract.

- a. Arrange for, obtain and bear the cost of necessary permits, bonds and fees, private or government shall be paid by the contractor.
- b. Supply and installation of Sanitary lines of the Building.
- c. Supply and Installation of waterlines of the Building.
- Storm drainage system and connection to the nearest storm drainage outlets.
- e. Supply and Installation of Plumbing fixtures.
- f. The contractor shall provide all necessary shop drawings and two (2) sets of As-Built Plans.
- g. Excavation and backfilling in connection with the work shall be included.
- h. Furnishing of written one (1) year warranty of the plumbing system

9.3 SUBMITTALS

- 9.3.1 Within fifteen (15) days after award of contract, the contractor shall submit for engineer's approval, four (4) copies of all complete list of manufacturer's name of all materials he proposes to use.
- 9.3.2 After approval of the above list and before purchase of any materials, the contractor shall submit to the engineer for approval, four (4) complete sets of detailed information consisting of manufacturer's bulletins, shop drawings and partial list of materials to be provided under this contract.
- 9.3.3 The contractor shall assume the loss of and the entire responsibility of any change in the work as shown in the contract drawings, which may be occasioned by approval of materials other than those specified.

9.4 APPLICABLE CODE AND STANDARD

- 9.4.1 All Waterline, Sanitary Line & Storm Drainage works to be done and the sizes of pipes to be used shall be in accordance with the National Plumbing Code and the Plumbing Code of the Philippines.
- 9.4.2 The plumbing contractor shall verify the above paragraphs with each section of the specifications and coordinate his work so that the general contractor will understand clearly the intent of the work to be done.

9.5 PRODUCTS

9.5.1 Description of Materials

All materials to be used shall conform to the standards specified. Use of materials shall be governed by other requirements imposed on other section of these specifications. Materials shall be subject to tests necessary to ascertain their fitness if the engineer so requires.

9.5.2 Alternate Materials

Use of any material not specified in these specifications may be allowed, provided such alternate has been approved by the engineer, and provided further, that a test is required, shall be done by an approved agency in accordance with generally accepted standards.

9.5.3 Identification of Materials

Each length of pipe, fittings, traps, fixtures and devices used in the storm drainage system shall have case, stamped or indelibly marked on it the manufacturer's trademark or name, type and classes of products when so required by the standards mentioned. All materials and equipment mentioned in these specifications, including all incidental items not specifically indicated, but required to complete the contract shall be new and free from defects. If damaged during the course of construction, it shall be repaired or replaced as directed by the Project Manager at no additional cost for the owner.

9.5.4 Pipes and Fitting Schedule

- 11.5.4.1 Drain, Waste and Vent shall be unplasticized polyvinyl chloride (uPVC) conforming to ASTM D1784.
- 11.5.4.2 Storm Drainage Lines Pipe sizes 250mmØ and above shall be reinforced concrete pipe. Pipe sizes 200mmØ and below shall be non-reinforced concrete pipe.
- 11.5.4.3 Water lines shall be PPR pipe PN16

9.5.5 Valves and Appurtenances

- 11.5.5.1.1 Gate valve shall be screwed, bronze, class 150 psi
- 11.5.5.1.2 Check valve shall be screwed, bronze, class 150 psi

9.5.6 Pipe Sleeves

11.5.6.1.1 Pipe sleeves shall be installed and properly secured in place at all points where pipes pass through masonry or concrete, except unframed floors

9.6 EXECUTION

9.6.1 Piping Installation

Piping shall be installed as shown on the drawings, as recommended by the manufacturer and as directed during installation, straight and direct as possible, forming right angles or parallel lines with building walls and other pipes and neatly spaced. Erect pipe risers plumb and true, parallel with walls and other pipes neatly spaced. All piping shall be supported or suspended on stands, clamps, hangers or equivalent or approved design. Supports shall be installed in such a manner to permit pipe free expansion and contraction while minimizing vibration.

9.6.2 Plumbing System Test

The entire system of drains shall be tested. Water test shall be in accordance with the plumbing Code. Every portion of the system shall be tested to a hydrostatic pressure equivalent to at least 10-foot head water for a period of $\frac{1}{2}$ hour before covering. Defects disclosed by the test shall be repaired with new materials at the expense of the contractor.

X ELECTRICAL WORKS

10.1 WORK INCLUDED

- 10.1.1 The work to be done under this Division comprises the furnishing of all tools, labor, equipment, fixtures and materials, unless otherwise herein specified, required to complete and leave ready for use the electrical system of the Proposed Construction of Scenic Elevator and Interconnecting Bridge at Civic Center B (Public Works Building) and Civic Center A (Commerce Building), at Barangay Central, QC Hall Compound Elliptical Rd., Quezon City in accordance with this specification and accompanying drawings of materials and finishes.
- 10.1.2 The electrical contractor shall coordinate his work so that the general contractor and all other subcontractors will understand clearly the work to be done. The electrical contractor shall finish all electrical facilities and provision necessary for the installations and operations of other trades such as mechanical, air-conditioning, plumbing, sanitary and others.
- 10.1.3 All contractors and all companies or persons providing labor, materials or both for this project, are specifically referred to the General Conditions of the specifications, to the general contract plans, to all Divisions of specifications and to the various other contract documents, which may affect the completion of the contract work.

10.2 CODES, INSPECTIONS, PERMITS AND FEES

- 10.2.1 The work under this contract shall be done according to the requirements of the latest edition of the Philippine Electrical Code, the rules and regulations of the Local Government Authorities of Quezon City and the requirements of Manila Electric Company. Nothing contained in this specification or shown on the drawings shall be construed as conflict with national and local ordinances or laws governing the installation of Electrical Works, and all such laws and ordinances are hereby made part of these specifications. The contractor is required to meet the requirements hereof.
- 10.2.2 All permits and electrical fees required for this work shall be obtained at the expense of the Contractor. The Contractor shall furnish the Architect or the Owner or the same maybe, a final certificate of electrical inspection and approval from the proper government authorities after completion of the work.

10.3 TEST

10.3.1 The electrical contractor shall apply such test, replace or remedy all defective work and adjust such system as needed or as the Architect or the owner shall direct. He shall also instruct the proper use of the system and equipments to persons designated by the owner

10.4 MEASUREMENTS

10.4.1 The Electrical Contractor shall procure from the Architect detailed drawings of those parts of the work not fully shown on the plans and he shall compare and verify with the Owner. Any lack of agreement shall be submitted at once to the Architect for adjustments.

10.5 SLEEVES AND FORMS FOR OPENINGS

10.5.1 The Electrical Contractor shall provide and places all sleeves, for piping penetrating floors, walls, partitions, etc. He shall locate all necessary slots and openings for his work and it shall be done at such time as not to delay the general contractor of the project.

10.6 LOCATION OF OUTLETS

10.6.1 All Outlets shall be truly centered in panels and spaces provided thereof. Any discrepancy in the outlet location between the electrical plan and architectural plans shall be submitted to the Architect at once, to be verified before outlets are installed.

10.7 GROUNDINGS

- 10.7.1 All metallic conduits, supports, cabinets and equipment shall be properly grounded and bonded by means of copper straps. The conduits of such system shall be grounded by connecting to the grounding rod.
- 10.7.2 All ground connections shall have clean outlet surfaces and shall be tinned and sealed while bolting. Unless otherwise specified, ground wire shall be installed in exposed conduits and connections made readily accessible for inspection. Connection shall not be made underground or concealed in floors or walls.

10.8 WIRING METHODS

10.8.1 All wiring shall in general be installed inside standard conduits. All conduits shall run embedded in concrete, underground but in concrete envelope, embedded in hollow blocks partition, concrete slab, walls and roof above, between double wall wooden partitions if any, where the installation of concealed and/or embedded conduit wiring may be used, but only upon approval of the Owner's authorities concerned. Exposed conduits shall be Intermediate Metal Conduits unless otherwise specified.

10.9 GUARANTEE

10.9.1 The Electrical Contractor shall guarantee his work for a period of one (1) year from the date of final acceptance by the owner except for particulars items specifically mentioned in these specifications. 10.9.2 The Electrical Contractor shall, without additional compensation for the period specified, replace any work materials or equipment furnished and installed by him under this contract, which develop defects except from ordinary wear and tear.

10.10 MATERIALS

- 10.10.1 All materials shall be new and shall conform to the standards of *Underwriter's Laboratories*, *Inc.*
- 10.10.2 All materials on all systems shall comply with the following specifications unless specified and all materials not specified shall be of the best of their respective kind
- 10.10.3 Materials sample shall be submitted for approval as required by the Architect and Electrical Engineer.

10.11 WIRES

- 10.11.1 All wires shall be copper, soft drawned and annealed, shall be 98% conductivity or better, shall be smooth and true of a cylindrical form and shall be within the actual size called for.
- 10.11.2 All wires and cables shall comply with the requirements of the *Underwriter's Laboratories Inc.*, the ASTM and the IPCEA as to their particular usage.
- 10.11.3 Wires and cables for outdoor and indoor lighting and power system shall be moisture and Heat Resistant Thermoplastic insulated for 600volts working pressure type THHN unless otherwise noted on the plans or specified.
- 10.11.4 For lighting and power system, no wire smaller than 3.5mm² shall be used except for control leads/ grounding wire.
- 10.11.5 All wires and cables shall be manufactured by a reliable manufacturing company acceptable to the Electrical Engineer of the owner.

10.12 CONDUITS

10.12.1 The conduit system shall consist of the following

Intermediate Metal Conduit (IMC) & Electrical Metallic Tubing (EMT)

They shall be of standard sizes and weight, mild steel hot dipped galvanized with inside enamel or epoxy coating, and acceptable to the Electrical Engineer of the Owner.

Polyvinyl Chloride Conduit (PVC)

They shall be of standard size and weight, made of polyvinyl chloride, extruded, heavy wall, rated for 90-degree centigrade cable, schedule 40, pipes or approved equal pipes.

Limitations of use shall be as follows:

- a. As per requirement of the latest edition of PEC and/or NEC.
- b. Not permitted where subject to mechanical damage.
- 10.12.2 All conduits shall be of true cylindrical form and shall be within the actual size called for.
- 10.12.3 No conduits shall be used in any system smaller than 15-mm electrical trade size, not shall have more than four 90 degrees' bend in any one run, and where necessary, hand hole and pull boxes shall be provided.
- 10.12.4 No wires shall be pulled in any conduit until the conduit system is complete in all details, in case of underground work, until concrete envelope or masonry has been completed in every detail. In case of concealed work, until rough plastering has been completed.
- 10.12.5 The ends of all conduits shall be tightly plugged to exclude plaster dust sand and soil including moisture while the renovation of the perimeter is in the process.

- 10.13.1 At all outlets of every kind, for all systems, there shall be provided a suitable fitting which shall be either a box or other device especially designed to receive the type of fitting to be mounted thereon.
- 10.13.2 The Contractor shall consult with the Electrical Engineer as to the nature of various fittings to be used before installing his outlet fittings and shall conform strictly in the use of fittings so that the work when completed will be finished design.
- 10.13.3 In case of lamp post, the outlet of fittings shall be provided with suitable fixtures supports or a support of a size and a kind required by the fixture to be erected.

10.14 SWITCHES

10.14.1 Local lighting switches shall be flush type, heavy duty, 15- ampere size 250 volts, bakelite case, quick connect terminal Outdoor lights shall be automatically operated by means of photo switch and manual selection. Or it might be a manual switch by means of breaker switch inside the lighting panel.

10.15 RECEPTACLES

10.15.1 Standard receptacles shall be 15- ampere size 250volts, parallel slots, duplex, flush mounted composition case, side wired with the insulated mounting yoke. If weatherproof wall plate is required, standard factory made metal waterproof plate.

10.16 PLATES

10.16.1 All switches and receptacles plates shall be bakelite plastic, ivory-colored or as directed by the Architect.

10.17 SWITCH GEAR, PANEL BOARDS AND CABINETS

- 10.17.1 Panel boards for outdoor lightings shall conform as indicated in the drawings with respect to supply characteristics, rating of main lug or main circuit breaker, main magnetic contactor, number and sizes of branch circuit breakers. All should have factory-wired control wirings with terminal block connection for external leads.
- 10.17.2 Lighting and power panel board either wall mounted or free standing shall consist of a factory complete dead front assembly of back plan, main busses, overcurrent and switching units, sheet metal cabinet and trim. Cabinet shall be fabricated from code gauge galvanized sheet metal with cover capped and fastened.
- 10.17.3 Panel boards and trim shall be suitable for the type of mounting shown on the drawings. The inside and outside of the panel boards cabinet and trim shall be factory painted and having two (2) coats of rust proof prime coat and one finish shop of gray enamel paint.
- 10.17.4 All cabinets and enclosure shall be general purpose, NEMA type 1 for indoor installation. Except where specifically noted on plans for outdoor use shall be rain tight and dust type NEMA 4X type enclosure.
- 10.17.5 All circuit breakers with frame size above 100AT shall have minimum interrupting capacity of 22 KAIC at 230 volts and frame size 100AT and below shall have minimum interrupting capacity of 18 KAIC at 230 volts. All circuit breakers shall be molded case, bolt on type with thermal magnetic trip elements. Number of poles, trip coil rating and frame size shall be as indicated on plans.
- 10.17.6 Switchgear main circuit breaker shall be stationary type, programmable trip device, an electronic relay that employs microprocessors-based technology. Functions to overload protection, short circuit protection, with selectivity, instantaneous short circuit protection with adjustment and ground fault protection.
- 10.17.7 Cardholder on inside of door with clear plastic cover and complete typewritten schedule of panel branch circuit shall be provided. Leave spare circuit blank.
- 10.17.8 Local panel boards and switchgear manufacture shall include among others,

10.17.9 Submit samples and or product description of panel board to be used for approval prior to ordering and installation.

10.18 ELECTRIC SERVICE

- 10.18.1 The electric service shall be three (3)-phase, 3 wire + 1 neutral, 220volts, 60 hertz. The sizes of service entrance conductor and conduit are shown in the plans.
- 10.18.2 The electrical contractor shall inspect the site, consult with MERALCO and check the orientation of the proposed service entrance before commencing work to avoid field problems.

10.19 LIGHTING SYSTEM

- 10.19.1 The lighting system shall be complete in every respect as indicated on the electrical plans or as specified in the Architectural plans. Exact fixture location shall be determined.
- 10.19.2 All wiring shall be installed in conduits, and in general shall be concealed. Buried underground in concrete encasement and/or embedded in concrete.
- 10.19.3 Mounting height of devices shall be as indicated in the plans and/or subject to Architect's approval prior to installations as follows

Local switches - 1.4 above finish floor line Receptacles - 0.3 above finish floor line

10.20 DISTRIBUTION FEEDERS

10.20.1 Distribution voltage shall be 220votls, three (3)-phase, 3 wire + 1 neutrals. Feeder conductors and raceway shall be installed as shown on drawings and no change in size shall be made without the written consent of the Engineer. Feeder conductors shall be continuous, and without splices between terminals. When feeders are run in multiple, they shall be exactly of the same length to avoid unbalanced division of the current.

10.21 CONNECTORS AND INSULATION

10.21.1 Use solderless mechanical pressure type lugs, copper connectors for splicing wires greater than no 8mm.sq. All splices shall be properly insulated using rubber tape and plastic electrical tape. Application of tapes shall be equivalent to the insulation of wire concerned, edges to provide smooth surfaces before taping.

10.22 BRANCH CIRCUITS

10.22.1 The drawings indicate the general methods of installation of all circuit wirings and the power lighting outlets which are to be supplied from this circuit. Branch circuit raceways shall be run from outlets to panel boards as direct as the ground and level condition will allow. Circuit allocations shall be as indicated on the drawings. Where it becomes necessary to connect any outlet to the circuit other than the one shown on the drawings, this shall be done without extra charge and only upon written consent of the Architect. No wire smaller than 3.5mm sq. shall be used for any lighting or power branch circuit. All lighting outlet shall be supplied from 2-wire single phase circuits. Number of wires for other outlets shall be as indicated on the drawings.

10.23 MOTOR CONNECTIONS

- 10.23.1 Connect the motor starting devices for all motors, except where otherwise specifically provided for under other contracts. Furnish all necessary connections between controllers and motors in conduit, and leave motor ready to start. The power supply leads to the motor from the controller shall be the same as the feeder indicated on the drawings, except for six terminal lead motor where wye-delta starting method is being applied.
- 10.23.2 Other trades, i.e. mechanical contractor, except as otherwise noted or specified will supply and deliver all controllers and shall erect and connect up safe complete.
- 10.23.3 The Electrical Contractor or trade people shall be held responsible as far as power supply to the controller is concerned. He shall ascertain the exact location of the motor controller and motors from other trades before installing the circuit work.

GENERAL CONDITIONS & TECHNICAL SPECIFICATIONS Page 23 of 24

10.24 RECORD DRAWINGS AND AS BUILT PLANS

- 10.24.1 The Electrical Contractor shall keep an active record of the actual installation works during the progress job. The shall become the reference for the preparation of the As-Built Plans which shall include all pertinent information, complete in all aspects of the actual installations, all new information not originally shown in the contract drawings. The As-Built Plans shall be prepared by the Electrical Contractor at his expense and shall be submitted to the Architect and the Engineer for approval upon the completion of the work. The approval of the As-Built drawings shall be a pre-requisite for the final acceptance of the electrical works.
- 10.24.2 Two (2) copies of the As-Built drawings, signed and sealed by the Electrical Contractor's Professional Electrical Engineer, shall be submitted to the Architect and Engineer consultants. Original tracing/ reproducible copy shall also be submitted.
- Note: In contrast between these Technical Specifications and the approved Plans issued to the Contractor, the approved Plans shall prevail. See also the approved program of works. In case of doubt, for clearer outlooks consult the assigned Architect/Engineer.

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.]

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 CONSTRUCTION OF SCENIC ELEVATOR AND INTERCONNECTING BRIDGE AT CIVIC CENTER B (PUBLIC WORKS BUILDING) AND CIVIC CENTER A

(COMMECRCIAL BUILDING)

: BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY LOCATION

PROJECT NO. : 23 - 00016

DURATION: Three Hundred Thirty (330) Calendar Days

BREAKDOWN OF COST

ITEM CODE	WORK DESCRIPTION	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
GR	GENERAL REQUIREMENTS	₱	₱	₱	₱
OGR	OTHER GENERAL REQUIREMENTS				
1	CONSTRUCTION OF SCENIC ELEVATOR				
II	INTERCONNECTING BRIDGE				

TOTAL COST P

LUMP SUM BID IN WORDS :	 	
_		
Contractor :		

Page 3 of 3 Bid Form

BILL OF QUANTITIES

(Bridge Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED CONSTRUCTION OF SCENIC ELEVATOR AND INTERCONNECTING

BRIDGE AT CIVIC CENTER B (PUBLIC WORKS BUILDING) AND CIVIC CENTER A

(COMMERCIAL BUILDING)

LOCATION : BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY

PROJECT NO. : 23 - 00016

DURATION: Three Hundred Thirty (330) Calendar Days

SCOPE OF WORKS:

OPE OF WO	DRKS:
GR	General Requirements include billboard(s).
OGR	Other General Requirements (NON-O.C.M.) include, but not limited to:
1	Construction safety (construction barrier/ canopy).
2	Temporary enclosure around the construction area.
3	Temporary water system including water meter/sub-meter and connections.
4	Temporary electrical system including electric meter/sub-meter and connections.
5	Clearing, hauling and disposal of construction materials and debris.
6	Scaffolding for general use (rental).
I	CONSTRUCTION OF SCENIC ELEVATOR
I-SW	Site Works:
1	Earthworks include excavation for structures, backfilling and compaction.
2	Demolition/removal works.
3	Layout and staking.
4	Site clearing and preparation.
I-CWS	Civil / Structural Works:
1	Earthworks include gravel bedding.
2	Concrete works include concreting, installation of reinforcing steel bars, and formworks and shoring.
3	Moisture protection include waterproofing works and provision for vapor barrier and soil treatment.
4	Masonry works include laying of CHB, plastering works and concrete topping.
5	Metal works include fabrication of metal structures.
I-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 wall, ceiling and metal surfaces.
5	Fabricated materials include installation of doors.
I-S/PW	Sanitary/Plumbing Works:
1	Installation of roughing-ins, valves, appurtenances and supports for storm drainage.
2	Installation of submersible pump.
I-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, energy efficient lighting fixtures and components, panelboards and accessories.
I-MECH	Mechanical Works:
1	Supply and installation of elevator system with complete accessories.

II	INTERCONNECTING BRIDGE
II-SW	Site Works:
1	Demolition/removal works.
II-CWS	Civil / Structural Works:
1	Concrete works include concreting, installation of reinforcing steel bars, and formworks.
4	Masonry works include laying of CHB, plastering works and concrete topping.

- 3 Moisture protection include waterproofing works. 4 Metal works include fabrication of metal structures. 5 Roofing works include installation of roofing and bended materials. II-AW Architectural Works: 1 Floor finishes include tile works for flooring and other floor finishes. 2 Wall finishes include tile works for walls, partitions and composite panels and other wall finishes. 3 Ceiling works include installation of ceilings with framings. 4 Painting works include painting for interior walls and ceilings. 5 Fabricated materials include installation of doors and windows, countertops, logos and letterings. II-S/PW Sanitary/Plumbing Works: 1 Installation of roughing-ins, valves, appurtenances and supports. 2 Installation of water efficient sanitary/plumbing fixtures and accessories. II-EW **Electrical Works:** 1 Installation of roughing-ins and wirings. 2 Installation of system devices, energy efficient lighting fixtures and components, panelboards, switchgears and
 - accessories.
 O Others (included in O.C.M)
 - 1 Provision of construction, health and safety such as safety gears, medicine kit, etc.
 - 2 Preparation of shop drawings, as necessary.
 - Preparation of as-built plans (signed and sealed by the respective professional(s)).
 - 4 Testing and commissioning works shall be performed as per standard procedures.

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
OGR	GENERAL REQUIREMENTS				
SPL7	Billboard (1.20m X 2.40m in Plywood)	1	piece	₽	₱
				ERIALS COST GR	
			1	LABOR COST GR	
			I	DIRECT COST GR	₽
OGR	OTHER GENERAL REQUIREMENTS				
OGR02b	Construction Barrier/Canopy	45	l.m.	₽	₽
OGR02c	Temporary Enclosure Around the Construction Area (H=2.4m)	53	l.m.		
OGR0301	Temporary Water Facility	1	unit		
OGR0302	Temporary Electrical Facility	1	unit		
				Subtotal (Material)	₱
OGR01	Clearing, Hauling and Disposal of Construction Materials and Debris	8	t.l.	P	P
OGR05	Scaffolding (Rental)	1,718	sq.m.		
					_
				Subtotal (Labor)	₽
			MATERIAL COST OGR		₽
			L	ABOR COST OGR	

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
			DI	RECT COST OGR	₽
I	SCENIC ELEVATOR				
I-SW	SITE WORKS				
106	Excavation for Structures	199	cu.m.	₱	₱
SW04	Backfill	125	cu.m.		
DEMV001	Chipping Works (Electrical Works)	3	cu.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
DEMV004	Demolition of Existing Concrete Structure	15	cu.m.		
DEMV004	Demolition of Existing CHB Wall	26	cu.m.		
DEMV009	Removal of Existing Door including Hardware and Accessories	2	set		
DEMV016	Demolition of Existing Cladding including Framing	40	sq.m.		
DEMV027	Removal of Existing Windows Panel including Hardware and Accessories	33	sq.m.		
SW01	Layout and Staking	52	sq.m.		
SW02	Site Cleaning and Preparation	52	sq.m.		
			Direct	Cost I-SW (Labor)	P
I-CWS	CIVIL / STRUCTURAL WORKS				
CWSE	Earthworks				
CWSE01	Gravel Bedding	3	cu.m.	₽	₽
CWSC	Concrete Works				
CWSCR1	Ready-Mix Concrete, 21MPa, 3/4" Gravel @ 28Days				
CWSCR104	Wall Footing	8	cu.m.		
CWSCR104	Slab-on-Fill	6	cu.m.		
CWSCR104	Ramp	8	cu.m.		
CWSCR1	Ready-Mix Concrete, 28MPa, 3/4" Gravel @ 28Days				
CWSCR106	Combined Footing	20	cu.m.		
CWSCR106	Elevator Pit	4	cu.m.		
CWSCR106	Pedestal	7	cu.m.		
CWSCR106	Shear Wall	8	cu.m.		
CWSCR106	Suspended Slab	37	cu.m.		
CWSRB	Reinforcing Steel Bars				
CWSRB40	Grade 40 Reinforcing Steel Bar including GI Tie Wire Ga. 16				
CWSRB4001	10mm Ø Wall Footing	163	kg		
CWSRB4001	10mm Ø Column	715	kg		
CWSRB4001	10mm Ø Slab-on-Fill	187	kg		
CWSRB4001	10mm Ø Suspended Slab	1,500	kg		
CWSRB4002	12mm Ø Wall Footing	280	kg		
CWSRB4002	12mm Ø Ramp	107	kg		
CWSRB60	Grade 60 Reinforcing Steel Bar including GI Tie Wire Ga. 16				
CWSRB6001	16mm Ø Combined Footing	677	kg		
CWSRB6001	16mm Ø Elevator Pit	259	kg		
CWSRB6001	16mm Ø Shear Wall	796	kg		
CWSRB6003	25mm Ø Combined Footing	2,744	kg		
CWSRB6003	25mm Ø Pedestal	2,137	kg		
CWSF	Formworks and Shoring		1		
CWSF03	Pedestal	72	sq.m.		
CWSF04	Suspended Slab	274	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSF04	Ramp	16	sq.m.		
CWSF07	Shear Wall	41	sq.m.		
CWSMP	Moisture Protection				
CWSMPV	Vapor Barrier				
CWSMPV03	6 mil	54	sq.m.		
CWSMPV04	Soil Treatment	225	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSMPW	Waterproofing Works				
CWSMPW03	Membrane Type for Roof Deck	63	sq.m.		
CWSMPW03	Membrane Type for Elevator Pit	20	sq.m.		
CWSMA	Masonry Works				
CWSMA03	100mm CHB Laying including Mortar, Reinforcement and Two-Face Platering	25	sq.m.		
CWSMA04	150mm CHB Laying including Mortar, Reinforcement and Two-Face Platering	89	sq.m.		
CWSMA10	Plain Cement Finish with Groove Line Finish	20	sq.m.		
CWSMA11	Concrete/ Floor Topping 25mm	268	sq.m.		
CWSME	Metal Works				
SPL21	50mm Ø Steel Railings	83	l.m.		
CWSME07	Structural Steel				
CWSME0704	Base Plate for Pedestals	3,162	kg		
CWSME0704	Connector Plate for Column to Beam	1,789	kg		
CWSME0706	2 - 75mm x 200mm x 10mm Metal Channel (Beam and Column)	24,807	kg		
CWSME0717	Wide Steel Flange as Frame (Beam)	19,711	kg		
CWSME0717	Wide Steel Flange as Frame (Column)	34,880	kg		
CWSME08	Metal/ Steel Works Accessories				
CWSME0802	Shear Connector	1,280	piece		
CI/S	Common Items/ Supplies				
CI/S0211	38mm Ø Anchor Bolt	72	piece		
MC	Miscellaneous and Consumables				
MC/G05	Grinding Disc for Metal	30	piece		
MC/G13	Structural Sealant	1	tube		
MC/G19	Acetylene Tank (Refill)	11	tank		
MC/G23	Cut Off Blade	30	piece		
MC/G27	Assorted Metal Drill Bit	28	piece		
MC/G29	Oxygen Tank (Refill)	21	tank		
MC/G36	Welding Rod	124	kg		
			Ма	terials Cost I-CWS	₽
				Labor Cost I-CWS	
				Direct Cost I-CWS	₽
I-AW	ARCHITECTURAL WORKS				
AW04	Floor Finishes				
AW0414	600mm x 600mm Non-Skid Ceramic Floor Tiles	268	sq.m.	₽	₽
AW03	Wall Finishes		-		
AW0205	8mm Thick Fiber Cement Board Drop Wall	55	sq.m.		
AWW10	Tempered Glass, 12mm Thick	828	sq.m.		
AW02	Ceiling Finishes		· ·		
AW0201	12mm Thick Gypsum Board with Complete Framing and Accessories	268	sq.m.		
AWP	Painting Works				
AWP0102	Elastrometric Paint Finish (Exterior Wall)	361	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AWP0105	Flat Latex Paint Finish (Ceiling)	268	sq.m.		
AWP0106	Epoxy Enamel Paint Finish (Steel Members)	779	sq.m.		
		Materials Cost AW02 - AWP		₱	
			Labor	Cost AW02 - AWP	
			Sub	total AW02 - AWP	₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AW01	Fabricated Materials				
AWD	Installation of Doors				
AWD0102	Door				
AWD010237	800mm x 2100mm 10mm Thick Tempered Glass Door on Glass Door on Powder Coated Aluminum Frame with Frame with 1.2m Stainless Steel Handrails	1	set	₽	₽
AWD03	Hardware and Accessories				
AWD0323	Floor Mounted Magnetic Door Stopper	1	set		
			Ma	aterials Cost AW01	₱
				Labor Cost AW01	
				Subtotal AW01	₱
			N	laterials Cost I-AW	₱
				Labor Cost I-AW	
				Direct Cost I-AW	₽
I-S/PW	SANITARY AND PLUMBING WORKS				
S/PW0201	Pipes and Fittings				
FPW01010	50mm Ø x 6m B.I. Pipe	4	piece	₽	₽
FPW01024	50mm Ø B.I. Elbow	4	piece		
S/PW020213	50mm Ø Check Valve	2	piece		
S/PW01	Storm Drainage System				
S/PW010103	75mm Ø PVC Standard Hub Pipe	12	piece		
S/PW010115	75mm Ø x 75mm Ø PVC Tee	6	piece		
S/PW010167	75mm Ø x 75mm Ø PVC 1/4 Bend	8	piece		
S/PW02010292	75mm Ø PVC Coupling	12	piece		
S/PW03	Fixtures & Accessories				
S/PW0604	Deck Drain, 75mm Ø, Dome-type	6	piece		
S/PW07	Pipe Hangers and Supports				
S/PW0706	Support for Horizontal Pipes Greater Than 50mm Ø, 1m Interval	36	l.m.		
S/PW0708	Downspout Brackets	6	l.m.		
MC	Miscellaneous and Consumables				
MC/G06	Hacksaw Blade	5	piece		
MC/G13	All Around Sealant	7	tube		
MC/G14	Solvent Cement, 40cc	6	can		
MC/G15	Teflon Tape	5	roll		
MC/G16	Threading Oil	1	gal		
MC/G18	Waste Cloth	4	kg		
		Mat	terials Co	st S/PW0201 - MC	₱
				st S/PW0201 - MC	
			1	al S/PW0201 - MC	₱
			1		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW09	Equipment and Accessories				
S/PW091201	Submersible Pump, 27gpm, 20ft TDH, 560W Motor	2	unit	₽	₽
			Materials Cost S/PW09		₱
			Labor Cost S/PW09		
				Subtotal S/PW09	₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
			Mat	terials Cost I-S/PW	₽
			Labor Cost I-S/PW Direct Cost I-S/PW		'
					₽
I-EW	ELECTRICAL WORKS				
EW01	Pipes and Fittings				
EW0101	20mm Ø PVC Pipe	176	piece	₱	₽
EW0112	25mm Ø IMC Pipe	16	piece		
EW0113	32mm Ø IMC Pipe	50	piece		
EW0202	20mm Ø Flexible MetalConduit	102	l.m.		
EW05001	20mm Ø PVC Elbow	96	piece		
EW05010	20mm Ø PVC Adaptor	224	piece		
EW05022	20mm Ø PVC Locknut and Bushing	224	pair		
EW05033 EW05034	25mm Ø IMC Elbow	8	piece		
EW05034 EW05043	32mm Ø IMC Elbow	18	piece		
EW05043	25mm Ø IMC Locknut and Bushing	8	pair		
EW05053	32mm Ø IMC Locknut and Bushing 25mm Ø IMC Coupling	30	pair		
EW05054	32mm Ø IMC Coupling	8 18	piece piece		
EW05119	20mm Ø Straight Connector with Locknut	130	piece		
EW0601	50mm x 100mm PVC Utility Box	32	piece		
EW0602	100mm x 100mm PVC Junction Box with Cover	80	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102b	3.5mm² THHN Wire	9	roll		
EW090105b	14.0mm² THHN Wire	1	roll		
EW090107b	30.0mm² THHN Wire	3	roll		
EW0902	THW Wires				
EW090201b	2.0mm² THW Wire	5	roll		
EW090204b	8.0mm ² THW Wire	1	roll		
EW11	Lighting Fixtures and Other Devices				
EW11120	150mm Ø Round Recessed Pinlight (Case)	64	piece		
EW11096	10W LED Bulb	64	piece		
EW11060	Emergency Light, Dual Optics	16	piece		
EW10	Wiring Devices and Other Fixtures				
EW1001	Outlet with Grounding, One-Gang	16	piece		
EW1016	Switch with Plate and Cover, Two-Gang	16	piece		
EW13 ASSY	Panel Board	_	1		
ASSY	Elevator Panel	2	assy		
	Main: 100AT, 2P, 230V, 22 KAIC,				
	240V, MCCB				
	Branches: 2 - 20AT, 2P, 230V, Bolt-on				
	1 - 70AT, 3P, 230V, Bolt-on 1 - Space				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Enclosure: NEMA 1 with Ground Terminals				
EW1301	Circuit Breaker				
EW130127	100 AT, 3P, MCCB	2	assy		
EW1303	Enclosed Circuit Breaker				
EW130308	70AT, 3P, Bolt-On	4	assy		
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	50	l.m.		
EW1602	Vertical Layout of Pipe	32	l.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC	Miscellaneous and Consumables				
MC/G	(Common Items)				
MC/G14	Solvent Cement, 400cc	2	can		
MC/G37	G.I. Tie Wire Ga. 16 (for cable pulling)	10	kg		
MC/G06	Hacksaw Blade	3	piece		
MC/G07	Masking Tape	8	roll		
MC/E	(Electrical Works)		1		
MC/E01	Electrical Tape	10	roll		
MC/E03	Pulling Lubricant	2	can		
MC/E04	Rubber Tape	5	roll		
			1		
			N	I laterials Cost I-EW	₽
				Labor Cost I-EW	•
			1	Direct Cost I-EW	₽
				2	•
I-MECH	MECHANICAL WORKS				
MECH010507	Supply and Installation of Elevator	2	unit	₽	₽
MECH01050704	Supply and Installation of Passenger Elevator		dille	1	•
0.10.1000.101	1350kg Capacity, 8 Openings / 8 Stops				
	10.4kW Motor Power, 230V / 3φ / 60Hz				
	10.4kW Wotol Fower, 250V / 5\psi / 60Hz				
			+ -	I Direct Cost I-MECH	₽
			L	Trect Cost I-MECH	P
			l N	MATERIAL COST I	₱
				LABOR COST I	
				DIRECT COST I	₽
	INTERCONNECTING PRIDGE		<u> </u>		
II OW	INTERCONNECTING BRIDGE				
II-SW	SITE WORKS			_	_
DEMV001	Chipping Works (Electrical Works)	1	cu.m.	₽	₱
DEMV004	Demolition of Existing CHB Wall	19	sq.m.		
DEMV010	Removal of Existing Door Jamb and Door including Hardware and Accessories	2	set		
DEMV013	Removal of Existing Water Closet	2	set		
DEMV015	Demolition of Existing Ceiling including Framing	10	sq.m.		
DEMV017	Removal of Existing Granite Countertop	2	sq.m.		
DEMV021	Removal of Existing Granite Countertop	32	sq.m.		
DEMV027	Removal of Existing Window	10	sq.m.		
DEMV011	Removal of Existing Viridow Removal of Existing Lavatory	2			
DEIVIVOIT	Nemoval of Existing Lavatory		set		
			Direct	Coot II SW (Labar)	₽
			Direct	Cost II-SW (Labor)	r
II-CWS	ONUL / OTDUCTUDAL WORKS		1		
	CIVIL / STRUCTURAL WORKS		1		
CWSCD4	Concrete Works		1		
CWSCR1	Ready Mix Concrete, 21MPa, 3/4" Gravel @ 28 day			_	_
CWSCR104	Suspended Slab	11	cu.m.	₱	₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSCR104	Ramp	1	cu.m.		
CWSRB	Reinforcing Steel Bars				
CWSRB40	10mm Ø Reinforcing Steel Bar including GI Tie Wire Ga. 16				
CWSRB4001	Suspended Slab	108	kg		
CWSRB4001	Ramp	33	kg		
CWSRB4001	PWD Toilet	36	kg		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSF	Formworks				
CWSF04	Suspended Slab	83	sq.m.		
CWSF04	Ramp	2	sq.m.		
CWSMA	Masonry Works				
CWSMA03	100mm CHB Laying including Mortar,	36	sq.m.		
	Reinforcement and Two-Face Platering		'		
CWSMA10	Non-Skid Plain Cement with Groove Finish	6	sq.m.		
CWSMA11	Floor Topping for Preparation of Tiles	60	sq.m.		
CWSMA17	Chemical Anchor Structural Adhesive	10	tube		
CWSMPW	Moisture Protection				
CWSMPW02	Membrane-Type Waterproofing for Roof	93	sq.m.		
CWSME	Metal Works				
CWSME07	Structural Steel				
CWSME0704	250mm x 470mm x 30mm Connector Plate	233	kg		
CWSME0704	450mm x 470mm x 30mm Connector Plate	419	kg		
CWSME0704	340mm x 500mm x 25mm Connector Plate	141	kg		
CWSME0704	Base Plate	198	kg		
CWSME0717	B1 (W 24x279)	14,856	kg		
CWSME0718	B2 (W 14x38)	717	kg		
CWSME0719	B3 (W 16x100)	3,134	kg		
CWSME0720	CB (Cantilever Beam)	1,502	kg		
CI/S	Common Items/Supplies				
CI/S0012	25mm Ø Stud Bolt	88	piece		
CI/S0013	25mm Ø Chemical Bolt Anchor	24	piece		
CI/S0014	40mm Ø Chemical Bolt Anchor	24	piece		
CWSME07	Structural Steel				
	Horizontal Frame				
CWSME0714	50mm x 50mm x 10mm Tubular	2,803	kg		
CWSME0714	75mm x 50mm x 10mm Tubular	1,402	kg		
CWSME0714	100mm x 100mm x 10mm Tubular	1,121	kg		
	Vertical Frame				
CWSME0714	75mm x 50mm x 10mm Tubular	454	kg		
CWSME0714	100mm x 100mm x 10mm Tubular	594	kg		
	Column				
CWSME0714	100mm x 50mm x 10mm Tubular	891	kg		
CWSME0714	100mm x 100mm x 10mm Tubular	357	kg		
CWSME0714	150mm x 150mm x 10mm Tubular	1,781	kg		
CWSME0714	100mm x 100mm x 10mm Tubular	1,121	kg		
CWSME0703	65mm x 65mm x 8mm Angle Bar (Gutter)	1,166	kg		
CWSME0703	50mm x 50mm x 6mm Angle Bar (Green Wall Horizontal)	337	kg		
CWSME0703	50mm x 50mm x 6mm Angle Bar (Green Wall Vertical)	70	kg		
CWSME0709	75mm x 10mm Flat Bar (Louver)	2,102	kg		
AWCM04	Wire Mesh/ Screens				
AWCM0404	Welded Wire Mesh 2" x 2" x 3mm Thick	31	kg		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSPRW0605	Roofing Works				
CWSPRW06	Stainlees Roof Gutter				
CWSPRW01001	12mm thk Tempered Glass Roof (Tinted/Bronze)	68	sq.m.		
CWSPRW0605	Stainless Steel Gutter Ga. 24	54	l.m.		
MC	Miscellaneous and Consumables				
MC/G19	Acetylene Tank Refill	20	tank		
MC/G05	Grinding Metal Disc	30	piece		
MC/G20	Concrete Drill Bit	16	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC/G23	Cut Off Blade	30	piece		
MC/G29	Oxygen Tank Refill	20	tank		
MC/G36	Welding Rod	1,082	kg		
			Mat	erials Cost II-CWS	₱
				Labor Cost II-CWS	
			I	Direct Cost II-CWS	₱
II-AW	ARCHITECTURAL WORKS				
AW04	Floor Finishes				
AW04010202	300mm x 300mm Ceramic Floor Tiles	7	sq.m.	₱	₱
AW04010208	600mm x 600mm Ceramic Floor Tiles	53	sq.m.		
AW03	Wall Finishes and Partitions				
AW0311	300mm x 600mm Ceramic Wall Tiles	36	sq.m.		
AWW10	12mm Thick Tempered Glass	57	sq.m.		
AWCM03	Partitions and Composite Panels				
AWCM0301	4mm Thick Aluminum Composite Panel with Complete Framing and Accessories	140	sq.m.		
AW02	Ceiling Finishes				
AW0201	12mm Thick Moisture Resistant Gypsum Board in Metal Framing	7	sq.m.		
AWP	Painting Works				
AWP0101	Flat Latex Paint Finish (Interior Wall)	88	sq.m.		
AWP0105	Flat Latex Paint Finish (Ceiling)	7	sq.m.		
		N	/laterials (Cost AW 02 - AWP	₱
			Labor (Cost AW 02 - AWP	
			Subt	total AW 02 - AWP	₽
AW01	Fabricated Metarials				
AW0115	Fabricated Materials 20mm Thick Granite Slab Countertop		+		
7,000110	Splashboard & Senepa	2	l.m.	₽	₽
AWD	Installation of Doors				
AWD0102	Doors				
AWD010101	1.8m x 2.4m High Double Action, Double Leaf 12mm thick Frameless Glass Door with Aluminum Mullion Aluminum Mullion Powder Coated Frame and 900mm SS Handle and 900mm Stainless Steel Handle	2	set		
AWD010140	0.8m x 2.1m Panel Door with Louver	4	set		
AWD03	Hardware and Accessories				
AWD0323	Floor Mounted Magnetic Door Stopper	5	set		
AWW	Installation of Windows		1		
AWW03	600mm x 600mm Awning Window	32	set		
AW05	Logos and Letterings				
AW0502	Quezon City Logo	2	set		
		_	+		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
			Ma	terials Cost AW 01	₱
				Labor Cost AW 01	
				Subtotal AW 01	₱
			Materials Cost II-AW		₱
				Labor Cost II-AW	
				Direct Cost II-AW	₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
II-S/PW	SANITARY AND PLUMBING WORKS				
S/PW01	Sewer Line System				
S/PW010102	50mm Ø PVC Standard Hub Pipe	6	piece	₽	₽
S/PW010103	75mm Ø PVC Standard Hub Pipe	4	piece		
S/PW010111	50mm Ø PVC P-Trap	4	piece		
S/PW010114	50mm Ø x 50mm Ø PVC 1/4 Bend	6	piece		
S/PW010115	75mm Ø x 75mm Ø PVC 1/4 Bend	4	piece		
S/PW010121	75mm Ø x 75mm Ø PVC 1/8 Bend	2	piece		
S/PW010128	75mm Ø x 75mm Ø PVC Wye	2	piece		
S/PW010131	100mm Ø x 75mm Ø PVC Wye	2	piece		
S/PW010163	50mm Ø x 50mm Ø PVC Tee	4	piece		
S/PW010164	75mm Ø x 50mm Ø PVC Tee	4	piece		
S/PW010167	100mm Ø x 50mm Ø PVC Tee	2	piece		
S/PW010183	75mm Ø PVC Cleanout	4	piece		
S/PW02010290	50mm Ø PVC Coupling	6	piece		
S/PW02010292	75mm Ø PVC Coupling	4	piece		
S/PW01	Storm Drainage System		'		
S/PW010102	50mm Ø PVC Standard Hub Pipe	4	piece		
S/PW010103	75mm Ø PVC Standard Hub Pipe	40	piece		
S/PW010111	50mm Ø PVC P-Trap	8	piece		
S/PW010115	75mm Ø x 75mm Ø PVC 1/4 Bend	40	piece		
S/PW010164	75mm Ø x 50mm Ø PVC Tee	8	piece		
S/PW010166	75mm Ø x 75mm Ø PVC Tee	8	piece		
S/PW02010290	50mm Ø PVC Coupling	4	piece		
S/PW02010292	75mm Ø PVC Coupling	40	piece		
S/PW02	Water Line System		F 12.2.2		
S/PW02010201	20mm Ø PPR Pipe, PN 16	12	piece		
S/PW02010203	32mm Ø PPR Pipe, PN 16	4	piece		
S/PW02010211	20mm Ø x 20mm Ø PPR Tee Equal	2	piece		
S/PW02010213	32mm Ø x 32mm Ø PPR Tee Equal	2	piece		
S/PW02010221	32mm Ø x 20mm Ø PPR Tee Unequal	2	piece		
S/PW02010240	32mm Ø x 20mm Ø PPR Reducer	2	piece		
S/PW02010259	32mm Ø PPR 90° Elbow	2	piece		
S/PW02010267	20mm Ø PPR Female Threaded Adaptor	4	piece		
S/PW02010274	20mm Ø PPR End Cap	4	piece		
S/PW02010277	20mm Ø PPR Union Patente	2	piece		
S/PW02010279	32mm Ø PPR Union Patente	2	piece		
S/PW02010286	20mm Ø PPR Coupling	12	piece		
S/PW02010288	32mm Ø PPR Coupling	4	piece		
S/PW02010296	20mm Ø PPR Male Adaptor	4	piece		
S/PW02010298	32mm Ø PPR Male Adaptor	2	piece		
	·		Piece		
	* *	2	niece		
			•		
			piece		
S/PW0202 S/PW020201 S/PW020203 S/PW03	Valves and Appurtenances 20mm Ø PPR Gate Valve 32mm Ø PPR Gate Valve Fixtures and Accessories	2 2	piece piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW03	Grab Bar for PWD	4	l.m.		
S/PW0301	Bidet with Accessories, Stainless Heavy Duty	2	piece		
S/PW0308	Lavatory, Counter Top	2	unit		
S/PW0310	Lavatory Faucet, Lever Type (Water Efficient)	2	set		
S/PW0327	Water Closet, Tank Type (Water Efficient)	2	unit		
S/PW04	Comfort Roof Accessories				
S/PW0407	Facial Mirror	21.5	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW05	Plumbing Fixtures, Fittings and Accessories				
S/PW0501	Angle Valve, One-way, Stainless Steel	2	piece		
S/PW0502	Angle Valve, Two-way, Stainless Steel	2	piece		
S/PW0503	Flexible Hose, Stainless Steel	4	piece		
S/PW06	Drains		<u> </u>		
S/PW0601	Floor Drain, 100mm Ø, Flat-type	10	piece		
S/PW0607	Roof Drain, 75mm Ø, Dome-type	12	piece		
S/PW07	Pipe Hangers and Supports		<u> </u>		
S/PW0706	Support for Horizontal Pipes Greater Than 50mm Ø, 1m Interval	162	l.m.		
S/PW0708	Downspout Brackets	126	l.m.		
MC	Miscellaneous and Consumables				
MC/G06	Hacksaw Blade	6	piece		
MC/G13	All Around Sealant	6	tube		
MC/G14	Solvent Cement, 400cc	10	can		
MC/G15	Teflon Tape	10	roll		
MC/G18	Waste Cloth	6	kg		
			Mate	erials Cost II-S/PW	₱
			L	abor Cost II-S/PW	
				Direct Cost II-S/PW	₱
II-EW	ELECTRICAL WORKS				
EW01	Pipes and Fittings				
EW0101	20mm Ø PVC Pipe	40	piece	₱	₱
EW05001	20mm Ø PVC Elbow	12	piece		
EW05010	20mm Ø PVC Adaptor	40	piece		
EW05022	20mm Ø PVC Locknut and Bushing	40	pair		
EW0601	50mm x 100mm PVC Utility Box	6	piece		
EW0602	100mm x 100mm PVC Junction Box with Cover	14	piece		
EW09	Wire and Cables				
EW0901	THHN Wires				
EW090102b	3.5mm² THHN Wire	2	roll		
EW090201b	THW Wires				
EW090201b	2.0mm ² THW Wire	1	roll		
EW10	Wiring Devices and Other Fixtures				
EW1001	Switch with Plate & Cover, One-Gang	4	piece		
EW1016	Switch with Plate & Cover,	2	piece		
	Three-Way, One-Gang				
EW11	Lighting Fixtures				
EW11094	10W LED Bulb	8	piece		
EW11098	18W LED Bulb	6	piece		
EW11118	150mm Ø Round Surfaced Mounted Pinlight (case)	6	piece		
EW11120	150mm Ø Round Recessed Pinlight (case)	8	piece		
EW16	Pipe Hangers and Supports				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW1601	Horizontal Layout of Pipe	44	l.m.		
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC/G	(Common Items)				
MC/G06	Hacksaw Blade	2	piece		
MC/G07	Masking Tape	3	roll		
MC/G14	Solvent Cement, 400cc	1	can		
MC/G37	G.I. Tie Wire Ga. 16 (for cable pulling)	5	kg		
MC/E	(Electric Works)				
MC/E01	Electrical Tape	8	roll		
MC/E03	Pulling Lubricant	1	can		
MC/E04	Rubber Tape	3	roll		
			Ma	aterials Cost II-EW	₱
				Labor Cost II-EW	
				Direct Cost II-EW	₱
			MATERIAL COST II		₱
			LABORT COST II		
			DIRECT COST II		₱
		_			_

SUMMARY

ITEM CODE		WORK DESCRIPTION AND SCOPE OF WORKS	AMOUNT
OGR	OTHER GE	ENERAL REQUIREMENTS	P
		TOTAL DIRECT COST A	P
GR I II	SCENIC EI	REQUIREMENTS LEVATOR NNECTING BRIDGE	₽
Note:		TOTAL DIRECT COST B Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit	₽
Strictly enforce He Protocols relative to applicable DPWH		TOTAL ESTIMATED COST B	
Memorandum.		TOTAL ESTIMATED COST A TOTAL ESTIMATED COST B	₽
		TOTAL ESTIMATED COST	₽
		VAT	₽

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS			UNIT	UNIT COST	TOTAL COST
		TOTAL APPRO	VED BUDG	ET FOR	THE CONTRACT	₽

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; and registration for the type and cost of the contract to be bid; and 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;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

¹ 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:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) 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.
- 3. 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;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared 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.
- 2. 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:
 - b. 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. Winning bidder agrees that 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.

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]

<u>Acknowledgment</u>

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

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

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

PROJECT TITLE					CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR,	TOTAL	DATE OF	TOTAL CONTRACT			
(Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	CONTRACT VALUE AT AWARD	COMPLETION or ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDING WORKS (IN PHP)
						-					
									TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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1 age	

LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER NAME OF CONTRACTOR: PROJECT TITLE: _____ ROLE OF BIDDER IN THE NAME AND ADDRESS CONTRACT PRICE MAJOR SCOPE OF WORKS & DATE DATE OF SCHEDULED **CONTRACT SOLE** PROJECT TITLE & EXACT LOCATION STARTED OF PROJECT OWNER (PHP) AS AWARDED COMPLETION **CONTRACTOR / SUB-**CONTRACTOR/PARTNER IN A TOTAL AMOUNT OF CONTRACT (Php)

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, SUBCONTRACTOR, PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETIONTIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

D	
Page	of

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:			
PROJECT TITLE:			

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

D		
Page	of	

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.

Dago	o.f	
Page	of	

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		PHP	

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

REPUBLIC OF THE PHILIPPINES)	
) S. S.	
AFFIDAVIT OF UNDER	RTAKING
I,, of legal REPRESENTATIVE]	age, Filipino,
with office address at	after
having been duly sworn to in accordance with law, hereby	voluntary depose and state:
That I am duly authorized representative of the _I undertaking as evidenced by Secretary's Certificate	Name of Bidderto execute this and Board Resolution.
That[Name of Bidder]bidding for the (Nam	ne of Project)
That relative to the aforementioned Project, the[that the equipment to be use and the key personnel will only perform to the said project until its comple	to be assign shall exclusively be used and
That I am executing this affidavit to attest to the trul with the submission of the technical requirements for	th of the foregoing and in compliance or the public bidding of the said project.
IN WITNESS HEREOF, I have hereunto signed of	d my name below this day
AFFIANT FURTHER SAYETH NAUGHT.	
	Affiant
SUBSCRIBED AND SWORN TO BEFORE ME this	s day of
affiant exhibiting to me his/heron	issued at
Doc. No. ;	
Page No. ;	
Book No. ;	
Series of 2020	Notary Public

