

# **PHILIPPINE BIDDING DOCUMENTS**

# **Procurement of INFRASTRUCTURE PROJECTS**

Government of the Republic of the Philippines

**PROPOSED BIKE LANE AND SIDEWALK IMPROVEMENT  
AT ELLIPTICAL ROAD (PHASE 2)**

**Project number:  
24-00038**

**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.



February 28, 2024

## Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
<b><u>Building – Small B</u></b>							
1	24-00020	Proposed Construction of School Covered Court at President Corazon C. Aquino Elementary School at Barangay Batasan Hills	Batasan Hills	23,192,740.97	360	Engineering Department	Special Education Fund (Local School Board)
2	24-00021	Proposed Waterproofing and Rehabilitation of Decks at Quezon City Experience Museum in Quezon Memorial Circle	Central	26,271,089.46	120	Engineering Department	Engineering
3	24-00022	Proposed Rehabilitation of Various Building at Alejandro Roces Sr. Science and Technology High School in Barangay Obrero	Obrero	27,666,956.44	120	Engineering Department	Special Education Fund (Local School Board)
<b><u>Building – Medium A</u></b>							
4	24-00023	Proposed Rehabilitation of Gymnasium at Quezon City Science High School in Barangay Sto. Cristo	Sto. Cristo	30,657,831.81	60	Engineering Department	Special Education Fund (Local School Board)
5	24-00024	Proposed Construction of Two (2) Storey Multi-Purpose Building at St. Bartholomew Street, Sacred Heart Village I, Barangay Pasong Putik Proper	Pasong Putik Proper	33,700,369.09	240	Engineering Department	20% Community Development Fund
6	24-00025	Proposed Construction of Three (3) Storey Fire Sub-Station at Barangay Masambong	Masambong	47,186,969.83	300	Engineering Department	Engineering
7	24-00026	Proposed Construction of FUTSAL Court at Quezon Memorial Circle	Central	51,983,774.07	360	Engineering Department	Engineering
8	24-00027	Proposed Construction of Three (3) Storey Multi-Purpose Building (Parking, Offices and Basketball Court) at Barangay Pasong Putik Proper	Pasong Putik Proper	84,991,234.43	420	Engineering Department	20% Community Development Fund
<b><u>Building – Large A</u></b>							
9	24-00028	Proposed Construction of Housing 32-Balingasa High Rise Housing (Phase 2) at Barangay Balingasa	Balingasa	409,877,594.86	720	City Architect	2023 AB - Housing Community Development and Resettlement Department



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 **05 March 2024 (Tuesday)** 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 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference<sup>1</sup> on **March 13, 2024 at 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 854 9489 0133**

**Password: 273320**

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **April 04, 2024 – 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**.

<sup>1</sup> 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.

9. Bid opening shall be on April 04, 2024 - 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 810 3646 5257**

**Password: 201522**

10. The *Quezon City Local Government* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

**ATTY. DOMINIC B. GARCIA**

OIC, Procurement Department

2<sup>nd</sup> Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

Tel. No. (02)8988-4242 loc. 8506/8710

Email Add: [bacinfra.procurement@quezoncity.gov.ph](mailto:bacinfra.procurement@quezoncity.gov.ph)

Website: [www.quezoncity.gov.ph](http://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. LUCILLE H. CHUA, fuap, piep**  
Chairperson, BAC-Infra and Consultancy

## ***Section II. Instructions to Bidders***

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

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



## 1. Scope of Bid

The Procuring Entity, **Quezon City Government** invites Bids for the **PROPOSED BIKE LANE AND SIDEWALK IMPROVEMENT AT ELLIPTICAL ROAD (PHASE 2)**, with Project Identification Number **24-00038**.

*[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 **Seventy Six Million Five Hundred Sixty Seven Thousand Thirty Pesos and 21/100 Cts. (P 76,567,030.21)**.

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 “P” 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 **March 13, 2024 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our Virtual Conference (**ZOOM APP**) Meeting ID: 854 9489 0133 Password: 273320

## **9. Clarification and Amendment of Bidding Documents**

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

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

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their

complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

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

## **11. Documents Comprising the Bid: Financial Component**

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## **12. Alternative Bids**

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

## **13. Bid Prices**

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

## **14. Bid and Payment Currencies**

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. *Payment of the contract price shall be made in:*
  - a. Philippine Pesos.

## **15. Bid Security**

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security **in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

## **16. Sealing and Marking of Bids**

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

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

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

## **17. Deadline for Submission of Bids**

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 5 of the **IB**.

## **18. Opening and Preliminary Examination of Bids**

- 18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

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

## **19. Detailed Evaluation and Comparison of Bids**

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC

shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

## **20. Post Qualification**

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

## **21. Signing of the Contract**

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

## ***Section III. Bid Data Sheet***

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

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

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

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

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

# Bid Data Sheet

ITB Clause																																					
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.																																				
7.1	<b>Subcontracting is not allowed.</b>																																				
10.3	<i>No additional contractor license or permit is required</i>  <b><i>In addition, eligible bidders shall qualify or comply with the following:</i></b>  1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)  Type  <b>Roads - Medium A</b>																																				
10.4	<table><tr><td colspan="4">The minimum work experience requirements for key personnel are the following:</td></tr><tr><td>Qty.</td><td>Key Personnel</td><td>General Experience</td><td>Relevant Experience</td></tr><tr><td>1</td><td>Project Manager</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Project-In-Charge (Project Engineer)</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>General Foreman</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Trade Engineers/Leadman for Civil Works</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Trade Engineers/Leadman for Electrical Works</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Safety Officer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>DPWH Duly Accredited Materials Engineer</td><td>3 years</td><td>3 years</td></tr></table> <b><i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i></b>	The minimum work experience requirements for key personnel are the following:				Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Manager	3 years	3 years	1	Project-In-Charge (Project Engineer)	3 years	3 years	1	General Foreman	3 years	3 years	1	Trade Engineers/Leadman for Civil Works	3 years	3 years	1	Trade Engineers/Leadman for Electrical Works	3 years	3 years	1	Safety Officer	3 years	3 years	1	DPWH Duly Accredited Materials Engineer	3 years	3 years
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10.5	<table><tr><td colspan="3">The minimum major equipment requirements are the following:</td></tr><tr><td>Equipment</td><td>Capacity</td><td>Number of Units</td></tr><tr><td>Backhoe</td><td>0.80 cu.m.</td><td>2</td></tr><tr><td>Dump Truck</td><td>12 yd<sup>3</sup></td><td>2</td></tr><tr><td>Backhoe with Breaker</td><td>0.80 cu.m.</td><td>1</td></tr><tr><td>Plate Compactor</td><td></td><td>2</td></tr><tr><td>Dump Truck</td><td>18 cu.m. capacity</td><td>1</td></tr><tr><td>Concrete Vibrator</td><td></td><td>6</td></tr><tr><td>Pumpcrete</td><td></td><td>2</td></tr><tr><td>Welding Machine</td><td></td><td>7</td></tr><tr><td>Cutting Outfit</td><td></td><td>8</td></tr><tr><td>Cargo Truck/Delivery Truck</td><td>2-5 mt</td><td>3</td></tr></table>	The minimum major equipment requirements are the following:			Equipment	Capacity	Number of Units	Backhoe	0.80 cu.m.	2	Dump Truck	12 yd <sup>3</sup>	2	Backhoe with Breaker	0.80 cu.m.	1	Plate Compactor		2	Dump Truck	18 cu.m. capacity	1	Concrete Vibrator		6	Pumpcrete		2	Welding Machine		7	Cutting Outfit		8	Cargo Truck/Delivery Truck	2-5 mt	3
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Cargo Truck/Delivery Truck	2-5 mt	3																																			

	<p>Applicator Machine 3</p> <p>Kneading Machine 3</p> <p>Bar Cutter 4</p> <p>Bar Bender 4</p> <p><i>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.</i></p>
12	[Insert Value Engineering clause if allowed.]
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:</p> <p>a) The amount of not less than Php 1,531,340.60 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</p> <p>b) The amount of not less than Php 3,828,351.51 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.</p>
19.2	<b>Partial bid is not allowed.</b> The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	<p><b>Additional Contract Documents relevant to the Project as required:</b></p> <p><b>1. Construction Schedule and S-curve,</b></p> <p><b>2. Manpower Schedule,</b></p> <p><b>3. Construction Methods,</b></p> <p><b>4. Equipment Utilization Schedule,</b></p> <p><b>5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.</b></p>

## ***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 180 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: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[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:]</i> Fifteen (15) years.</p> <p><i>[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:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
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	<p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which "as built" drawings are required as part of final payment</p>
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*  
**DEPARTMENT OF ENGINEERING**  
Civic Center Building B, Quezon City Hall Compound, Elliptical Road  
Olimpin, Central 1100 Quezon City  
Telephone: +63 2 8988 4242  
E-mail address: [engineering@quezoncity.gov.ph](mailto:engineering@quezoncity.gov.ph)



NAME OF PROJECT **PROPOSED BIKE LANE AND SIDEWALK IMPROVEMENT AT ELLIPTICAL ROAD (PHASE 2)**

LOCATION **VARIOUS BARANGAYS (VASRA, PROJECT 6, CENTRAL AND OLD CAPITOL SITE) QUEZON CITY**

### **TECHNICAL SPECIFICATIONS**

**GENERAL NOTES** The above-mentioned project is subject to the Standards Specifications listed herein where applicable.

**1. STANDARD SPECIFICATIONS**

All works shall comply with DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES 2013 Edition supplemental specification pertaining to this project and provision of the contract.

**2. DIMENSIONS**

Unless otherwise specified, all dimensions which include stationing, distances between control points and elevations are measured in meters.

**3. ALIGNMENT AND GRADE**

No alteration or change in alignment and grade shall be made unless existing field condition so warrant and only upon the written order by the Engineer-In-charge and approved by the proper authority concerned.

**4. REMOVAL OF EXISTING STRUCTURES AND OBSTRUCTIONS**

- Existing structures affected in this project shall be done with the required tools and equipment. All debris shall be immediately disposed
- Portion of existing utilities such as MWSS Pipelines, PLDT Posts, MERALCO Posts, etc that may cause obstructions to the construction of this project shall be relocated by the entity or owner concerned. Extreme precaution shall be exercised. damaged thereof shall be the account of the contractor

**5. SUB-GRADE, SUB BASE AND BASE.**

- Unsuitable sub-grade material shall be excavated below the ground surface to the required width and depth. The area to be excavated shall be backfilled with approved material.
- No embankment material shall be placed until the foundation is stable.
- All aggregate sub-base and base course shall be spread, laid and compacted in accordance with the required thickness and proposed elevation.

**6. CONCRETE AND CONCRETE PAVEMENT**

- All concrete to be used in this project shall be Class "A" unless otherwise indicated
- No Admixtures or additives will be allowed for all concrete works without prior approval by the City Engineer or his duly representative.
- Traffic shall be required to reduced speed when passing the vicinity of the newly laid concrete pavement until such time that it has obtained the required strength.

**7. ASPHALT PAVEMENT**

- Prepared or Existing Base shall be thoroughly cleaned and free from dirt by utilizing a push broom as required. Emulsified asphalt (SS1) shall be used and spread evenly on the surface prepared by utilizing an asphalt distributor as required
- Asphalt Plant Hot Mix shall be laid evenly by utilizing an asphalt paver to a thickness as required in the plan or program of work.

**8. REINFORCING STEEL BARS**

Reinforcing steel shall conform to AASHTO M31 (ASTM615), Grade 40 for Bars 16 mm. diameter and smaller (40,000 psi),  $f_y = 275$  MPa, and for Bars greater than 16 mm Diam., Grade 60 (60,000 psi)  $f_y = 414$  MPa.

**9. DRAINAGE**

- a. Exact location, slope, outfalls and invert elevation of drainage structures shall be checked in the field by the Engineer-In-Charge, minor adjustment maybe made by the approval of the Engineer to suit actual field condition.
- b. Existing drainage structures or part thereof removed by the contractor that are still serviceable shall be turned over to the Government and shall be deposited at a place within the project site designated by the Engineer-In-Charge without any extra compensation. Extreme precaution shall be exercised by the contractor not to damage these materials during the removal and handling.

**10. CONSTRUCTION STAKES**

- a. The contractor will be responsible for the true and proper setting out of the work or improvement and for correctness of position, level slope and continuous profile grade in road work. He will set construction stakes, establishing lines, slope and continuous profile work and other line and benchmark for bridge work.

Grade in road protective and necessary structures and appurtenances culvert work, as are deemed necessary from the reference data to be furnished by the Engineer-In-Charge in writing.

- b. The checking of construction stakes by the Engineer-In-Charge shall not in any way relieve the contractor of his responsibility for the correctness thereof and the contractor shall carefully protect preserve all benchmark, pegs and other things used in setting out of the work.

**11. BARRICADES**

- a. Barricades shall be in accordance with the plans or as specified by the Engineer-In-Charge on-site.

**REMOVAL OF EXISTING STRUCTURES**  
**DESCRIPTION**

This item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and pits.

**ROADWAY EXCAVATION**  
**DESCRIPTION**

Roadway excavation will include excavation and grading for roadways, parking areas, intersections, approaches, slope rounding, benching, waterways and ditches; removal of unsuitable material from the roadbed and beneath embankment areas; and excavating selected material found in the roadway as ordered by the Engineer for specific use in the improvement.

**EXCAVATION FOR STRUCTURES**  
**DESCRIPTION**

This item shall consist of the necessary excavation for reinforced concrete pipes, lined canal, box culverts and other structures not otherwise provided for in the Specifications. Except as otherwise provided for pipe culverts, the backfilling of completed structures and the disposal of all excavated materials shall be in accordance with this specification and in reasonably close conformity with the Plans or as established by the Engineer-In-Charge. This item shall include necessary diverting of live streams, bailing, pumping, draining, sheeting, bracing, and the necessary construction of cribs and cofferdams, and furnishing the materials therefore, and the subsequent removal of cribs and cofferdams and the placing of all necessary backfill. It shall also include the furnishing and placing of approved foundation fill material to replace

unsuitable material encountered below the foundation elevation of structures.

#### **COMMON BORROW DESCRIPTION**

This item shall consist of the construction of embankment in accordance with this Specification and in conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer-In-Charge.

Construction of Embankment shall consist of constructing roadway embankments, including preparation of the areas upon which they are to be placed; the construction of dikes within or adjacent to the roadway; the placing and compacting of approved material within roadway areas where unsuitable material has been removed; and the placing and compacting of embankment material in holes, pits, and other depressions within the roadway area.

Embankments and backfills shall contain no muck, peat, sod, roots or other deleterious matter. Rocks, broken concrete or other solid, bulky materials shall not be placed in embankment areas where piling is to be placed or driven.

#### **MATERIAL REQUIREMENTS**

Embankments shall be constructed of suitable materials, in consonance with the following definitions:

1. Suitable Material - Material which is acceptable in accordance with the Contract and which can be compacted in the manner specified in this item. It can be common material or rock.
2. Unsuitable Material - Material other than suitable materials such as:
  - a. Materials containing detrimental quantities of organic materials, such as grass, roots and sewerage.
  - b. Organic soils such as peat and muck.
  - c. Soils with liquid limit exceeding 80 and/or plasticity index exceeding 55.
  - d. Soils with a natural water content exceeding 100%
  - e. Soils with very low natural density,  $800 \text{ kg/m}^3$  or lower
  - f. Soils that cannot be properly compacted as determined by the Engineer-In-Charge.

#### **PORTLAND CEMENT CONCRETE PAVEMENT DESCRIPTION**

This item shall consist of pavement of Portland Cement Concrete with or without reinforcement, constructed on the prepared base in accordance with this Specification and in conformity with lines, grades, thickness and typical cross-section shown on the Plans. Compressive strength for concrete mix to be used shall not be less than 4,000 psi.

#### **MATERIAL REQUIREMENTS**

##### **PORTLAND CEMENT**

It shall conform to the applicable requirements of Item 700, Hydraulic Cement. Only Type I Portland Cement shall be used unless otherwise provided for in the Special Provisions. Different brands or the same brands from different mills shall not be mixed nor shall they be used alternately unless the mix is approved by the Engineer. However, the use of Portland Pozzolana Cement Type IP meeting the requirements of AASHTO M 240/ASTM C 695, Specifications for Blended Hydraulic Cement shall be allowed, provided that trial mixes shall be done and that the mixes meet the concrete strength requirements, the AASHTO/ASTM provisions pertinent to the use of Portland Pozzolana Type IP shall be adopted. Cement which for any reason has become partially set or which contains lumps of caked cement shall be rejected. Samples of cement shall be obtained in accordance with AASHTO T 127.

##### **FINE AGGREGATES**

It shall consist of natural sand, stone screenings or other inert materials with similar characteristics, or combinations thereof, having hard, strong and durable particles. Fine aggregate from different sources of supply shall not be mixed or stored in the same pile nor used alternately in the same class of concrete.

without the approval of the Engineer.

It shall not contain more than three (3) mass percent of material passing the 0.075 mm (No. 200 sieve) by washing nor more than one (1) mass percent each of clay lumps or shale. The use of beach sand will not be allowed without the approval of the Engineer.

If the fine aggregate is subjected to five (5) cycles of the sodium sulfate soundness test, the weighted loss shall not exceed 10 mass percent.

The fine aggregate shall be free from injurious amounts of organic impurities. If subjected to the colorimetric test for organic impurities and a color darker than the standard is produced, it shall be rejected. However, when tested for the effect of organic impurities of strength of mortar by AASHTO T 71, the fine aggregate may be used if the relative strength at 7 and 28 days is not less than 95 mass percent.

The fine aggregate shall be well-graded from coarse to fine and shall conform to Table 311.1

Table 311.1 – Grading Requirements for Fine Aggregate

Sieve Designation	Mass Percent Passing
9.5 mm (3/8 in.)	100
4.75 mm (No. 4)	95 – 100
2.36 mm (No. 8)	-
1.18 mm (No. 16)	45 – 80
0.600 mm (No. 30)	-
0.300 mm (No. 60)	5 – 30
0.150 mm (No. 100)	10

#### COARSE AGGREGATES

It shall consist of crushed stone, gravel, blast furnace slag, or other approved inert materials of similar characteristics, or combinations thereof, having hard, strong, durable pieces and free from any adherent coatings.

It shall contain not more than one (1) mass percent of material passing the 0.075 mm (No. 200) sieve, not more than 0.25 mass percent of clay lumps, nor more than 3.5 mass percent of soft fragments.

If the coarse aggregate is subjected to five (5) cycles of the sodium sulfate soundness test, the weighted loss shall not exceed 12 mass percent.

It shall have a mass percent of wear not exceeding 40 when tested by AASHTO T 96.

If the slag is used, its density shall not be less than 1120 kg/m<sup>3</sup> (70 lb./cu. ft.). The gradation of the coarse aggregate shall conform to Table 311.2.

Only one grading specification shall be used from any one source.

Table 311.2 – Grading Requirements for Coarse Aggregate

Sieve Designation		Mass Percent Passing		
Standard (mm)	Alternate U.S. Standard	Grading A	Grading B	Grading C
75	3 in.	100	-	-
63	2 ½ in.	90 – 100	100	100
50	2 in.	- 90 – 100	95 – 100 37.5	1 – ½ in.
	25 – 60	35 – 70	-	
25	1 in.	- 0 – 15	35 – 70 19.0	¾ in.
	0 – 10	-	-	
12.5	½ in.	0 – 5	0-5	10 – 30
4.75	No. 4	-	-	0 – 5

#### WATER

Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product. Water will be tested in accordance with and shall meet the requirements of Item 714, Water. Water which is drinkable may be used without test. Where the source of water is shallow, the intake shall be so enclosed as to exclude silt, mud, grass or other foreign materials.

#### REINFORCING STEEL

It shall conform to the requirements of Item 404, Reinforcing Steel. Dowels and tie bars shall conform to the requirements of AASHTO M 31 or M 42, except that rail steel shall not be used for tie bars that are to be bent and straightened during construction. Tie bars shall be deformed bars. Dowels shall be plain round bars. Before delivery to the site of work, one-half of the length of each dowel shall be painted with one coat of approved lead or tar paint. The sleeves for dowel bars shall be metal of approved design to cover 50 mm (2 inches), plus or minus 5 mm (1/4 inch) of the dowel, with a closed end, and with a suitable stop to hold the end of the sleeve at least 25 mm (1 inch) from the end of the dowel. Sleeves shall be of such design that they do not collapse during construction.

#### JOINT FILLERS

Poured joint fillers shall be mixed asphalt and mineral or rubber filler conforming to the applicable requirements of Item 705, Joint Materials.

Preformed joint filler shall conform to the applicable requirements of Item 705. It shall be punched to admit the dowels where called for in the Plans. The filler for each joint shall be furnished in a single piece for the full depth and width required for the joint.

#### ADMIXTURES

Air-entraining admixture shall conform to the requirements of AASHTO M 154 Chemical admixtures, if specified or permitted, shall conform to the requirements of AASHTO M 194 Fly Ash, if specified or permitted as a mineral admixture and as 20% partial replacement of Portland Cement in concrete mix shall conform to the requirements of ASTM C 618. Admixture should be added only to the concrete mix to produce some desired modifications to the properties of concrete where necessary, but not as partial replacement of cement.

#### CURING MATERIALS

Curing materials shall conform to the following requirements as specified,

- a) Burlap cloth - AASHTO M 182
  - b) Liquid membrane forming compounds - AASHTO M 148
  - c) Sheeting (film) materials - AASHTO M 171
- Cotton mats and water-proof paper can be used.

#### CALCIUM CHLORIDE/CALCIUM NITRATE

It shall conform to AASHTO M 144, if specified or permitted by the Engineer-in-charge, as accelerator.

#### STORAGE OF CEMENT AND AGGREGATE

All cement shall be stored, immediately upon delivery at the Site, in weatherproof building which will protect the cement from dampness. The floor shall be raised from the ground. The buildings shall be placed in locations approved by the Engineer. Provisions for storage shall be ample, and the shipments of cement as received shall be separately stored in such a manner as to allow the earliest deliveries to be used first and to provide easy access for identification and inspection of each shipment. Storage buildings shall have capacity for storage of a sufficient quantity of cement to allow sampling at least twelve (12) days before the cement is to be used. Bulk cement, if used, shall be transferred to elevated air tight and weatherproof bins. Stored cement shall meet the test requirements at any time after storage when retest is ordered by the Engineer-in-charge. At the time of use, all cement shall be free-flowing and free of lumps. The handling and storing of concrete aggregates shall be such as to prevent segregation or the inclusion of foreign materials. The Engineer may require that aggregates be stored on separate platforms at satisfactory locations. In order to secure greater uniformity of concrete mix, the Engineer may require that the coarse aggregate be separated into two or more sizes. Different sizes of aggregate shall be stored in separate bins or in separate stockpiles sufficiently removed from each other to prevent the material at the edges of the piles from becoming intermixed.

#### PROPORTIONING, CONSISTENCY AND STRENGTH OF CONCRETE

The Contractor shall prepare the design mix based on the absolute volume method as outlined in the American Concrete Institute (ACI) Standard 211.1, "Recommended Practice for Selecting Proportions for Normal and Heavyweight Concrete". It is the intent of this Specification to require at least 364 kg of cement per cubic meter of concrete to meet the minimum strength requirements. The Engineer shall determine from laboratory tests of the materials to be used, the cement content and the proportions of aggregate and water that will produce workable concrete having a slump of between 40 and 75 mm (1-1/2 and 3 inches) if not vibrated or between 10 and 40 mm (1/2 and 1-1/2 inches) if vibrated, and a flexural strength of not less than 3.8 MPa (550 psi) when tested by the third-point method or 4.5 MPa (650 psi) when tested by the mid-point method at fourteen (14) days in accordance with AASHTO T97 and T177.

respectively, or a compressive strength of 24.1 MPa (3500 psi) for cores taken at fourteen (14) days and tested in accordance with AASHTO T24. Slump shall be determined using AASHTO T 119. The designer shall consider the use of lean concrete (econocrete) mixtures using local materials or specifically modified conventional concrete mixes in base course and in the lower course composite, monolithic concrete pavements using a minimum of 75 mm (3 inches) of conventional concrete as the surface course. The mix design shall be submitted to the Engineer for approval and shall be accompanied with certified test data from an approved laboratory demonstrating the adequacy of the mix design. A change in the source of materials during the progress of work may necessitate a new design mix.

## STRUCTURAL CONCRETE DESCRIPTION

This item shall consist of furnishing, bending, placing and finishing concrete in all structures except pavements in accordance with this Specification and conforming to the lines, grades, and dimensions shown on the Plans. Concrete shall consist of a mixture of Portland Cement, fine aggregate, coarse aggregate, admixture when specified, and water mixed in the proportions specified or approved by the Engineer-In-Charge.

## MATERIAL REQUIREMENTS

### PORTLAND CEMENT

it shall conform to all the requirements in Portland Cement section.

### FINE AGGREGATES

it shall conform to all the requirements in Fine Aggregates section.

### COARSE AGGREGATES

it shall conform to all the requirements in Fine Aggregates section.  
Except that gradation shall conform to Table 405.1.

Table 405.1 – Grading Requirements for Coarse Aggregate

Sieve Designation		Mass Percent Passing				
Standard, mm	Alternate US Standard	Class A	Class B	Class C	Class D	Class Seal
63	2 - 1/2"		100			
50	2"	100	95 - 100			100
37.5	1-1/2"	95 - 100	-		100	95 - 100
25	1"	-	35 - 70		-12.5	1/2" -
19	3/4"	35 - 70	- 100	95 - 100		
	10 - 30	90 - 100	-25 - 60			No. 4
9.5	3/8"	10 - 30	-40 - 70	20 - 55	-4.75	
	0 - 5	0 - 5	0 - 15*	0 - 10*	0 - 10*	

The measured cement content shall be within plus (+) or minus (-) 2 mass percent of the design cement content.

### WATER

it shall conform to all the requirements in water section.

### REINFORCING STEEL

Reinforcing steel shall conform to the requirements of the following specifications:

(For concrete reinforcement)

Deformed Billet-Steel Bars	AASHTO M 31 (ASTM A615)
Deformed Steel Wire	AASHTO M 225 (ASTM A 496)
Welded Steel Wire Fabric	AASHTO M 55 (ASTM A 185)

Cold-Drawn Steel Wire	AASHTO M 32 (ASTM A 82)
Fabricated Steel Bar or Rod Mats	AASHTO M 54 (ASTM A 184)
Welded Deformed Steel Wire Fabric	AASHTO M 221 (ASTM A 497)
Plastic Coated Dowel Bars	AASHTO M 254
Type A Low Alloy Steel Deformed Bars	ASTM A 206

Bar reinforcement for concrete structures, except No. 2 bars shall be deformed in accordance with AASHTO M 42, M 31 and M 53 for Nos. 3 through 11. Dowel and tie bars shall conform to the requirements of AASHTO M 31 or AASHTO M 42 except that rail steel shall not be used for tie bars that are to be bent and re-straightened during construction. Tie bars shall be deformed bars. Dowel bars shall be plain round bars. They shall be free from burring or other deformation restricting slippage in the concrete. Before delivery to the site of the work, a minimum of one half (1/2) the length of each dowel bar shall be painted with one coat of approved lead or tar paint. The sleeves for dowel bars shall be metal of an approved design to cover 50 mm (2 inches), plus or minus 6.3 mm of the dowel, with a closed end and with a suitable stop to hold the end of the sleeve at least 25 mm (1 inch) from the end of the dowel bar. Sleeves shall be of such design that they do not collapse during construction. Plastic coated dowel bar conforming to AASHTO M 254 may be used.

#### ADMIXTURES

Admixtures shall conform to the requirements in admixture section.

#### CURING MATERIALS

Curing materials shall conform to the requirements in curing materials section.

#### EXPANSION JOINT MATERIALS

Expansion joint materials shall be:

Preformed Sponge Rubber and Cork, conforming to AASHTO M 153.

Hot-Poured Elastic Type, conforming to AASHTO M 173.

Preformed Fillers, conforming to AASHTO M 213.

#### ELASTOMERIC COMPRESSION JOINT SEALS

These shall conform to AASHTO M 220.

#### ELASTOMERIC BEARING PADS

These shall conform to AASHTO M 251 or Item 412 - Elastomeric Bearing Pads.

#### STORAGE OF CEMENT AND AGGREGATES

Storage of cement and aggregates shall conform to all the requirements of Subsection 311.2.10.

#### SAMPLING AND TESTING OF STRUCTURAL CONCRETE

As work progresses, at least one (1) sample consisting of three (3) concrete cylinder test specimens, 150 x 300mm (6 x 12 inches), shall be taken from each seventy-five (75) cubic meters of each class of concrete or fraction thereof placed each day.

#### BILLBOARD

##### DESCRIPTION

This item shall consist of installation of Billboards on locations as established by the Engineer-In-Charge in conformity with the standard size, design, layout and dimension as shown in the Plans.

##### MATERIAL REQUIREMENTS

Based on the standard design approved by and material requirement of the implementing agency

#### THERMOPLASTIC MARKINGS (WHITE/YELLOW)

##### MATERIAL REQUIREMENTS

Reflectorized thermoplastic pavement material shall be homogeneously composed of pigment, filler, resins, and glass reflectorizing spheres.

The thermoplastic materials shall be available to both white and yellow.

Glass Beads (Pre-mix) shall be uncoated and shall comply with the following requirements:

Refractive Index, min. = 1.5  
Spheres Percent, min. = 90

Gradation.

Sieve, mm	Mass Percent Passing
0.850	100
0.600	75 - 95
0.425	-
0.300	15 - 35
0.150	-
0.150	0 - 5

#### CONSTRUCTION SAFETY AND HEALTH DESCRIPTION

This item shall include necessary provision of construction safety and health gear such as safety vest, Safety helmet, First Aid Kit, Safety Boots and Gloves. All materials delivered and utilized for the project shall be turned-over to the implementing agency after the completion of the project.

#### MATERIAL REQUIREMENTS

Based on the standard design and specifications approved by and material requirement of the implementing agency.

#### STEEL BARRICADE (RENTAL) DESCRIPTION

This item shall consist of installation of steel barriers on locations as established by the Engineer-In-Charge in conformity with the Standard size, design, layout and dimension as shown in the Plans

#### MATERIAL REQUIREMENTS

Based on the standard design approved by and material requirement of the implementing agency

#### COLOR POLYMER SLURRY MIXTURE DESCRIPTION

This item shall consist of High-grade colored emulsified asphalt and colored aggregate (Red). Low VOC content, excellent hydrophobicity, aging resistance and can reduce urban heat island effect, prolong road service life or as specify by the Engineer-In-Charge.

#### CONCRETE SURFACE AGENT DESCRIPTION

This item shall consist of Polymer emulsion and various special additives and for application on concrete surface before applying the color polymer slurry mixture or as specified by the Engineer-In-Charge

#### ELECTRICAL WORKS DESCRIPTION

This item shall consist of the furnishing of materials, equipment and labor for the installation of roadway lighting works which includes the street light posts and concrete footings/ foundations, panel board (Lighting Contactor/Control Panel), electrical services including all conduits, pull boxes and junction boxes, wires and cables, photocell control concrete pedestal and meter base, luminaires and its accessories, emergency tunnel lightings, programmable logic controller (PLC) and built-in advertising display (other installed accessories)

The location of street lighting posts shown on the Drawings are approximate and the exact location shall be determined/established by the Engineer in the field.

#### MATERIAL REQUIREMENTS



All materials shall be brand new and shall be of the approved type. It shall conform to the requirements of the Philippine Electrical Code and the products locally manufactured shall bear a Philippine Standard (PS) mark, while imported products shall bear Import Commodity Clearance (ICC) certification marks duly issued by the Bureau of Philippine Standards (BPS).

#### **CORROSION PROTECTION**

Ferrous metal raceways, cable armor, boxes, cable sheathing, cabinets, elbows, couplings, nipples, fittings, supports, and support hardware shall be permitted to be installed in concrete or in direct contact with soil. Corrosion protection shall be provided in areas subject to severe corrosive influences where made of material approved for the condition, or where provided with corrosion protection approved for the condition as indicated in the Plans or as approved by the Engineer.

#### **SYSTEM PROTECTION**

All street lighting systems shall be protected by an overcurrent device. The overcurrent device shall be sized rated or setting not higher than the allowable ampacity of the conductor. The circuit breakers shall be of the thermal magnetic type having inverse-time tripping characteristics on overload and instantaneous trip on short circuits, shall be equipped with arc quenchers, shall have quick-make and quick-break toggle mechanism, and shall have trip-free operating handles. Each multi-pole breaker shall have a common trip so that an overload on one pole will automatically cause all poles of the breaker to open.

#### **STREET LIGHTING POST AND CONCRETE FOOTING**

##### **STREET LIGHTING POST**

Street Lighting Posts shall adhere to the details as indicated on the Plans. For Single-Arm and Double-Arm Post rising a minimum of 8.0 meters above finished ground with a maximum of 3 meters overhang.

All posts shall be designed to withstand, with the associated luminaires, a wind velocity of 250 kilometers per hour determined in accordance with AASHTO LTS-6, Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals while supporting luminaires having effective projected area indicated. Poles shall be anchor-: based types designed for use with underground supply conductors.

All posts shall have an inspection door or hand hole and shall have a suitable gasketed screw cover. After the post has been erected, sealed and fixed in the foundation block, a coat of finishing aluminum paint shall be applied. Posts shall be provided with galvanized steel anchor bolts threaded top end and with a hooked bent at an angle end at the bottom. Size of the anchor bolts shall be as indicated on the Plans.

Pole shall shall be made in accordance with ASTM A53M, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated, Welded and Seamless.

Anchor bases shall be provided with hot-dipped, galvanized steel anchor bolts with double nuts and washers, threaded at the top end and banded at 90° at the bottom end. Galvanized nuts, washer, and ornamental covers shall also be provided for anchor bolts. Galvanizing shall be in accordance with the requirements of ASTM A153, Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware or AASHTO M 111, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products (ASTM A123) for the fittings.

##### **LUMINAIRE AND HOUSING**

All lighting fixtures and lamps are as specified and listed on the lighting fixture schedule.

Luminaires shall be made of heated die cast aluminum and alloy and painted with an electrocoat gray paint finish or shall be designed, equipped and gasketed to preclude any entry of water or dust into the interior surfaces under high wind conditions.

The Contractor shall supply, install, and replace defective lamp in the first 12 months of defect liability period. The luminaire shall be designed to operate at 230 volts, A.C., 60 hertz, single-phase and shall be in compliance with UL 1598, and an IEC 529 Ingress protection 55 (IP55) construction. Luminaires with complete lamps of the number, type and wattage indicated shall be provided. Luminaires for roadway lighting shall be the shallow glass "cobra head" style, "vertical" head style, or "high mast" style or as indicated on the Plans.

The acceptable levels of luminance shall be achieved under normal operation.

Light Emitting Diode (LED) luminaire Requirements:

1. Housing shall be primarily constructed of corrosion-resistant cast aluminum with a powder coated finish of a neutral color.
2. All mounting hardware shall be of non-corrosive or suitably protected metal.
3. Driver and LED modules shall be replaceable as separate units with tool-less plug-in electrical connections.
4. Luminaire housing shall be UL listed for wet locations. Optical assembly shall be minimum IP-65 rated per IEC.

#### **BALLAST**

Ballasts shall operate within the range of voltage-current characteristic parameters that are compatible with the lamp used. Ballasts shall be capable of lamp starting at ambient temperatures down to minus 29 °c.

#### **CONDUIT**

Conduit shall be provided in the size as indicated on the Drawings. Conduits shall be standard rigid steel, zinc coated or galvanized. Intermediate metal conduit shall be used if shown or specified on the Plans.

Fittings such as locknuts and bushings shall be galvanized. Exposed conduits for service entrance shall be galvanized intermediate metallic conduit and fittings and shall conform to ANSI C 80.1. Galvanized Rigid Conduit. Tapped conduit hub shall be provided for the panel board.

#### **STREET LIGHTING POST CONCRETE FOOTINGS**

Street lighting post concrete footing shall be Class A and shall conform with Subsection 405.2.

##### **Material Requirements of Item 405. Structural Concrete**

All electrical lighting post footings with dimensions indicated in the Plans shall be reinforced concrete and shall conform with the requirements for concrete structures of this Specification. Excavation and backfill for foundation including disposal of surplus material shall be provided. Excavated holes for concrete footings shall be neat or properly formed and free from loose materials when the concrete is placed.

When placed, the concrete shall be well consolidated to completely fill and devoid in the hole and around the post when embedded. Concrete shall be moist cured for not less than 4 days.

#### **ELECTRICAL CONDUCTORS AND GROUNDING**

Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and the products locally manufactured shall bear a Philippine Standard (PS) mark, while imported products must bear Import Commodity Clearance (ICC) certification marks duly issued by the BPS.

All wires shall be copper, soft drawn, annealed smooth and of cylindrical form and shall be centrally located inside the insulation. Conductor sizes shall be not less than the indicated sizes on the Drawings.

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

The size of the ground rods and ground wells shall be as shown on the Plans. The resistance shall not be more than 5 ohms. Grounding wire shall be made of bare copper stranded soft drawn wire and shall be installed in one continuous length without splice or joint. Ground rods shall be made of copper-clad steel of not less than 20 mm diameter x 3 meters in length driven in full length into earth.

#### **LIGHTING CONTROL PANEL/PANELBOARD**

All panelboards shall conform to the schedule of panelboards as shown on the Plans with respect to supply characteristics, ratings of main lugs or main circuit breaker, number, ratings, and capacities of branch circuit breakers. Panelboard cabinets shall be designed and fabricated for pole surface mounted. Enclosures shall be fabricated to be watertight, dusttight, temper proof, dead front suitable for outdoor installation, and for 230 volts, single-phase, 60 Hertz application in accordance with National Electrical Manufacturers Association (NEMA) requirements.

The interior and exterior of cabinet shall be given two coats of the manufacturer's standard paint which is

light gray in color. Conduit entry shall be at the top and bottom. A directory holder shall be provided inside the panel and ground lug for ground wire connection. Nameplate of laminated plastic shall be attached by means of stainless-steel rivets or permanent adhesive showing panelboard number.

### **CIRCUIT BREAKERS**

All circuit breakers shall be plug in and thermal magnetic type, manually or electrically operated as required with ratings and capacity as shown on the Plans.

All service entrance with circuit breaker shall have magnetic contactor as shown on the plans.

All circuit breakers shall have inverse-time tripping characteristics on overload and instantaneous trip on short circuits. It shall have quick make or break toggle mechanism, trip-free operating handle, and shall be equipped with arc quenchers. Each multi-pole breaker shall be designed to have a common trip so that an overload or short on one pole will automatically cause all poles of the breakers to open.

All circuit breakers shall be ambient compensated to 50 °C to carry full rated current with uniform tripping characteristics throughout the temperature range from 25 °C. The circuit shall have an interrupting rating of not less than 14,000 symmetrical amperes of 230 volts, AC.

### **TERMINAL CONNECTOR**

Connectors for wiring shall be rated at least 600 volts and shall be of the following types:

1. For 5.5 mm<sup>2</sup> and smaller conductors/cables: Rugged material, such as phenolic, shall be mounted end-to-end without spacing. The pressure type tin plate copper connectors shall have non-flammable and self-extinguishing insulation with temperature rating equal to that of the conductor insulation.
2. For 8.0 mm<sup>2</sup> and above conductors/cables: Type of construction shall be one-piece and material shall be phenolic. Terminal configuration shall be done by binding screw terminals. Solderless type connector made of compact, high strength, high copper alloy, split-bolt, free running threads and highly resistant to corrosion and cracking shall be used. Maximum pressure and assure/secure connection on all combinations of run and tap conductors shall be provided.

### **MAIN FEEDER DISTRIBUTION SYSTEM**

The Main Feeder Distribution System in roadway lighting works is composed of the following:

#### **1. Conduit**

The Material Requirements shall conform with Subsection 624.2.3.5, Material Requirements of Conduit.

#### **2. Electrical Conductors (Wires and Cables)**

The Material Requirements shall conform with Subsection 624.2.3.8, Material Requirements of Electrical Conductors.

#### **3. Lighting Control Panel/Panel board**

The Material Requirements shall conform with Subsection 624.2.4, Lighting Control Panel/Panel board.

### **CONSTRUCTION REQUIREMENTS**

All works shall be executed in the best practice in a workmanlike manner by qualified and experienced electricians under the immediate supervision of a duly Registered Electrical Engineer.

### **STREET LIGHTING POST**

All street lighting posts shall be constructed of cold rolled mild steel of a sufficient gauge having yield strength of not less than 248.2 MPa and shall be followed with a prime coat of paint within 24 hours. The prime coat of paint shall be compatible with the finish coat of paint.

The pole shall be provided with a hand hole and grounding lug attachment at the elevation and a cable entry slot sized and located as shown on the standard Drawings. The slot shall be free of burrs and sharp edges.

### **LUMINAIRES AND HOUSING**

Luminaires shall be robustly constructed, weatherproof, hail proof, insect proof, corrosion proof, solar (including ultra-violet) resistant, and vandal resistant.

The construction of the housing shall be such that cracking cannot occur during the process of fixing the luminaire to the pole or bracket. The housing shall be made of heat-treated, die-cast aluminum or aluminum alloy and shall be painted with an electro coat gray paint finish. It shall have readily accessible internal parts and easy to open when properly mounted. The luminaire surfaces, joints, and rim shall be smoothed and freed of burrs and sharp edges that could cause injury to the workman.

Hardware such as hinges, latches, springs, nuts, screws, washers, pins, among others, shall be made of materials compatible to the housing material and shall be inherently corrosion-proof or have been protected by finishes approved for corrosion resistance. However, those exposed to the elements shall be made of high-grade stainless steel.

#### **BALLAST**

Ballasts shall be of the encapsulated or vacuum impregnated type. The process of vacuum impregnation shall be such that the interstices of the windings are completely filled with the impregnating material. Connections shall be brought out to a suitable brass screw terminal block mounted on the ballast housing. Terminal blocks with steel screws will not be acceptable.

#### **CONDUIT**

All electrical conduits and fittings shall be installed in their correct positions and locations as shown on the Plans. The conduits shall be directly buried in earth, except under paved areas and roadways, the conduit shall be encased in concrete and end of conduits shall be plugged with patching compounds at all outlets, or boxes, to keep the conduits dry. Trenches in which the PVC conduits are laid shall follow the alignment as indicated on the Drawings. In trenches and sidewalks, the PVC conduit shall be laid on 10 cm sand bed and covered by a layer of sand 20 cm on thick measured from the upper level of the bed. For trenches under paved areas the same procedures shall be followed except the concrete shall be used in the place of sand. After placing the concrete, the remaining part of the trench shall be backfilled up to the sub-grade level with soil compacted. Cables shall be installed in one length from point to point and no joints shall be permitted. Before the cables are pulled, the Contractor shall see to it that the conduits are continuous and clear of debris, stone, and sand. Sharp bends shall not be permitted. A minimum covering of 0.45 meter under the pavement shall be required for the conduits under the roadway.

#### **STREET LIGHTING POST CONCRETE FOOTINGS**

Street lighting posts concrete footings shall be square in shape or as shown on the Plans. Anchor bolt circle dimensions shall be furnished and rigid template shall be used to center the anchor bolts in the foundation. Unless otherwise specified, the template shall be oriented so that the mast arm of the lighting standard is perpendicular to the centerline of the roadway. The top of the concrete foundation shall be constructed level and only shims used to make the lighting standard shall be permitted. Shims with break-away couplings shall not be permitted. Each foundation shall have an imprinted arrow/s on the top of the foundation to indicate the direction of the cable duct run.

#### **ELECTRICAL CONDUCTORS AND GROUNDING**

All electrical conductors and grounding shall be furnished and installed by the Contractor with the sizes as indicated on the Plans. All connection shall be mechanically and electrically sound and secured by insulating tape. Solderless connectors of approved type shall be used for making connections of power cables. The insulations in them shall be built up again to normal thickness with rubber and vinyl plastic tapes. Splices in conductors shall only be made at pull boxes, hand holes or cabinets. No kinks or abrasions in the insulation or protection covering shall be found in installed conductors.

All grounding system installation shall be executed in accordance with the Plans. Grounding system shall include ground rods and ground wire taps as shown in the approved design. The ground wire is connected to the top or side of the ground rod. The ground rod, ground wire connection is made by a thermo-weld process. The wire and ground rod is required to be free of oxidized materials, moisture, and other contaminants prior to inserting the wire and the ground rod into the properly sized mold. The welding material is required to sufficiently cover and secure the conductor to the rod. The completed connection is required to be nonporous. This connection includes a quick-disconnect type connector kit so that in the event of a pole knockdown the connection readily breaks without damage to the buried conductor.

#### **CIRCUIT BREAKERS**

Circuit breakers shall be mounted so that any individual branch breakers can be removed without disturbing adjacent units or without loosening or removing supplement insulation.

#### **TEST AND GUARANTEE**

Upon completion of the electrical construction work, the Contractor shall provide all test equipment. The Contractor shall then submit copies of all test results to the Engineer.

After the installation of all cables, the Contractor shall test the insulation resistance of all feeders and connected equipment with a 500 volts megger for grounds and short circuits. Testing shall include measuring of insulation resistance. These measurements shall be recorded by feeder and branch circuit number indicating the resistance values between phases and ground.

The Contractor shall guarantee that the electrical installation is done and in accordance with the Plans and Specifications. The Contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one (1) year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

#### **METHOD OF MEASUREMENT**

The work under this item shall be measured either by lengths, pieces, pairs, lot, and set actually placed and installed as shown on the Plans.

The quantity of street lighting and electrical work to be paid for shall be the number of lighting posts of single and double luminaires to include all conduits, luminaires, all wirings, panelboard, nuts, washer, concrete footing, fasteners, conduit clamps, bolts, capacitors, coils and others including all necessary materials and accessories needed for moisture and fungus control, corrosion protections and all other incidentals needed to make the system operational and accepted to comply with the requirements of the latest edition of the Philippine Electrical Code, Part 2 and any other ordinances including payment of necessary permits from local enforcing authorities.

#### **NOTES:**

All other item of works not covered by this listed TECHNICAL SPECIFICATIONS shall be ISSUED with supplemental specifications by the Implementing Agency based on the Program of Work and Approved Plan(s) for the proposed project.

PREPARED BY:

  
**ENGR. JONNEL M. GULING**  
Planning and Design Division

CHECKED BY:

  
**ENGR. ANDRAE RENZ B. LEE**  
Planning and Design Division

## ***Section VII. Drawings***

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

## ***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 BIKE LANE AND SIDEWALK IMPROVEMENT AT ELLIPTICAL ROAD (PHASE 2)  
**LOCATION :** VARIOUS BARANGAYS (VASRA, PROJECT 6, CENTRAL AND OLD CAPITOL SITE), DISTRICT 4, QUEZON CITY,  
**PROJECT NO. :** 24 - 00038  
**DURATION :** One Hundred Eighty (180) Calendar Days

**BREAKDOWN OF COST**

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST
			%	VALUE			
PART I	GENERAL REQUIREMENTS						
PART II	OTHER GENERAL REQUIREMENTS						
PART III	CIVIL AND ELECTRICAL WORKS						
PART A	SURFACE COURSES						
PART B	SITE WORKS						
PART C	EARTHWORKS						
PART D	PLAIN AND REINFORCED CONCRETE WORKS						
PART E	METAL WORKS						
PART F	FINISHING AND OTHER CIVIL WORKS						
PART G	ELECTRICAL WORKS						
	<b>TOTAL OF PART III</b>						
	<b>TOTAL</b>						

**TOTAL COST P\_\_\_\_\_**

**LUMP SUM BID IN WORDS :** \_\_\_\_\_

Contractor : \_\_\_\_\_

**BILL OF QUANTITIES**  
(Roads Construction/Rehabilitation Project)

**PROJECT TITLE :** PROPOSED BIKE LANE AND SIDEWALK IMPROVEMENT AT ELLIPTICAL ROAD (PHASE 2)  
**LOCATION :** VARIOUS BARANGAYS (VASRA, PROJECT 6, CENTRAL AND OLD CAPITOL SITE), DISTRICT 4, QUEZON CITY  
**PROJECT NO. :** 24 - 00038  
**DURATION :** One Hundred Eighty (180) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UP IN %		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
<b>PART I</b>	<b>GENERAL REQUIREMENTS</b>											
A.1.1(8)	Operation and Maintenance of Field Office for the Engineer	6	mo									
	<b>TOTAL OF PART I</b>											
<b>PART II</b>	<b>OTHER GENERAL REQUIREMENTS</b>											
B.5	Project Billboard / Sign Board	2	ea									
B.7(1)	Occupational Safety and Health	6	mo									
B.9	Mobilization/Demobilization	1	l.s.									
SPL.13a	Steel Barricade (Rental)	206	ea.									
625(6)	Traffic Control Devices, Traffic Cone (Rental)	200	each									
	<b>TOTAL OF PART II</b>											
<b>PART III</b>	<b>CIVIL AND ELECTRICAL WORKS</b>											
<b>PART A</b>	<b>SURFACE COURSES</b>											
311(1)c2	Portland Cement Concrete Pavement, 0.23m thick, 7 days	1,086	sq.m.									
903(2)	Formworks and Falseworks	128	sq.m.									
902(1)a	Reinforcing Steel, Deformed (Grade 40), 12mm dia.	2,397	kgs									
902(1)b	Reinforcing Steel, Deformed (Grade 60), 16mm dia.	388	kgs									
902(10)	Emulsified Asphalt (Colored Aggregate)	1	l.s.									
	<b>TOTAL OF PART III.A.</b>											
<b>PART B</b>	<b>SITE WORKS</b>											
B.4(1)	Layout and Staking	11,027	sq.m.									
800(4)	Individual Removal of Trees(Large, Above 900mm Ø)	20	each									
801(6)	Removal of Structures and Obstruction	2,626	cu.m.									
	<b>TOTAL OF PART III.B.</b>											

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UP IN %		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
<b>PART C</b>	<b>EARTHWORKS</b>											
104(2)a	Embankment from Borrow	1,103	cu.m.									
803(1)c	Structure Excavation (Solid Rock)	80	cu.m.									
1000(1)	Soil Poisoning	7	cu.m.									
1500(1)	Sand Bedding	276	cu.m.									
1601 (1)	Fill and Backfill	46	cu.m.									
	<b>TOTAL OF PART III.C.</b>											
<b>PART D</b>	<b>PLAIN AND REINFORCED CONCRETE WORKS</b>											
900 (1)	Structural Concrete, Class A, 7 days (3000 psi)	104	cu.m.									
	<b>TOTAL OF PART III.D.</b>											
<b>PART E</b>	<b>METAL WORKS</b>											
1047(1)	Structural Steel	1	l.s.									
	<b>TOTAL OF PART III.E.</b>											
<b>PART F</b>	<b>FINISHING AND OTHER CIVIL WORKS</b>											
612(1)	Reflectorized Thermoplastic Pavement Markings White	355	sq.m.									
612(3)	Reflectorized Thermoplastic Pavement Markings Green	273	sq.m.									
612(4)	Reflectorized Thermoplastic Pavement Markings Yellow	2	sq.m.									
807(9)	Permeable Paver Block	11,027	sq.m.									
1047(1)a	Bollard	275	set									
1047(1)b	Park Light	185	set									
1047(1)c	Street Light	85	set									
1047(1)d	Bench	73	set									
1047(1)e	Pedestrian Signage	6	set									
1018(7)a	Directional Block Tactile Tiles	577	sq.m.									
1018(7)b	Warning Block Tactile Tiles	141	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	11,027	sq.m.									
1032(1)c	Painting Works, Steel	155	sq.m.									
	<b>TOTAL OF PART III.F.</b>											
<b>PART G</b>	<b>ELECTRICAL WORKS</b>											
1100 (10)	Conduit, Boxes & Fittings (Conduit Works/Conduit Rough-in)	1	l.s.									
1101 (33)	Wires and Wiring Devices	1	l.s.									
1102 (1)	Panelboard with Main & Branch Breakers	1	l.s.									
1109(1)	Grounding System	1	l.s.									
1111 (1)	Reinforced Concrete Pole (Service Entrance)	1	l.s.									
	<b>TOTAL OF PART III.G.</b>											
	<b>TOTAL OF PART III</b>											
	<b>GRAND TOTAL</b>											

## ***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*

#### Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**and**
- ☐ (b) 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;  
**and**
- ☐ (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  
**and**
- ☐ (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

#### Technical 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 PCAB License in case of Joint Ventures;  
**and** registration for the type and cost of the contract to be bid; **and**
- ☐ (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;  
**or**  
Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (j) 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

lessor/vendor for the duration of the project, as the case may be (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**

- ☐ (k) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

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

- ☐ (l) 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**
- ☐ (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*).

***Class "B" Documents***

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

**II. FINANCIAL COMPONENT ENVELOPE**

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

Other documentary requirements under RA No. 9184

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

**Bid Form for the Procurement of Infrastructure Projects**  
*[shall be submitted with the Bid]*

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**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:

- a. 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;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the 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 guidelines<sup>1</sup> for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

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<sup>1</sup> 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].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: \_\_\_\_\_

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]*

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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:
  - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
  - c. I am/we are declared 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]*

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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;
  - c. 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.

**IN WITNESS WHEREOF**, I have hereunto set my hand this \_\_\_ day of \_\_\_\_\_ 20\_\_ at \_\_\_\_\_, Philippines.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*  
Affiant

**[Jurat]**

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

## 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:

1. 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);
    - i. 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.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.

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

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

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

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

*for: for:*

*[Insert Procuring Entity] [Insert Name of Supplier]*

**Acknowledgment**

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

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: \_\_\_\_\_

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, PARTNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE	PERCENTAGE		VALUE OF OUTSTANDING WORKS (IN PHP)
									ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	
									TOTAL AMOUNT (Php) OF OUTSTANDING WORKS		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page \_\_\_\_\_ of \_\_\_\_\_



SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page \_\_\_\_\_ of \_\_\_\_\_



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

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

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

**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.

## 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	_____
<b>NET FINANCIAL CONTRACTING CAPACITY</b>		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 VEY STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)

\_\_\_\_\_ ) S.S.

### AFFIDAVIT OF UNDERTAKING

I, \_\_\_\_\_ of legal age, Filipino, \_\_\_\_\_ [OFFICER OR REPRESENTATIVE]

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 [Name of Bidder] to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.

That [Name of Bidder] bidding for the (Name of Project)

That relative to the aforementioned Project, the [Name of Bidder] hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the said project until its completion.

That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.

IN WITNESS HEREOF, I have hereunto signed my name below this \_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_.

AFFIANT FURTHER SAYETH NAUGHT.

\_\_\_\_\_  
Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this \_\_\_\_\_ day of \_\_\_\_\_  
in \_\_\_\_\_

affiant exhibiting to me his/her \_\_\_\_\_ issued at \_\_\_\_\_  
on \_\_\_\_\_.

Doc. No. ;  
Page No. ;  
Book No. ;  
Series of 2020

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Notary Public

