

PHILIPPINE BIDDING DOCUMENTS
(As Harmonized with Development Partners)

**Procurement of
INFRASTRUCTURE
PROJECTS**

Government of the Republic of the Philippines

Sixth Edition
July 2020

Preface

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

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

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

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

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

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

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

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
Cabatangan Hills, Zamboanga City

Invitation to Bid for *CONSTRUCTION of COA PSAO Ipil Perimeter Fence with Gate, Ipil, Zamboanga Sibugay*

1. The *Commission on Audit, Regional Office No. IX, Zamboanga City*, through the *General Appropriations Act of 2024* intends to apply the sum of *Three Million Seven Hundred Seventy-Eight Thousand Seven Hundred Two Pesos and 97/100 (PHP 3,778,702.97)* being the Approved Budget for the Contract (ABC) to payments under the contract for *CONSTRUCTION of COA PSAO Ipil Perimeter Fence with Gate, Ipil, Zamboanga Sibugay /COA RO IX-2024-011*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *Commission on Audit, Regional Office No. IX, Zamboanga City* now invites bids for the above Procurement Project. Completion of the Works is required *160 Calendar Days after the receipt of the Notice to Proceed*. 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 *Arnold P. Bejar – BAC Secretariat, Commission on Audit, Regional Office No. IX, Zamboanga City thru CP # 0997 978 8858* and inspect the Bidding Documents at the address given below from *9:00AM to 4:00PM (Mondays-Fridays)*.
5. A complete set of Bidding Documents may be acquired by interested bidders on *September 10, 2024 to October 1, 2024* from given address and website/s below *in the amount of Four Thousand Pesos (PHP 4,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.
6. The *Commission on Audit, Regional Office No. IX, Zamboanga City* will hold a Pre-Bid Conference¹ on *September 18, 2024 at 9:30AM* at *Commission on Audit, Regional Office No. IX, Cabatangan, Zamboanga City*, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through *manual submission* at the office address as indicated below, as indicated below on or before *9:30AM of October 1, 2024*. Late bids shall not be accepted.

¹ 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.


8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. Bid opening shall be on **9:30AM** of **October 1, 2024** at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. Interested bidders are requested to submit **One (1)** original and **Two (2)** copies of the first and second components of its bid.
11. The **Commission on Audit, Regional Office No. IX, Zamboanga City** 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.
12. For further information, please refer to:

Mr. Arnold P. Bejar
BAC Secretariat
Commission on Audit, Regional Office No. IX
Cabatangan Hills, Zamboanga City
CP # 0997 978 8858
bacsec.coaro9@gmail.com
<https://coaregion9.ph>

13. You may visit the following websites:

For downloading of Bidding Documents:
<https://coaregion9.ph/bids-and-awards/invitation-to-bid>

September 9, 2024



ATTY. MARVIN ANDREW C. LEE
BAC Vice-Chairperson

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, *Commission on Audit, Regional Office No. IX, Zamboanga City* invites Bids for the **CONSTRUCTION of COA PSAO Ipil Perimeter Fence with Gate, Ipil, Zamboanga Sibugay** with Project Identification Number **COA RO IX-2024-011**.

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 **FY 2024** in the amount of **Three Million Seven Hundred Seventy-Eight Thousand Seven Hundred Two Pesos and 97/100 (PHP 3,778,702.97)**.

2.2. The source of funding is:

- a. NGA, the General Appropriations Act or Special Appropriations.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

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

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

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

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.
- 7.2. 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 as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

- 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 special PCAB License in case of Joint Ventures, 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 shall be valid until **January 29, 2025**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

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

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, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Construction of Buildings and/or Building Repairs																								
7.1																									
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10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Key Personnel</u></th> <th style="text-align: center;"><u>General Experience</u></th> <th style="text-align: center;"><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td>1. Project Engineer</td> <td style="text-align: center;">at least two (2) years</td> <td style="text-align: center;">at least two (2) years</td> </tr> <tr> <td>2. Materials Engineer</td> <td style="text-align: center;">-do-</td> <td style="text-align: center;">-do-</td> </tr> <tr> <td>3. Construction Foreman</td> <td style="text-align: center;">-do-</td> <td style="text-align: center;">-do-</td> </tr> <tr> <td>4. Safety Engineer/Safety Officer</td> <td style="text-align: center;">-do-</td> <td style="text-align: center;">-do-</td> </tr> <tr> <td>5. Skilled Carpenter, Mason, Welder, Painter</td> <td style="text-align: center;">at least two (2) years</td> <td style="text-align: center;">at least two (2) years</td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>	1. Project Engineer	at least two (2) years	at least two (2) years	2. Materials Engineer	-do-	-do-	3. Construction Foreman	-do-	-do-	4. Safety Engineer/Safety Officer	-do-	-do-	5. Skilled Carpenter, Mason, Welder, Painter	at least two (2) years	at least two (2) years						
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4. Safety Engineer/Safety Officer	-do-	-do-																							
5. Skilled Carpenter, Mason, Welder, Painter	at least two (2) years	at least two (2) years																							
10.5	<p>The minimum major equipment requirements are the following:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Equipment</u></th> <th style="text-align: center;"><u>Capacity</u></th> <th style="text-align: center;"><u>Number of Units</u></th> </tr> </thead> <tbody> <tr> <td>1. Dump Truck</td> <td style="text-align: center;">6m³</td> <td style="text-align: center;">One (1)</td> </tr> <tr> <td>2. Concrete Vibrator</td> <td style="text-align: center;">5 amp</td> <td style="text-align: center;">One (1)</td> </tr> <tr> <td>3. Bagger Mixer</td> <td style="text-align: center;">4 – 6 ft³/min</td> <td style="text-align: center;">One (1)</td> </tr> <tr> <td>4. Bar Cutter</td> <td></td> <td style="text-align: center;">One (1)</td> </tr> <tr> <td>5. Bar Bender</td> <td></td> <td style="text-align: center;">One (1)</td> </tr> <tr> <td>6. Welding Machine</td> <td style="text-align: center;">300 amp</td> <td style="text-align: center;">Two (2)</td> </tr> <tr> <td>7. Cutting Outfit</td> <td></td> <td style="text-align: center;">One (1)</td> </tr> </tbody> </table>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>	1. Dump Truck	6m ³	One (1)	2. Concrete Vibrator	5 amp	One (1)	3. Bagger Mixer	4 – 6 ft ³ /min	One (1)	4. Bar Cutter		One (1)	5. Bar Bender		One (1)	6. Welding Machine	300 amp	Two (2)	7. Cutting Outfit		One (1)
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12																									
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <p>a. The amount of not less than <u>PHP 75,574.06</u> two percent (2%) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than <u>PHP 188,935.15</u> five percent (5%) of ABC if bid security is in Surety Bond.</p>																								
19.2	Partial bids are allowed, as follows:																								
20	<i>Fencing Permit</i>																								
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.																								

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	
4.1	
6	The site investigation reports are: <i>Site Investigation Report</i>
7.2	Five (5) years
10	a. Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within 10 Calendar Days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <i>One Tenth of One Percent of the amount of the next payment certificate.</i>
13	The amount of the advance payment is <i>Fifteen percent (15%) of the Contract Price.</i>
14	
15.1	The date by which operating and maintenance manuals are required is <i>upon collection of final payment.</i> The date by which "as built" drawings are required is <i>upon collection of final payment.</i>
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 <i>the amount of final payment.</i>

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.

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.]

To download the plans, please refer to this link:

<https://coaregion9.ph/bids-and-awards/invitation-to-bid>

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.

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) in accordance with Section 8.5.2 of the IRR;

Technical Documents

- (b) 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; **and**
- (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- (d) Special PCAB License in case of Joint Ventures; **and** registration for the type and cost of the contract to be bid; **and**
- (e) 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**
- (f) 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;
- 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; **and**
- (g) 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.

Financial Documents

- (h) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC).

Class “B” Documents

- (i) 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

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

Other documentary requirements under RA No. 9184

- (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (l) 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**
- (m) Cash Flow by Quarter.





REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
Cabatangan, Zamboanga City

Project Name : Construction of Perimeter Fence with Gate at COA IX - PSAO, Ipil, Zamboanga Sibugay
Location : IPIL, ZAMBOANGA SIBUGAY

BILL OF QUANTITIES

ITEM NO.	DESCRIPTION	QTY	UNIT	MATERIAL COST	LABOR COST	EQPT. COST	TOTAL DIRECT COST	OCM+ PROFIT	VAT 5%	TOTAL COST
803(1)a	Structure Excavation	106.30	cu.m							
804	Embankment	45.33	cu.m							
405	Reinforced Concrete	56.00	cu.m							
404	Reinforcing Steel	4,904.22	kgs							
704	Masonry Works	543.40	sq.m							
1027	Cement Plaster Finish	877.80	sq.m							
SPL I	Metal Works	10,289.13	kgs							
1032a	Painting Works (Masonry)	1,209.88	sq.m							
1032b	Painting Works (Steel Surface)	424.08	sq.m							
SPL II	Fabrication/Installation of Gate	1.00	lot							
SPL III	Repair of Steel Gate	1.00	lot							
SPL IV	Construction of Pathway	31.14	cu.m							
SPL V	Billboard/Signboard	1.00	lot							
B.9	Mobilization/Demobilization	1.00	ls							
	GRAND TOTAL									

Submitted by:

Name of Contractor:

Date:



Republic of the Philippines
COMMISSION ON AUDIT
Regional Office No. IX
Cabatangan Hills, Zamboanga City

Project: **CONSTRUCTION OF PERIMETER FENCE at COA IX -PSAO**
Location: Ipil, Zamboanga Sibugay

TECHNICAL SPECIFICATIONS

GENERAL PROVISIONS

These specifications have been prepared to cover the construction of the perimeter fence. The scope of work includes but not limited to the items set out in these specifications and indicated on the schedules of drawings set out therein.

In case of discrepancy between the plans and specifications, the specifications shall take the precedence. Large scale drawings shall supersede small scale drawings. Drawing with incomplete detail/s shall be referred to the Resident Engineer.

In the event that the material herein specified is not available, the Resident Engineer has the right to replace it with another material provided that it shall conform to the quality, strength, and standards of the original material.

All parts of the construction shall be finished with first class workmanship to the fullest talent and meaning of the plans and these specifications, and to the entire satisfaction of the Engineer and the Owner.

The construction shall conform to all requirements of the National Building Code of the Philippines as well as the local rules and regulations of the City of Zamboanga, Philippines.

B.9- MOBILIZATION/DEMobilIZATION

The Contractor shall mobilize and bring out into work, all personnel, plant and equipment, in accordance with his approved construction program, equipment moving and utilization schedule and manpower schedule, from its regular place of business to the site to undertake the contract.

Mobilization shall include the obtaining and transporting to jobsite of equipment, materials, tools, personnel, constructional plant and all necessary items for the execution and completion of the work and shall also include the setting up and the verification of all equipment, instrument and all other plant until it is rendered operable.

Demobilization shall also include clean-up of the site after completion of the contract as approved by the Resident Engineer and transportation from the site of Contractor's personnel.

SPL V – PROJECT BILLBOARD/SIGNAGE

The contractor shall provide billboard at the job site prior to the commencement of any project activity for public information in accordance with government standards.

Standard billboard measuring 8ft. x 8ft. (2400 mm x 2400 mm) using a 1/2 inch (12 mm) marine plywood or tarpaulin posted on 3/16 inch (5 mm) marine plywood shall be installed. The

billboard shall be installed in front of the project site. The content of the billboard printing shall be in accordance to COA Circular 2013-004 dated January 30, 2013.

ITEM 803(1)a – STRUCTURE EXCAVATION

The entire site shall be cleared of vegetation to include the cutting of trees that may hinder the construction works. All unsuitable materials must be disposed of in a proper manner. Ground surface shall be graded and leveled to the desired grade. All works must be always done in strict coordination with the Resident Engineer.

The building lines shall be staked out and all lines and grades shown in the drawings established before any excavation is started. Batter boards and reference marks shall be erected at such places where they will not be disturbed during the excavation of the building.

Structure excavation includes the removal of all materials within the structural lines including the necessary dewatering operations in accordance with the elevations shown in the drawings. It shall include additional excavations within the vicinity of the structure in order to shape the ground as shown in the drawings or as directed by the Resident Engineer. All works must be approved by the Resident Engineer prior to accomplishing the succeeding work items.

ITEM 804 – EMBANKMENT FROM EXCAVATION

The materials taken from the structural excavations shall be backfilled and compacted to the footings and tie beams after the concrete works are completed except for the unsuitable materials which shall be disposed of.

ITEM 405 – REINFORCED CONCRETE

This item shall consist in the furnishing, placing, curing and finishing concrete in structures in conformity with the lines, grades and dimensions shown on the plans. Concrete shall consist of a mixture of portland cement, fine aggregates, coarse aggregates, water and admixtures when specified or approved by the Resident Engineer.

All concrete shall develop a minimum compressive strength (fc) at the end of twenty eight (28) days with corresponding maximum size aggregates and slump as follows:

	28 days fc	Max. aggregate	Slump
Columns	3000psi (21MPa)	19mm	100mm
Footings	3000psi (21MPa)	19mm	100mm
Beams	3000psi (21MPa)	19mm	100mm
Others not indicated	3000psi (21MPa)	19mm	100mm

- a. Fine aggregates needed in the composition of concrete mortar, grout or plaster shall consist of sand. Stone screening on other inert materials with similar characteristics or a combination thereof, having clean, hard strong, sound, durable, uncoated grains and free from injurious amount of dust, lump, soft or flaky particles, slags, alkali organic matter, loam or other deleterious substances and shall not contain more than three percent (3%) clay lumps or one percent (1%) slags. For exposed works, fine aggregates shall be free from any substances which will discolor the concrete surface.
- b. Coarse aggregates shall consist of crushed gravel having clean, hard, strong, sound, durable, uncoated grains and free from injurious amount of soft, pliable elongated or laminated pieces, alkali organic or other deleterious matter. Crushed aggregates shall be graded not more than ¾” in diameter or as directed by the Resident Engineer.
- c. Water to be used in mixing concrete shall be free from oil, acid, alkali, vegetable matter, or other deleterious substances and shall be reasonably clean and clear.

- d. Concrete admixtures necessary to hasten the curing process maybe added upon direction and approval of the Resident Engineer.

Mixing of concrete shall be measured, batched and mixed in a batch mixer, or by hand done in a water tight wooden platform at the jobsite. Concrete must be mixed for a time sufficient to ensure the uniform distribution of particles throughout the mass and should be deposited as nearly as practicable in its final position, care being taken to avoid segregation of the aggregates.

A CONCRETE DESIGN MIX, CONCRETE TRIAL MIXES AND COMPRESSIVE TESTING shall be performed by the contractor prior to actual concreting works to determine whether the concrete as designed and actually mixed passed the compressive strength requirement of at least 4,000 psi after 28 days. The first sample shall be tested at seven (7) days, the second sample shall be tested at fourteen (14) days, and the third sample shall be tested at twenty-eight (28) days. This data shall be provided by the contractor to the Resident Engineer for his perusal and approval to be used in actual concrete pouring.

A written request for concrete pouring shall be submitted to the Resident Engineer at least two (2) days prior to pouring. No concrete pouring shall be conducted in the absence of the Resident Engineer.

To ensure the availability of the concrete design mix, concrete trial mixes and concrete testing, this item shall be performed even during the receipt of the notice to commence work and after the concreting materials shall have been delivered on site.

Concrete curing shall be started as soon as freed water has disappeared from the surface of the concrete. Curing shall continue for a period of not less than seven (7) days after placing the concrete in its final position.

ITEM 404 – REINFORCING STEEL BARS

This item shall consist of furnishing, bending, fabricating and placing of steel reinforcement of the type, size, shape and grade required in accordance with this specification and in conformity with the requirements shown in the plans or as directed by the Resident Engineer.

As to strength, all reinforcing steel bars to be used shall have a tensile strength (fy) of at least 60,000 psi (414 MPa) for all load bearing structures and 40,000 psi (280 MPa) for non-load bearing. A Mill Certificate as to the tensile strength of the bars shall be provided. As to mass, the weight of the reinforcing steel bars to be used also shall not vary to more than 6% of the mass/weight requirements per lineal meter for each sizes/diameter of reinforcing steel bars.

Bars	Fy
16mm dia bars and above	Grade 40 / 280 MPa
12mm dia bars and below	Grade 40 / 280 MPa

Before materials are ordered, all order list and bending diagrams shall be furnished by the contractor to the Resident Engineer for approval. Such approval of the order list and bending diagrams submitted shall in no way relieve the contractor of the responsibility for the correctness of such lists and diagrams. Any expense incident to the revisions of materials furnished in accordance with such list and diagrams and found by the Resident Engineer to be not complying with the plans shall be borne by the contractor.

All steel reinforcement shall be accurately placed in the position shown on the plans, or required by the Resident Engineer. It shall be firmly held during the placing and setting of concrete. Bars shall be tied at all intersections and fastened on the inside.

Unless otherwise noted in the plans, camber all RSB Beams and Girders at least 6 mm. for every 4 meters of span, except cantilevers which shall be 16 mm. for every 3 meters span. If there

are two or more layers of RSB, use 25 mm diameter separators spaced at 1.0 m. on center, and top bars splices shall be located at midspan and bottom bars splices at column support unless otherwise indicated on the plans.

SPL I – METAL WORKS

This item shall consist of furnishing all materials, labor, tools and equipment, and performance of all operations relative to the fabrication, delivery to site, erection and painting of structural steel roof framing system.

All structural steel work shall be in accordance with the Specifications for ASTM A325 for all anchor bolts. All connections must be fully welded to develop at least 125 % of the full strength in tension of the members being connected. $F_y=248.20$ MPa (36,000 psi) is the minimum yield strength for all members unless specified elsewhere.

Welding, shearing, gas cutting, chipping and all other works involved in the fabrication of structural steel shall be done with accuracy and of highest quality of workmanship, within the tolerable allowance prescribed in the AISC specifications. Welding of structural members in shop and in field shall be done only by certified and experienced welder. Surfaces to be welded shall be free from loose side, rust, grease, paint and other foreign materials that will impair the soundness of the weld. Surfaces or joints prepared for welded or high strength bolted connections shall comply with the cleanliness requirements. Quality control shall be practiced by the fabricator to assure high quality in the work. In addition, materials and workmanship shall be subject to inspection by the Resident Engineer.

The structural steel shall be given one coat of metal primer (grey color), applied thoroughly and evenly to dry surfaces, which have been cleaned by brush or spray roller coating. Steel work prior to painting and after inspection and approval shall be cleaned of loose mill scale, loose rust weld slag or flux deposit, dirt and other foreign materials. Oil and grease shall be removed by solvent. Parts of steel work which are to be welded shall not be painted.

All steel works after complete erection shall be painted with the type and color specified herein, or as directed by the Resident Engineer.

ITEM – FORMWORKS AND SCAFFOLDINGS

This item shall consist in furnishing and installation of plywood/lumber forms and GI pipe frame & scaffoldings necessary for the final erection of the structural components and completion of the building project. Sufficient/proper forms and scaffoldings shall be installed in order to prevent deflection or sagging of the concrete structures. Plywood forms in contact with concrete shall be applied with coal tar or used oil and properly secured and joined to prevent seepage of water from the concrete mixture.

All materials and works shall be subject to checking and approval of the Resident Engineer prior to concrete pouring.

ITEM 704 – MASONRY WORKS

This item shall consist of furnishing and placing of Concrete Hollow Block (CHB) wall in accordance with this specification and conforming to the lines, grades and dimensions shown on the approved plans.

Material Requirements:

- a. All concrete works must be in accordance with all components of the structure and reinforced with deformed steel bars following strictly the drawings/plans with regards to size and spacing. Concrete mortar shall be Class “A” mixture. Finishing works shall be clean and smooth.

- b. Use 6" CHB for all walls.
- c. Use only Portland Cement.
- d. Aggregates must be washed, well screened, clean, and free from loam, silt and other impurities and must conform with specification.
- e. The load bearing of hollow blocks shall have a minimum comprehensive strength of 6.89 MPa (1,000 psi) computed from the average of five (5) units based on the average gross area, and a minimum of 5.45 MPa (800 psi) for the individual unit respectively, all based on the gross area.
- f. All cement plaster shall be 16 mm. thick minimum on vertical concrete and masonry works including those located below the finished ground line. It shall be true to details and properly plumbed.
- g. The Resident Engineer must approve all materials and works to be done.

ITEM 1032 – PAINTING WORKS

This item shall consist of furnishing of all paint materials, varnish and other related products, labor, equipment required in undertaking the proper application of the paint or related works indicated in the plan and in accordance with this specification.

All paints shall be evenly applied in coats of proper consistency and well brushed-out so as to show a minimum of brush marks. All coats shall be thoroughly dried before the succeeding coat is applied. Where surfaces are not properly covered or cannot be satisfactorily finished in the number of coats specified, such preparatory coats and subsequent coats as maybe required, shall be applied to attain the evenness of the surface without extra cost to the owner. Where the surface is not in proper condition to receive the coat, the Resident Engineer shall be notified immediately. Work of the questioned portions shall not start until a clearance to proceed is given by him.