



Republic of the Philippines
Bataan General Hospital and Medical Center
Balanga City, Bataan



PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

PROJECT TITLE:

**2021 18TH PUBLIC BIDDING:
DESIGN AND BUILD OF THREE (3)
STOREY E.R. COMPLEX AND POISON
CENTER BUILDING (PHASE I)**

IB No. BGHMCPB-2021-18-001

March 17, 2021

**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.



INVITATION TO BID FOR 2021 18TH PUBLIC BIDDING: DESIGN AND BUILD OF THREE (3) STOREY E.R. COMPLEX AND POISON CENTER BUILDING (PHASE I)

1. The **Bataan General Hospital and Medical Center**, through the **Internally Generated Fund and Regular Agency Fund CY 2021** intends to apply the sum of **Php 65,000,000.00** being the ABC to payments under the contract for **2021 18TH Public Bidding: Design and Build of Three (3) Storey E.R. Complex and Poison Center Building (Phase I) / BGHMCPB-2021-18-001**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
 2. The **Bataan General Hospital and Medical Center** now invites bids for the above Procurement Project. Completion of the Works is required **420 Calendar Days after the receipt of Notice to Proceed**. Bidders should have completed, within **five years** from the date of submission and receipt of bids, 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. Prospective Bidders may obtain further information from **BGHMC BAC Secretariat Office** and inspect the Bidding Documents at the address given below during **weekdays excluding holidays, 8:00am to 5:00pm**.
 5. A complete set of Bidding Documents may be acquired by interested Bidders on **March 17, 2021 – May 6, 2021** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Php25,000.00**.
- The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
6. The **Bataan General Hospital and Medical Center** will hold a Pre-Bid Conference¹ on **April 8, 2021, 2:00 pm** via *Virtual Conference through Zoom Application (Zoom Link will be send to bidders who registered to the Procuring Entity's google form <https://forms.gle/XFMBSQK8ZkuEZyXS7>)*, which shall be open to prospective bidders.
 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **May 6, 2021, 11:00am**. 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 15.
9. Bid opening shall be on **May 6, 2021, 2:00pm** at *Ground Floor, Business Area of Bataan General Hospital and Medical Center, Manahan St., Tenejero Balanga City, Bataan* (in case this venue is not available at the time of the Pre-Bid Conference, notice will be posted in the BAC office. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The **Bataan General Hospital and Medical Center** 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 IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

BAC Secretariat

BATAAN GENERAL HOSPITAL AND MEDICAL CENTER

Manahan Street, Tenejero, Balanga City, Bataan

Telefax Number: (047) 237-1272

Telephone Number: (047) 237-9771 loc. 310

E-Mail Address: bghbac_secretariat@yahoo.com/bghbacsecretariat@gmail.com

Website: www.bataangeneralhospital.doh.gov.ph

You may visit the following websites:

For downloading of Bidding Documents: *bataangeneralhospital.doh.gov.ph*

March 17, 2021

JOCELYN S. BONGCO, MD

BAC Chairperson/Authorized Representative

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, **Bataan General Hospital and Medical Center** invites Bids for the for **2021 18TH Public Bidding: Design and Build of Three (3) Storey E.R. Complex and Poison Center Building (Phase I)**, with Project Identification Number **BGHMCPB-2021-18-001**.

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 **Internally Generated Fund and Regular Agency Fund CY 2021** in the amount of **Php 65,000,000.00**.

2.2. The source of funding is 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 Subcontracting is not allowed.

7.1. *Not Applicable*

7.2. *Not Applicable*

- 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 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 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 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 **September 3, 2021**. 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, similar contracts shall refer to contracts which have the same major categories of work <i>at least Three (3) Storey Building, which includes special requirements such as Automatic Fire Sprinkler System, Elevator System, Communication System, and Medical Gas Line System,</i> within five (5) years from the date of submission and receipt of bids
7.1	<i>No Further Instructions</i>
10.1	<p>The following documents shall be part of the Technical Documents under Technical Component Envelope:</p> <ol style="list-style-type: none"> 1. Attachment for Ongoing Government and Private Contracts such as Notice of Award and/or Contract, Purchase Order and Delivery receipt or Sales Invoice. 2. The statement of the Bidder's SLCC shall be supported by the Notice of Award and/or Notice to Proceed, Project Owner's Certificate of Final Acceptance issued by the Owner other than the Contractor or the Constructors Performance Evaluation System (CPES) Final Rating, which must be at least satisfactory. In case of contracts with the private sector, an equivalent document shall be submitted 3. Duly Signed Manpower Utilization Schedule 4. Duly Signed Key Personnel Certificate / Contract of Employment 5. Duly Signed Key Personnel Bio-Data with PRC License/ Accreditation & Latest Professional Tax Receipt (PTR) 6. Duly Signed Equipment Utilization Schedule 7. Duly Signed Construction Schedule & S-Curve 8. Duly Signed Narrative Description of Construction Method 9. Certificate of Site Inspection 10. Duly Signed Construction Safety and Health Programs System. 11. Certificate of Testing of Materials (during the contract implementation) <p>The following documents shall be part of the Financial Documents under Technical Component Envelope:</p> <ol style="list-style-type: none"> 1. Joint Venture Agreement (If applicable) <p>- IF NOT APPLICABLE: Attach a Statement that the company has NO</p>

	JOINT VENTURE AGREEMENT for this project, with signature of Authorized representative to be included in the Financial Documents of the Technical Component Envelope
10.3	Prospective Bidder should possess a valid PCAB license minimum category requirement category for this Project is license category B or size range Medium A
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <p>For the Pre-Detailed Design and Detailed Design portion of the contract, the Bidder is required to have or required to enter into a joint venture agreement with an architectural firm that will design the project with the minimum number of professionals as shown below:</p> <p>1. DESIGN/PRINCIPAL ARCHITECT (1)</p> <p>a. Licensed Architect</p> <p>b. At least 15 years of experience in hospital and hospital-related projects</p> <p>2. JUNIOR ARCHITECT (2)</p> <p>a. Licensed Architect</p> <p>b. At least 5 years of experience</p> <p>c. Proficient in AutoCAD Software</p> <p>3. STRUCTURAL/CIVIL ENGINEER (1)</p> <p>a. Licensed Structural/Civil Engineer</p> <p>b. At least 10years experience in structural design of medium-rise structures</p> <p>c. Proficient in AutoCAD Software</p> <p>4. PROFESSIONAL ELECTRICAL ENGINEER(1)</p> <p>a. Licensed Professional Electrical Engineer (PEE)</p> <p>b. At least 10 years of experience in hospital and hospital-related projects</p> <p>c. Proficient in AutoCAD Software</p> <p>5. PROFESSIONAL MECHANICAL EQUINEER (1)</p> <p>a. Licensed Professional Mechanical Engineer (PME)</p> <p>b. At least 10 years of experience in hospital and hospital-related projects</p> <p>c. Proficient in AutoCAD Software</p> <p>6. SANITARY ENGINEER (1)</p> <p>a. Licensed Professional Sanitary Engineer (PSSE)</p> <p>b. At least 10 years of experience in hospital-related projects</p> <p>c. Proficient in AutoCAD Software</p> <p>7. CADD OPERATOR (4) (preferably one for Architecture and one for each engineering specialty)</p> <p>a. At least Bachelor's Degree in Architecture or Engineering</p> <p>b. Proficient in AutoCAD Software</p> <p>8. OTHERS AS REQUIRED FOR THE PROJECT</p> <p>a. The bidder is required to prioritize the hiring of locally-based architects,</p>

	<p>engineers, and draftsmen especially if such have had experience and training in health facilities projects and design.</p> <p>For the construction portion of the contract, the Bidder must assign to the project professionals as shown below:</p> <ol style="list-style-type: none"> 1. PROJECT MANAGER (1) <ol style="list-style-type: none"> i. Licensed Engineer or Architect ii. At least 10 years of experience in construction management iii. Good oral and written communication skills 2. PROJECT ENGINEER (2) <ol style="list-style-type: none"> i. Licensed Civil Engineer ii. At least 5 years of experience in construction management iii. Good oral and written communication skills 3. PROJECT ARCHITECT (1) <ol style="list-style-type: none"> i. Licensed Architect ii. At least 5 years of experience in construction management 4. MATERIALS ENGINEER (1) <ol style="list-style-type: none"> i. Licensed Engineer ii. DPWH Accredited 5. CONSTRUCTION SAFETY OFFICER (1) <ol style="list-style-type: none"> i. Licensed Engineer/Architect ii. DOLE accredited/trained 6. QUALITY CONTROL OFFICER (1) <ol style="list-style-type: none"> i. Licensed Architect/Engineer ii. DOLE accredited/trained 7. ELECTRICAL ENGINEER (1) <ol style="list-style-type: none"> i. Licensed Electrical Engineer ii. At least 5 years of experience 8. SANITARY ENGINEER (1) <ol style="list-style-type: none"> i. Licensed Sanitary Engineer ii. At least 5 years of experience 9. MECHANICAL ENGINEER (1) <ol style="list-style-type: none"> i. Licensed Mechanical Engineer ii. At least 5 years of experience
11.1	<ol style="list-style-type: none"> 1. Photocopy of the receipt of Bidding Documents to be included in the Financial Component Envelope 2. Notarized Statement of acknowledgement of letters, e-mails, and others by the supplier to be included in the financial component

12	<i>No Further Instructions</i>
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 Php1,300,000.00, 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 Php3,250,000.00, if bid security is in Surety Bond.</p>
16	<p>Each Bidder shall submit:</p> <p>TECHNICAL COMPONENT</p> <ul style="list-style-type: none"> One (1) certified true copy and One (1) photocopy <p>FINANCIAL COMPONENT</p> <ul style="list-style-type: none"> One (1) certified true copy and two (2) photocopies <p>(Indicate Component/Document/Copy Number)</p>
19.2	Not Applicable
20	<p>a. Latest and updated Tax Clearance</p> <p>b. Latest and updated PhilGEPS Platinum Membership Certificate</p> <p>c. Bidders must submit latest and updated tax returns filed through the Electronic Filing and Payments System (EFPS).</p>
21	No further Instructions

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	<i>Not Applicable</i>
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor <i>Upon receipt of Notice to Proceed</i>
6	The site investigation reports are: <i>none</i>
7.2	In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The contractor shall submit a detailed program of works within fourteen (14) calendar days after the issuance of the Notice to Commence for approval by the procuring entity that shall include, among others: a. The order in which it intends to carry out the work including anticipated timing for each stage of design/detailed engineering and construction; b. Periods for review of specific outputs and any other submissions and approvals; c. Sequence of timing for inspection and tests; d. General description of the design and construction methods to be adopted; e. Number and names of personnel to be assigned for each stage of the work; f. List of equipment required on site for each stage of the work; and g. Description of the quality control system to be utilized for the project.
11.2	The amount to be withheld for late submission of an updated Program of Work is <i>Php 20,000.00</i>
13	The amount of the advance payment is <i>fifteen (15%) percent of the Contract Price upon approval of the Notice to Proceed.</i>
14	<i>Not Applicable</i>
15.1	The date by which "as built" drawings and operating and maintenance manuals are required is <i>upon request for 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>remaining balance as 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.



BATAAN GENERAL HOSPITAL AND MEDICAL CENTER

Balanga City, Bataan
ISO-QMS 9001 Certified



TERMS OF REFERENCE Design & Build Services

DESIGN AND BUILD OF THREE (3) STOREY E.R. COMPLEX AND POISON CENTER BUILDING (PHASE I)

I. INTRODUCTION

A. Background and Rationale:

The Department of Health is the national agency spearheading the implementation of the Philippine Health Agenda (PHA) under President Rodrigo Roa Duterte's Administration in achieving All for Health Towards Health for All, which shall be directed towards achieving the health system goals of financial risk protection, better health outcomes, sustained health financing and responsive health system by ensuring that all Filipinos, especially the poor, have equitable access to affordable health care. The said agenda shall be achieved by pursuing three thrusts, protection from triple burden of disease, access to functional service delivery networks and attaining and sustaining universal health insurance, one of the strategies in achieving these thrust is improved access to quality hospitals and health care facilities where government owned and operated hospitals will be upgraded to expand capacity and provide quality services to help attain health related sustainable development goal.

B. Objectives

The Hospital Modernization Projects of the Bataan General Hospital and Medical Center is being pursued to support one of the DOH's strategic approaches to improve the delivery of basic, essential, as well as specialized health services through the rationalization and critical upgrading of health facilities.

This Infrastructure Project of Bataan General Hospital and Medical Center will achieve the following major objectives:

1. To increase the bed capacity of BGHMC from 214 beds to 500 beds.
2. To develop BGHMC to meet the ever changing and increasing demands of quality health care delivery; and
3. To upgrade BGHMC to fulfill its role as end-referral hospital in Region 3.

II. PROJECT REQUIREMENTS

A. Preliminary Information/Studies for Design.

III. PROJECT COMPONENTS

Site and space planning were governed by the standards, rules and regulations on the design of Level 3 hospital as prescribed by the Department of Health and other concerned agencies. Building design shall conform to the provisions of the National Building Code of the Philippines (PD 1096), Accessibility Law (BP 344), National Structural Code of the Philippines, Electrical Engineering Law (RA 7920), Mechanical Engineering Law (RA 5336), Plumbing Code (RA 1378, 1993-1994 Revisions), Fire Code (RA 9514) and other laws and regulations covering environmental concerns and local ordinances and regulations.

A. Pre-Detailed Design

1. Engineering Surveys and Investigations
 - 1.1 Surveys and investigations of the site includes boundaries of the property, elevations and contours (at 0.5m interval), soil tests, location, dimension, floor elevations and other pertinent data on existing buildings and improvements (roads, parking areas, mature trees) and existing utility lines (e.g. water, power, telephone).
2. Design Development Drawings
 - 2.1 Preparation of the following drawings for design development based on the schematic plans prepared by the DOH/ BGHMC
 - a. Perspective View
 - b. Floor plans, two (2) sections and four (4) elevations, including complete space allocation.

B. Detailed Design

Preparation of the following Detailed Design Drawings (see DOH Checklist of Drawings Requirements) based on the Design Development Drawings and Design Parameters including any revisions and refinements as approved and required by the DOH/ BGHMC.

- a. Detailed Architectural Plans (refer to Checklist of Drawings Requirements and Design Parameters).
- b. Detailed Structural Plans (refer to Checklist of Drawings Requirements and Design Parameters).
- c. Detailed Electrical Plans (refer to Checklist of Drawings Requirements and Design Parameters).
- d. Detailed Electronic and Communication plans (refer to Checklist of Drawings Requirements and Design Parameters)

- e. Detailed Storm Drain, Sanitary and Plumbing Plans (refer to Checklist of Drawings Requirements and Design Parameters).
- f. Detailed Mechanical Plans (refer to Checklist of Drawings Requirements and Design Parameters).
- g. Structural Computations, including Soil Boring Test Results and Seismic Analysis, Electrical Design Computations and Fire Sprinkler Design Computations.
- h. General Notes and Technical Specifications describing type and quality of materials and equipment to be used, manner of construction and the general conditions under which the project is to be constructed.
- i. Detailed Bill of Quantities, Cost Estimates including a summary sheet indicating the unit prices of construction materials, labor rates and equipment rentals.

C. Construction Work

As a rule, contract implementation guidelines for procurement of infrastructure projects shall comply with Annex "E" and guidelines for the implementation of contracts for DESIGN AND BUILD infrastructure projects shall comply with Annex "G" of IRR, RA 9184. The following provisions shall supplement these procedures:

1. No works shall commence unless the contractor has submitted the prescribed documentary requirements and the DOH/BGHMC has given written approval. Work execution shall be in accordance with reviewed and approved documents.
2. The contractor shall be responsible for obtaining all necessary information as to risks, contingencies and other circumstances which may affect the works and shall prepare and submit all necessary documents specified by the concerned Building Officials to meet all regulatory approvals as specified in the contract documents.
3. The contractor shall submit a detailed program of works within fourteen (14) calendar days after the issuance of the Notice to Commence for approval by the procuring entity that shall include, among others:
 - a. The order in which it intends to carry out the work including anticipated timing for each stage of design/detailed engineering and construction;
 - b. Periods for review of specific outputs and any other submissions and approvals;
 - c. Sequence of timing for inspection and tests;
 - d. General description of the design and construction methods to be adopted;
 - e. Number and names of personnel to be assigned for each stage of the work;
 - f. List of equipment required on site for each stage of the work; and
 - g. Description of the quality control system to be utilized for the project.

4. Any errors, omissions, inconsistencies, inadequacies or failure submitted by the contractor that do not comply with the requirements shall be rectified, resubmitted and reviewed at the contractor's cost. If the contractor wishes to modify the design or document which has been previously submitted, reviewed and approved, the contractor shall notify the DOH/BGHMC within a reasonable period of time and shall shoulder the cost of such *changes*.
5. *As a rule, changes in design and construction requirements shall be limited only to those that have not been anticipated in the contract documents prior to contract signing and approval. The following guidelines shall govern approval for change or variation orders:*
 - a. Change Orders resulting from design errors, omissions or non-conformance with the performance specifications and parameters and the contract documents by the contractor shall be implemented by the contractor at no additional cost to the DOH/BGHMC
 - b. Provided that the contractor suffers delay and/or incurs costs due to changes or errors in the DOH/BGHMC performance specifications and parameters, the contractor shall be entitled to either one of the following:
 1. An extension of time for any such delays under Section 10 of Annex "E" of IRR (RA 9184); or
 2. Payment for such costs as specified in the contract documents, provided, that the cumulative amount of the variation order does not exceed ten percent (10%) of the original project cost.
 - c. The contract documents shall include the manner and schedule of payment specifying the estimated contract amount and installments in which the contract will be paid.
 - d. The contractor shall be entitled to advance payment subject to the provisions of Section 4 of Annex "E", IRR (RA 9184).
 - e. The DOH/BGHMC shall define the quality control procedures for the design and construction in accordance with the DOH guidelines and shall issue the proper certificates of acceptance for sections of the works or whole of the works as provided for in the contract documents.
 - f. The contractor shall provide all necessary equipment, personnel, instruments, documents and others to carry out specified tests.
 - g. This design and build projects shall have a minimum Defects Liability Period of one (1) year after contract completion or as provided for in the contract documents. This is without prejudice to the liabilities imposed upon the engineer/architect who drew up the plans and

specification for building sanctioned under Section 1723 of the New Civil Code of the Philippines.

- h. The contractor shall be held liable for design and structural defects and/or failure of the completed project within the warranty period of 15 years for permanent structures/buildings as specified in Section 62.2.3.2 of the IRR (RA 9184)

IV. IMPLEMENTATION ARRANGEMENT

A. Reporting Protocol

1. Contact Persons

- a. **Glory V. Baltazar, MD, MPH, MHA, CESe**
Medical Center Chief II
Bataan General Hospital and Medical Center
Balanga City, Bataan
- b. **Marjorie Anne D. Mena**
OIC- Chief Administrative Officer
Bataan General Hospital and Medical Center
Balanga City, Bataan
- c. **Engr. John Darrel M. Santos, CE**
Engineer IV
Bataan General Hospital and Medical Center
Balanga City, Bataan

V. ELIGIBILITY REQUIREMENTS:

A. Basic

- 1. The eligibility requirements for Design Scheme shall comply with the applicable provisions of Section 12.1 (a) of the ITB and 12.1 (a) of the Bid Data Sheet (BDS) of this bidding document.
- 2. A modified set of requirements integrating eligibility documents and criteria for infrastructure projects and consulting services shall be adopted in accordance with Annex G - Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects Annex "G" of IRR of RA 9184
- 4. The Design Build Contractor must have completed a similar project in the amount of at least fifty percent (50%) of the ABC. For the purpose of this project, a similar project will be defined as at least Three (3) Storey building, which includes special requirements such as automatic fire sprinkler system, elevator system, communication system, and medical gas line system.

B. Specialized

- B.1 For the Pre-Detailed Design and Detailed Design portion of the contract, the Bidder is required to have or required to enter into a joint venture agreement with an architectural firm that will design the project with the minimum number of professionals as shown below:
1. Design/Principal Architect(1)
 - a. Licensed Architect
 - b. At least 15 years of experience in hospital and hospital-related projects
 2. Junior Architect (2)
 - a. Licensed Architect
 - b. At least 5 years of experience
 - c. Proficient in AutoCAD Software
 3. Structural/Civil Engineer(1)
 - a. Licensed Structural/Civil Engineer
 - b. At least 10years experience in structural design of medium-rise structures
 - c. Proficient in AutoCAD Software
 4. Professional Electrical Engineer(1)
 - a. Licensed Professional Electrical Engineer (PEE)
 - b. At least 10years experience in hospital and hospital-related projects
 - c. Proficient in AutoCAD Software
 5. Professional Mechanical Engineer(1)
 - a. Licensed Professional Mechanical Engineer (PME)
 - b. At least 10years experience in hospital and hospital-related projects
 - c. Proficient in AutoCAD Software
 6. Sanitary Engineer(1)
 - a. Licensed Professional Sanitary Engineer (PSSE)
 - b. At least 10 years in hospital –related projects
 - c. Proficient in AutoCAD Software
 7. CADD Operator (4) (preferably one for Architecture and one for each engineering specialty)
 - a. At least Bachelor's Degree in Architecture or Engineering
 - b. Proficient in AutoCAD Software
 8. Others as required for the project
 - a. The bidder is required to prioritize the hiring of locally-based architects, engineers, and draftsmen especially if such have had experience and training in health facilities projects and design.

B.2. For the construction portion of the contract, the Bidder must assign to the project professionals as shown below:

1. Project Manager (1)
 - i. Licensed Engineer or Architect
 - ii. At least 10 years of experience in construction management
 - iii. Good oral and written communication skills
2. Project Engineer (2)
 - i. Licensed Civil Engineer
 - ii. At least 5 years of experience in construction management
 - iii. Good oral and written communication skills
3. Project Architect (1)
 - i. Licensed Architect
 - ii. At least 5 years of experience in construction management
4. Materials Engineer (1)
 - i. Licensed Engineer
 - ii. DPWH Accredited
5. Construction Safety Officer (1)
 - i. Licensed Engineer/Architect
 - ii. DOLE accredited/trained
6. Quality Control Officer (1)
 - i. Licensed Architect/Engineer
 - ii. DOLE accredited/trained
7. Electrical Engineer (1)
 - i. Licensed Electrical Engineer
 - ii. At least 5 years of experience
8. Sanitary Engineer (1)
 - i. Licensed Sanitary Engineer
 - ii. At least 5 years of experience
9. Mechanical Engineer (1)
 - i. Licensed Mechanical Engineer
 - ii. At least 5 years of experience

VI. APPROVED BUDGET COST

The total approved budget cost for the Project is **SIXTY FIVE MILLION PESOS (Php 65,000,000.00)**

VII. TIME FRAME

The Design Firm/ Contractor is required to complete the Project within an indicative period as shown below, to start upon the contractor's receipt and signing of Notice to Proceed. The time frame to be followed for the project is as follows.

ACTIVITY	MONTHS													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Pre-Detailed Design and Detailed Design														
Construction including Application and Issuance of Building Permit and Acceptance and Turnover														

VIII. SCOPE OF WORKS

1. Pre- Detailed Design
 - A. Geodetic Survey of lot and structures
 - B. Topographic Survey
 - C. Soil Boring Test Results, Analysis and Report (3 bore holes)
2. Detailed Design Works
 - A. Detailed Architecture and Engineering Design (Refer to Checklist of Drawings)
 - B. Technical Specifications
 - C. Bill of Quantities
 - D. Detailed Cost Estimates
 - E. Detailed Summary of Works
3. General Requirements
 - A. Building Permit, Licenses and other required Permits
4. Construction Works
 - A. Site Preparation Works
 - i. Temporary Facilities
 - ii. Temporary Utilities
 - iii. Excavation Works
 - iv. Backfill Works
 - v. Soil Poisoning
 - vi. Demolition/ relocation of all structures/ utility system to be affected by the construction
 - a. All Electric Posts (including the primary poles in front of the hospital)
 - b. Signage Post
 - c. Concrete Fence including gates
 - d. Guard House
 - e. Triage Area
 - f. Septic tank
 - g. Others as needed

B. Structural and Civil Works

- i. Foundation, beams, columns, slabs, shear wall
- ii. Interior and exterior walls and parapet (including plastering)
- iii. Roof Framing
- iv. Road, Ramps, Walkways
- v. Connecting Bridge
- vi. Septic tank
- vii. Fire Exit Stairs
- viii. Cistern tank and Pump house
- ix. Protection of existing Structures, utility systems during construction

C. Architectural Works

- i. Architectural Metal Works
- ii. Thermal Protection, insulation, waterproofing, damp proofing and Roofing (Including glass roof outside the building)
- iii. Complete Ceiling Works
- iii. Complete Tile Works
- iv. Doors, windows (including grills) and fenestration
- v. Nurses Stations, Counter tops

D. Complete Sanitary/Plumbing Works

- i. Fixtures, fittings and accessories
- ii. Sewer line and Vent system
- iii. Wastewater line and vent system
- iv. Cold Waterline system
- v. Storm Drainage system
- vi. Septic Tank
- vii. Complete Water Supply System
- viii. Air-conditioning units Drainage system
- ix. Tapping of Septic Tank to STP

E. Electrical and Communications Works (Rough-in)

- i. Electrical System
 - Includes feeder line from electrical room to generator house
- i. Auxiliary System
 - a. Communications system including telephone system, LAN system, PABX, Public Address Paging System
 - b. Fire Alarm System
 - c. Security System (CCTV)

F. Mechanical Works (Rough-in)

- i. Automatic fire sprinkler system
- ii. Air-Conditioning, Ventilation and Filtration system
- iii. Medical Gas system


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IX. DESIGN PARAMETERS

SUBJECT : ARCHITECTURAL DESIGN PARAMETERS

I. Codes and Standards

The Architectural Works shall be in accordance with the following Laws, Codes and Standards.

□ Laws and Codes:

1. National Building Code of the Philippines and its Latest and Amended IRR
2. RA 9266 or Architecture Law and its Latest and Amended IRR
3. RA 4226 or Hospital Licensing Act and its Latest and Amended IRR
4. BP 344 or Accessibility Law and its Latest and Amended IRR
5. AO 35, s. 1994 or AO Pertaining to the Control of Radiation Hazards
6. RA 9514 Fire Code of the Philippines
7. Existing Local Codes and Ordinances.
8. And other Laws that applies to the projects

□ Standards:

1. Bureau of Product Standards (BPS)
2. Underwriters Laboratory (UL)
3. DOH Technical Guidelines for Hospital & Health Facilities Planning and Design

II. General Drawing Guidelines

1. General

- ☐ All drawings shall be computer-drafted. Drawings shall be submitted both in printed and electronic copies.
- ☐ Keep the same orientation for all plans. The north orientation shall be indicated in all architectural floor plans. The orientation of the architectural plans shall be consistent with all the engineering plans.
- ☐ Existing buildings and new works shall be clearly indicated and labeled in the site plans.
- ☐ Detailed plans shall have a scale not smaller than 1: 50 meters.
- ☐ Spot detailed plans, elevations, and sections shall have a scale not smaller than 1: 10 meters.
- ☐ Avoid notes such as 'see architectural detail' or 'see structural'.

Always refer with a callout to the specific detail drawing and sheet number.

2. *Perspective*

- In the most appreciable scale, show the entire structure's façade or prominent feature/s; include appropriate elements to scale the structure's volume (e.g. human figures, vehicles, trees and vegetation, adjacent structures)

3. *Site Development Plan*

- The site development plan shall have a scale not smaller than 1:400 meters and shall show the structures in relation to each other and its natural or built surroundings.
- Site Development Plan shall include the following:
 - a. Contour and survey of the lot, including bearing and distance of the property line
 - b. Road network and curbs and sidewalks
 - c. Parking spaces
 - d. Reference location of existing trees
 - e. Reference location and footprint of existing buildings, with the corresponding building names and dimensions, including distances between adjacent buildings, and distances between buildings and the nearest property line
 - f. Reference location of utilities, e.g. water reservoirs, septic tank, wastewater treatment plant, powerhouse, transformers, waste storage area, security outposts and waiting sheds
 - g. Site furniture and other site features
- Identify building/structure name and its corresponding number of storeys/levels
- Reflect modules and total dimension of structures
- Indicate dimensions of all other site elements.
- The layout of the buildings on the site shall be zoned according to the service it provides:
 - The outer zone shall include all front line services, e.g. emergency, out-patient, x-ray, laboratory and other ancillary department.
 - The inner zone shall include the wards.
 - The deep zone shall include services like the operating room, delivery room, nursery, intensive care unit and other sensitive hospital services.
 - The service zone shall include non-medical services but are essential to hospital operations, e.g. dietary, engineering, linen and laundry, and morgue.
- There shall be a separate road network and entry/exit for the public and the service vehicles, e.g. ambulance, waste collection vans, delivery trucks.

4. *Vicinity Map/ Location Plan*

- Locate the project site in an vicinity map (at least 2 kilometer radius) showing districts/political subdivision, major landmarks, institutions, major thoroughfares

- Locate the project site in a location map (at most 2 kilometer radius) showing major and minor road networks, establishments, markers, etc.

5. Floor Plans

- All plans shall be 1: 100 meters. The same scale shall be used for the rest of the architectural, structural, sanitary, plumbing, electrical and mechanical plans, except for each trade's site plan, detailed plans and spot details.
- For renovation/modification works involving the existing structure, indicate architectural and structural elements to be retained, demolished/removed, blocked off, constructed or relocated.
- Unless areas are indicated for blow-up details, indicate dimensions for all floor plan elements.
- Elevation callouts shall be indicated on the floor plans and shall be consistent with the elevation drawing.
- Section line callouts on the floor plans shall be consistent with the section drawing.
- Detail callouts shall be consistent with the blow-up/spot detail drawings.
- Other callouts may be used for toilets, stairs, cabinets, etc.
- Floor elevations shall be indicated in the floor plans. This shall be in reference to the natural grade line or the established finished floor lines of the adjoining existing buildings.
- Door callouts shall be circles with the proper numbering, e.g. D-01.
- Window callouts shall be hexagons with the proper numbering, e.g. W-01.

6. Elevations

- Provide at least four elevations. However, if structure is clustered (polygonal or with interior openings), provide elevations for all exterior walls.
- Indicate measurements for finish floor levels and notable building heights (eg roof/s, parapet/s, canopies, spires, towers and other projections) where applicable
- Indicate measurements for other surface features/elements
- Finish floor lines and top of truss/roof deck lines shall be consistent to all the elevations, sections and structural plans and details.
- The height from finish ground line to finish ground floor line shall be higher than the recorded flood level of the area for the past five (5) years
- Indicate all wall finishes, detail callouts for spot details.

7. Sections

- Provide at least two sections. However, if structure is clustered (polygonal or with interior openings), provide additional sections to show notable features.
- Indicate measurements for finish floor levels, ceiling heights, wall heights and other notable dimensions
- Indicate interior wall finishes, detail callouts.

8. *Roof Plan*

- ☐ Indicate roof finish/es, slope and slope direction.
- ☐ Indicate gutter finish, if applicable.
- ☐ Indicate exterior building wall line (hidden line).
- ☐ Indicate downspouts, if applicable
- ☐ Provide details for gutters, downspouts

9. *Reflected Ceiling Plans*

- ☐ Indicate on plan ceiling finishes, lighting and other ceiling fixtures and accessories.
- ☐ Ceiling height relative and in reference to the finish floor line shall be indicated in the reflected ceiling plan in each room with boxed dimensions. This is to ensure that the ceiling heights of all rooms are established whether or not reflected in the sections.
- ☐ The description and location of the fixtures, e.g. lighting, smoke detectors, aircondition vents, exhaust fans, in the reflected ceiling plan shall be consistent with the electrical and mechanical plans.
- ☐ Provide details for ceiling features, where necessary.

10. *Stairs, Fire Escape Exit, Ramps*

- ☐ Present blow-up plan including detail section/ elevation and spot details for all stairs, fire exits, ramps on a scale of not smaller than 1:50m. Indicate dimensions and finishes.

11. *Toilets, Baths, Washing area/room*

- ☐ Present blow-up plan including detail section/elevations (to show all sides of the room) and spot details on a scale of not smaller than 1:50m. Indicate dimensions, elevations, clearances, center lines, slopes, fixture type, finishes and accessories.
- ☐ Provide fixture detail and accessories including mounting heights from finish floor levels.

12. *Specialized Design*

- ☐ Provide detailed/shop drawings for built-up or pre-assembled partitions, cabinets, closets, counters, lockers, etc.

13. *Bay Section*

- ☐ Provide bay section/s of scale not smaller than 1:50m for exterior walls showing in detail, systems, connections for the entire vertical length from basement/ground to topmost elements (roof, parapet, deck)

14. *Doors and Windows*

- ☐ Provide Door and Window schedules indicating the type of door or window, the number of sets, the location/s of the door or window, the materials and accessories and other special specifications, e.g. color or finish, operation system and the detailed elevation and plan (where necessary).

15. *Schedule of Materials*

- In matrix form, identify floor, wall, ceiling, counter and other accessories/ornaments finishes for all rooms/areas on plan.

16. *Details*

- Provide a minimum of one (1) bay section of a scale not smaller than 1 : 50 meters for each major building preferably cut along the area with special construction design.
- Provide spot detail plans, elevations and sections of a scale not smaller than 1:10 meters for special designs with aesthetic treatment and ornamentation.
- Provide detail plans of a scale not smaller than 1 : 50 for all areas needing tile pattern, e.g. lobby, corridor, entrance walk, showing the position and pattern of tiles.
- Centerline location of plumbing fixtures shall be indicated in detail plans with lines of reference and its corresponding dimensions. This is to indicate the exact locations of the plumbing/sanitary roughing-in

III. Building Architectural Works

1. *Floor Plans*

- The structural, sanitary, plumbing, electrical and mechanical designs are required to refer to the architectural plans and specifications in case of discrepancies. If an engineering design will have any possible conflict or interference on the architectural design, the latter may be adjusted provided that the aesthetic value will not be compromised.
- The architectural and engineering plans shall be consistent all throughout in terms of dimensions and locations of columns, beams, walls, roof line, conduits, ducts, pipes, and fixtures, among others. Column and beam grid lines shall also be consistent in all the architectural and engineering plans.
- Verify and coordinate floor plans with the mechanical, electrical and sanitary design with regard to the requirements for mechanical rooms, AHU rooms, electrical rooms, pipe chase, and other engineering requirements.
- Public toilets shall have provisions and fixtures for persons with disability as required by BP 344. If enough space allows, toilets specially made and designated for persons with disability is preferable.

2. *Walls*

- Exterior walls shall be 200mm. thick, while interior walls shall be 150mm. thick. This is indicative of the finished wall thickness including the plastering and tile works.
- The walls of the rooms for X-ray/CT Scan/MRI, and other radioactive equipment shall conform to the requirements of the manufacturer's specifications and as regulated by the Bureau of Health Devices and Technology (BHDT) by virtue of DOH-AO 35, s. 1994 or AO Pertaining to the Control of Radiation Hazards
- Toilet wall tiles shall be 200mm. X 300mm. for areas of six (6) square meters or below. Toilet wall tiles shall be 300mm. X 300mm. for areas above six (6) square meters.

- Layout and work on wall and floor tiles must be aligned, plumb, level, and square.
- All edges, corners and intersections of toilet tiles, including the top-most tile not reaching the ceiling shall be provided with polyvinyl chloride tile trims
- Tile color and design shall be approved first before installation
- Where applicable, walls shall be protected against abuse using bump guards and rails, corner guards, baseboards, wainscot especially in heavy traffic and public areas

3. Floors

- If floor tiles in two adjacent rooms with different material, color or design meet at the door opening, the cut shall be located middle of the door thickness when in a closed position. Provide details in the floor pattern design.
- Floors at the openings of toilets for persons with disability shall be sloping. Indicate in the plans and sections.
- The size of the toilet floor tiles shall be 300mm. X 300mm. for areas of six (6) square meters or below. Toilet floor tiles shall also be 300mm. X 300mm. for areas above six (6) square meters. Indicate the tile pattern.
- The size of the floor tiles of the offices and wards shall be 600mm. X 600mm, or bigger depending on the proportion to the size of the room. Indicate the tile pattern.
- The size of the floor tiles of the lobby and corridor shall not be less than 600mm. X 600mm. The tile size of 600mm. X 600mm. is recommended for bigger areas. Indicate the tile pattern.
- Layout and work on wall and floor tiles must be aligned, plumb, level, and square.
- All edges, corners and intersections of toilet tiles, shall be provided with polyvinyl chloride tile trims.
- Tile color and design shall be approved first before installation.

4. Ceiling Works

- The following rooms shall have ceiling height of:
 - a) Operating Room – 3000mm to accommodate the ceiling-mounted OR Light
 - b) Cath Laboratory - 3000mm to accommodate the ceiling-mounted equipment
 - c) Xray Room – 2700mm to accommodate the ceiling-mounted equipment
 - d) Xray/ CT Scan/ MRI Room - 2700mm to accommodate the ceiling-mounted equipment
- Ceiling finishes shall be of type appropriate to the location where it is applied. Ceiling material shall be of premium grade and quality performance; easily replaced and maintained. Ceiling materials must at least have flame-spread rating
- Ceiling height for areas with special aesthetic treatment, e.g. lobby, major conference room, auditorium, executive office, shall be proportional to the area or room or as required by the designer. However, this shall not be lower than 3000mm. Provide details.

- ☐ If acoustic boards on aluminum T-runners would be used for the ceiling, layout should be on center and avoiding cut pieces. If the remaining perimeter of the ceiling is less than 600mm. wide, it shall be designed complimentary with fiber cement boards on light gauge metal furrings. Likewise with acoustic boards in big areas, e.g. offices, and wards, shall be designed in a way to break the redundancy. Provide details.
- ☐ For board ceiling (gypsum, fiber cement, particle, etc, of size 1200mm x 2400mm) construct in maximum cut size of 600mm x 600mm (maximum) to avoid injury or damage in case of falls.
- ☐ For strip ceilings (g.i., aluminum, vinyl, composite), layout shall eliminate as possible connections. Should connections are inevitable; provide intervals such as false beams, bands, strips to conceal ends.
- ☐ Ceiling at eaves or at other open/exposed areas shall be designed with wind load considerations.
- ☐ Provide manholes for maintenance work, where applicable.
- ☐ Soffit of exterior beams and slabs shall have drip moulds to prevent damage due to water sipping into the eaves or ceiling. Section details shall be required to show the drip mould.

5. *Architectural Metals*

- ☐ Railings must be 304 stainless steel
- ☐ Exposed Aluminum composite panels shall be at less 4mm thick PVDF.
- ☐ Aluminum composite panels used for indoors should at least be 3mm polyester.
- ☐ Other metals for decorative purposes

6. *Doors and Windows*

- ☐ Major rooms that require security shall have sturdy doors e.g. wood panel, and metal.
- ☐ Minor rooms that do not require security shall at least have wood flush doors.
- ☐ Toilets and other wet areas shall have marine plywood flush doors painted with epoxy paint.
- ☐ Heavy-use doors, e.g. main entrance, should be provided with stainless steel kick or push plates and door closers.
- ☐ Fire escape doors, should be provided with panic hardware and door closers, and shall conform with the requirements of the Fire Code of the Philippines.
- ☐ Aluminum frames of glass doors shall be powder-coated.
- ☐ Door finish and color shall be approved first before application.
- ☐ All glass panels for doors and windows on exterior walls shall at least be 6mm thick and tempered.
- ☐ Window sills shall be slightly sloped outwards to prevent damage to windows and paint due to water seepage. Section details shall be required to show this slope.
- ☐ All doors of a high-occupancy room shall swing outwards and as required by the Fire Code of the Philippines
- ☐ Door jambs with no moulding/casing installed on concrete walls shall have construction grooves all around. Provide details.
- ☐ All doors and windows shall have reinforced concrete lintel beams. Provide details.

7. Stairs and Corridors

- ☐ Regular stairs shall have risers at 150mm. high and treads at 300mm. wide. Fire stairs could have a maximum riser at 200mm. and tread at 250mm. Handrails shall be 1100mm. high. Clearances shall conform with the requirements of the Fire Code of the Philippines.
- ☐ Corridors shall have a minimum unobstructed width of 2450mm. This shall be measured clear from the surface of the finished wall and not on-center of the rough CHB wall.
- ☐ Corridors shall not be areas for temporary or permanent storage of stretchers, wheelchairs, trolleys, food carts, oxygen tanks or other movable hospital equipment. Storage or parking spaces shall be provided for these.
- ☐ Corridors and exit doors shall conform with the requirements of the Fire Code of the Philippines.

8. Fixtures and Accessories

- ☐ Three-way electrical light switches shall be provided at the foot and the top of the stairs per floor. Likewise at both ends of a long corridor.
- ☐ Electrical light switches shall be located by the knob side of the door.
- ☐ Electrical switches and outlets shall be installed plumb and level.
- ☐ Public toilets shall always be provided with heavy-duty soap dispensers and electric hand dryers.
- ☐ Public toilets shall always be provided with stainless steel handrails in conformity to the requirements of BP 344.
- ☐ A drainage line shall be provided for window-type air-conditioners. Likewise, split-type air-conditioners located in the interior part of the building shall be so located adjacent to areas with drainage lines, e.g. toilets, downspouts, balconies.

9. Roofing Works

- ☐ The section of the roof gutters shall be designed, in case of a clogged downspout, so that the overflow of water will be directed outside of the building and not towards the eaves or interior ceiling to prevent any damage. Provide details.
- ☐ Avoid valley or inside gutters in roof design. But in cases required in aesthetic design, valley or inside gutters shall be in stainless steel or concrete gutters with membrane-type waterproofing, and the section shall be designed with a capacity for big volume to prevent any damage due to overflow. Provide details.
- ☐ Parapets, designed as a roof protection from the winds, must be designed to satisfy the preceding parameters. Provide details.
- ☐ The slope of the roof shall not be less than 30 degrees.

10. *Painting*

- ☐ Painted ceiling shall be in at least latex finish, while cornices and mouldings shall be in gloss enamel finish.
- ☐ Painted interior wall shall be at least in semi-gloss latex finish for ordinary rooms, e.g. offices, unless specified to a higher type of paint.
- ☐ Patient-related rooms, e.g. wards and isolation rooms, shall be in anti-bacterial and odor-absorbent paint finish.
- ☐ Painted exterior wall shall be at least in moisture-resistant/water-repellant solvent-based paint finish, textured or smooth, unless otherwise specified.
- ☐ All painting works shall be full-putty.
- ☐ Paint color and shade shall be approved first before application.

11. *Special Features and Furnishing*

- ☐ Modular counters and cabinets for Nurse stations, receiving/reception.
- ☐ Modular Nurse Station work benches
- ☐ Modular treatment room sink counters
- ☐ Curtain and track system
- ☐ Freestanding 304 stainless steel Utility sink and counters
- ☐ Built-up 304 stainless steel slop sinks

1.2. **Specific Requirements**

Provide spot detail plans and sections of the following:

1. Gutter and eaves.
2. Ceiling – cove light, special connections and design, mouldings, valances
3. Stairs - handrail, and baluster design
4. Ramps - handrail design and floor pattern
5. Doors, windows and gates - grille works,
6. Special Architectural Treatment and Design, e.g. façade design, special window and door, counter/nurse station counter
7. Special Carpentry Works, e.g. partitions, cabinetry ,
8. Auditorium Stage
9. Other details as may be required

V. Summary of Materials

- ☐ Materials to be used shall be fire-resistant, non-toxic, moisture-resistant and termite-resistant, e.g. fiber cement board, light-gauge steel frame, polyvinyl chloride ceiling panels.
- ☐ Wet areas, e.g. toilets, and kitchen shall use non-skid/non-slip vitrified ceramic floor tiles.
- ☐ Heavy traffic areas, e.g. lobby, and corridor shall use heavy-duty seamless granite floor tiles or a higher type of floor material. .
- ☐ Ramps and stairs shall use non-skid/non-slip floor tiles, materials as specified.
- ☐ Aluminum T-runners shall be powder coated.
- ☐ Metal rod hangers with adjustable clips, and not galvanized iron wires, shall be used to support and suspend the aluminum T-runners and light gauge metal furrings.
- ☐ Roofing sheets shall be Ga.# 24(0.5mm) aluminum-coated, pre-painted, and pre-formed.

VI. Drawing Requirements: See attached DOH checklist of drawings.

---End of Scheme---



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SUBJECT: DESIGN PARAMETERS (STRUCTURAL/CIVIL WORKS)

I. Codes and Standards

The Civil/Structural Design shall be in accordance with the following Codes and Standards

Codes

1. National Structural Code of the Philippines (NSCP) 2001
2. National Building Code of the Philippines and its revised IRR
3. Accessibility Law
4. Local Codes and

Ordinances Standards

1. Bureau of Product Standards (BPS)
2. Philippine National Standards (PNS)
3. DPWH Blue Book
4. American Concrete Institute (ACI)
5. American Society for Testing Materials (ASTM)
6. American Welding Society (AWS)

II. Site Works

Based on Master Site Development Plan of the Hospital, provide where applicable complete design and details of hospital road (concrete with curb and gutter, including drainage) network, walkways parking areas and fencing.

1. The main hospital road shall have a minimum thickness of 150mm (8 inches). Concrete strength should be at least 3000psi. Interior road (leading to support facilities) shall be so designed to accommodate delivery vehicles, and fire trucks in case of emergency.
2. Walkway should be at least 100mm thick with concrete strength of 2500psi. Ramps should be provided, instead of steps, for any change in elevations.
3. Parking area slabs should be at least 150mm thick with concrete strength of 3000psi.
4. Fences should be see through in front of the hospital while the three (3) other sides should be concrete hollow blocks with minimum height of 2 meters and to be provided with perimeter lighting. See-through fence design will be made of 32mm square bars spaced at 100mm on center and provided with three (3) concrete hollow blocks (45mm high) zoccalo wall.

III. Buildings

1. The hospital buildings should be designed using seismic importance factor of 1.25 for immediate occupancy category. Buildings should be designed in accordance with NSCP Requirements up to Magnitude 7 for those near seismic source Type A. Seismic gaps between buildings (old and new) should be properly observed.
2. The hospital buildings should be designed also using wind importance factor of 1.15 (especially for design of trusses/roofing system). Concrete gutters and parapet walls should be provided as additional protection to the roofing system during strong typhoons.
3. The structural designer should verify with Philippine Volcanology and Seismology (PHIVOLCS) the distance of the proposed hospital to nearest active fault lines and with the DENR for geo-hazard mapping.
4. Soil investigation (at least three bore holes) should be conducted to determine soil bearing capacity and recommended foundation design (applicable even for one storey structure).
5. The structural designer is encouraged to use fire-resistive and non-toxic materials.

IV. Details – the following shall be provided:

1. Connection details of beams and columns following the requirements of NSCP on confined areas.
2. Connection of trusses to beams and columns
3. Splicing details of reinforcing bars on columns and beams and the required bar cut-off points.

V. Summary of Materials

1. Concrete shall be Portland cement and conforming to ASTM Specification C150, Type I to Type II
2. Coarse Aggregates shall consist of washed gravel, crushed stone or rock or a combination thereof conforming to ASTM C33
3. Concrete Hollow Blocks shall be a standard product of recognized manufacturer conforming to PNS 16 with at least 350psi strength.
4. Reinforcing Bars shall conform to PNS Grade 60 for 16mm dia. and above and PNS Grade 40 for 12mm dia. and below.
5. Structural steel shall conform with ASTM A36/A6M
6. Bolts and Studs shall conform with ASTM A 325
7. Welding electrodes shall be E60 or E 70 and conform with AWS
8. Ready Mixed Concrete, with min strength of 3000psi @ 28CD in all structural Members.

VI. Drawing Requirements: See attached checklist

---End of Scheme---



SUBJECT : SANITARY/PLUMBING DESIGN PARAMETERS

I. Codes and Standards

The Sanitary/Plumbing Design shall be in accordance with the following Codes and Standards.

Codes:

1. National Building Code of the Philippines and Its New IRR
2. Fire Code of the Philippines
3. National Plumbing Code of the Philippines (NPCP)
4. Sanitation Code of the Philippines
5. Existing Local Codes and Ordinances.

Standards:

1. Bureau of Product Standards (BPS)
2. Philippine National Standards for Drinking-Water
3. Underwriters Laboratory (UL)
4. DOH National \ Laboratory (NRL)
5. DOH Health Care Waste Management Manual
6. National Water Resources Board (NWRB)
7. National Plumbers Association of the Philippines (NAMPAP)
8. Philippine Society of Sanitary Engineers, Inc. (PSSE)

II. Site Works

Based on the Master Site Development of the Hospital, the Site Works shall provide complete layout of the following:

1. Storm Drainage Network, indicating Drainage Manholes and Pipe Culvert;
2. Sewerage Pipe Network, indicating Sewage Manholes, Sewage pipes and the location of the proposed Sewage Treatment Plant; and
3. Water Supply Network, indicating the location of Water Service entrance, Cisterns, Elevated Water Tank and proposed Pump House and Main Water lines.

The Storm Drainage Network shall accommodate the magnitude of peak rates of surface run-off including drainage coming from the buildings. The system shall be capable of handling the design flows routing to the designated outfall;

For sizing of drainage pipes, refer to Chapter II, National Plumbing Code of the Philippines and current rainfall record from PAGASA.

The Sewerage Pipe Network design shall accommodate all sewage coming from all the facilities, conveyed by gravitational flow leading to the proposed Sewage Treatment Plant;

Per capita wastewater demand: 150-250 gal/capita/day per bed

The Water Supply Network shall include the provision of Fire Hydrants and blow-off valve, accessible faucet that will serve as testing point for safe and potable water supply and shall include all necessary protection to protect the main water supply source;

Provide stainless steel Elevated Water Tank for each building with a capacity of 11,000 liters including pumps, fittings and accessories.
Per capita water demand: 190-315 gal/capita/day per bed

III. Building Facilities Sanitary/Plumbing System

1. Sewer line and Vent System

Provide complete Sewer line and Vent System from all (Domestic) plumbing fixtures and floor drains, laid by gravity flow/pumping from lift/transfer station leading to the Sewage Treatment Plant (STP);

For Drainage Fixture Units; refer to Chapter 7, Table 7-2, NPCP

2. Wastewater line and Vent System

For all Areas dealing with Laboratory activities and generating infectious wastes, provide separate Wasteline and Vent System routing into a proposed Neutralization Tank prior to discharge to the Sewage Treatment Plant;

For all Wash Areas dealing and generating with oil/grease at the Dietary, provide separate Wasteline and Vent System and solely tap to the proposed Grease Trap and then connect its effluent to the Sewage Treatment Plant.

For Drainage Fixture Units; refer to Chapter 7, Table 7-2, NPCP

3. Waterline System

Provide complete cold water supply pipes to all plumbing fixtures. From the main water source to the cistern, the water shall be pumped to the Elevated Water Tank (EWT) and conveyed to the fixtures by gravity system and or distributed to fixtures by transfer pumped with constant pressure through a Pneumatic Storage Tank for all water closet using direct flush valve, .

Provide complete Hot water system with portable water heaters for selected Areas as required and or specified by the Owner.

4. Storm Drainage System

Complete Storm Drainage System shall be provided for all roofs, canopies, concrete ledges and balconies including condensate drains laid for gravity flow connected to a leader/pipe line leading to the natural ground level storm drainage network.

IV. Specific Requirements

Provide details of the following:

1. Grease Trap (for Dietary and Motorpool) (if applicable)
2. Neutralization tank (if applicable)
3. Cistern Tanks and Elevated Water Tanks (if applicable)
4. Connections to main water source

V. Summary of Materials

- Sewer and Vent pipes; Unplasticized Polyvinyl Chloride (uPVC) extra series 1000 (Conforming to ISO 4435 ASTM D2729 including Trims and Fittings)
- Storm Drainage pipes; Downspouts, Unplasticized Polyvinyl Chloride (uPVC) extra series 1000(Conforming to ISO 4435 ASTM D2729 including Trims and Fittings , BPS Certified)
- Drainage Pipes; 250mm dia. and below, Non-Reinforced Concrete Pipe (NRCDP)
300mm dia. and above, Reinforced Concrete Pipe (RCDP)
- Drainage Manholes; Street Inlet, Curb Inlet, Traffic Type Reinforced Concrete Area drain/Catch Basin, Reinforced Load Bearing CHB
- Sewage Manholes; Traffic Type Reinforced Concrete with Cast Iron Cover, seated type.
- Wastewater pipeline; Wash areas /Dietary (same as sewer & vent) for Laboratory-hdpe pipes and fittings, PN16
- Cleanouts; HQ Stainless/ Brass with counter sunk plug (BPS Certified)
- Floor Drains/Deck Drains; HQ Stainless/ Brass (BPS Certified)
- Gutter Drains; Cast Iron Dome Type Brass (BPS Certified)
- Cold Waterline pipes; for buildings, Polypropylene Pn16 Fusion Weld Pipes including Trims and Fittings (BPS Certified) PN20
- Hot Waterline System; for buildings, Polypropylene Pn20 Fusion Weld Pipes including Trims and Fittings (BPS Certified)
- Trench Grating; Galvanized/Stainless Steel Iron grates
- Plumbing Fixtures including Trims, Fittings and accessories; (BPS Certified)
 - a) Water Closet-Direct Flush Valve
 - b) Lavatory-(Semi-Pedestal/Counter Type) with C-spout spray faucet
 - c) Kitchen Sink-Ga#16 Stainless Steel seamless bowl with gooseneck faucet
 - d) Urinal-Wall hung Flush valve/lever/push button or waterless type

- Plumbing Fixtures at Sterile Areas :
 - (a) Scrub up sink Ga#16 Stainless Steel (single/double bowl) compartment with foot operated and or sensor controlled spray faucet compartment with C-sprout spray faucet
 - (b) Surgical soap dispenser –Ga#16 Stainless Steel foot operated
 - (c) Laboratory Sink – Ga#16 Stainless Steel deep seated seamless bowl with C-Spout spray faucet

VI. Drawing Requirements: See attached DOH checklist standards based on Revised IRR of the National Building Code of the Philippines (PD 1096)

---End of Scheme ---



SUBJECT : MECHANICAL WORKS DESIGN PARAMETERS

I. Codes and Standards

The Mechanical Design shall be in accordance with the following Codes and Standards.

Codes:

1. National Building Code of the Philippines and Its New IRR
2. New Fire Code of the Philippines
3. Mechanical Engineering Code of the Philippines (ME Code)
4. Existing Local Government Codes and Ordinances.

Standards:

1. Bureau of Product Standards (BPS)
2. Philippine National Standards (PNS)
3. Underwriters Laboratory (UL) and Factory Mutual (FM)
4. International Electrotechnical Commission (IEC) 1988
5. National Fire Protection Association (NFPA)
6. National Fire Protection Association (NFPA) 99 Standard for Health Care Facilities.
7. American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).
8. Center for Disease Control and Prevention (CDC) Manual.

II. Automatic Fire Sprinkler System

The automatic fire sprinkler system shall be composed of complete plans and drawings of the following:

1. Site Development Plan and Vicinity Map, indicating the location of the buildings, firewater reserve tank, firewater line, yard loop and private fire hydrant.
2. General Notes, Legends and Symbols including Schematic Diagram of the Fire Sprinkler System and Schematic Diagram of Alarm Monitoring System.
3. Floor Layout and Isometric Layout of the Automatic Fire Sprinkler System indicating pipe sizes and the location of the pipes, valves, sprinkler heads, riser nipples, fire hose cabinets, sprinkler main riser, drain pipes, cross mains, branch lines, inspector's test connections, hangers and sway braces.
4. Equipment Schedule, Detail drawings, fire pump and jockey pump layout.
5. Architectural, Structural, Electrical and Plumbing drawings of the Firewater tank and Pump house.
 - ☐ An automatic fire sprinkler shall be provided in all hospital building.
 - ☐ Hazard Classification shall be Light Hazard Occupancy.
 - ☐ Area of coverage shall be 146 square meters and water density shall be 4.07 lbs/sq. m.
 - ☐ Protection area per sprinkler head shall be 20 square meters at 2.2 meters minimum distance between sprinklers and 3.0 meters maximum

- ☐ All floor control valves shall be equipped with supervisory switch, water flow detector and drain system.
- ☐ Water supply shall be horizontal split case centrifugal fire pump with diesel engine or AC motor and a vertical in-line jockey pump with controller.
- ☐ Firewater reserve tank shall be ground level monolithic concrete tank sized for a minimum of 30 minutes.
- ☐ Hydraulic calculations report shall be based on NPFA-13 format.

III. Ventilation and Air-conditioning System

The ventilation and air conditioning system shall be composed of complete plans and drawings of the following:

2. General Notes, Legends and Symbols including Schematic Diagram of the Ventilation and Air Conditioning System.
 3. Floor Layout of the Ventilation and Air Conditioning System indicating the capacity and location of the air conditioners and fans.
 4. Duct layout indicating duct sizes, route and location of the dampers, diffusers, return air register, hangers and sway braces.
 5. Refrigerant piping layout indicating pipe sizes, location of valves, hangers and sway braces.
 6. Equipment Schedule and Details drawings of Air Conditioners and Ventilating System.
- ☐ Air conditioning system shall be provided in all patient's rooms, radiologic and imaging area, operating rooms, delivery rooms, laboratories, critical care areas, offices and other areas where conditioned air is necessary.
 - ☐ Cooling Load calculations report shall be manual or computer generated, hourly analysis program which includes heat transmission coefficients, solar heat gain factors and corrected cooling load temperature difference calculations.
 - ☐ Window type air conditioners shall be used in areas with exterior wall exposure.
 - ☐ Design of all critical areas shall be laminar or positive pressure, wherein the supply air is 10% more than exhaust air. Shall be equipped with HEPA Filter
 - ☐ All infectious isolation rooms, such as TB and SARS, shall be negative pressure, wherein the exhaust air is more than 10% of the supply air. Shall be equipped with HEPA filter.
 - ☐ Maintain an air change rate greater than or equal to 12 air changes per hour or 145 liters per second per patient.
 - ☐ Ceiling cassette type exhaust fans with integral air diffuser shall be provided in all toilets.
 - ☐ Ceiling fans, orbit type with 360° oscillation or wall fans shall be provided in all non-air conditioned rooms.

IV. Medical Gases and Vacuum System

The pipeline system of medical gases and vacuum shall be composed of complete plans and drawings of the following:

1. Site Development Plan and Vicinity Map, indicating the location of the buildings, medical gases manifold and vacuum housing.

2. General Notes, Legends and Symbols including Schematic Diagram of the Medical Gases and Vacuum System and Schematic Diagram of Alarm Monitoring System.
3. Floor Layout and Isometric Layout of the Medical Gases and Vacuum System indicating pipe sizes and the location of the pipes, valves, zone valves, alarms, outlet stations, cross mains, branch lines, hangers and sway braces.
4. Equipment Schedule, Details drawings and equipment layout.
5. Architectural, Structural, Electrical and Plumbing drawings of the Medical Gases and Vacuum Housing.

- Medical gases and vacuum system shall be provided throughout the hospital.
- Medical gas supply system shall be provided through manifold system and bulk system.
- The pipeline system shall be equipped with zone valves and alarm system.
- Vacuum pumps shall be duplex type each with a capacity to handle the total load without loss of vacuum in the system.
- Gas outlets shall be single, double, triple or more units for the following services; oxygen, air, nitrous oxide and vacuum.
- Flow calculations shall be based on NFPA 99 Standard for Health Care Facilities.
- Piping shall be of seamless type "K" or "L" hard tempered copper tubing suitable for silver brazing. Joint and fittings for copper tubing shall be cast bronze designated for brazing.

(a) **Elevator System**

The elevator system shall be composed of complete plans and drawings of the following:

- A. General Notes, Legends and Symbols including Schematic Diagram.
- B. Floor Layout, Elevator Shaft Plan and Machine Room Plan (If applicable).
- C. Equipment Schedule, Detail drawings and Equipment layout.
- D. Architectural, Structural, Electrical and Plumbing drawings of the Elevator System.
 - Hospital bed type elevator shall be provided in all multi-storey hospital buildings.
 - The minimum car size shall be 1,500mm wide and 2,150mm long.
 - The car door opening shall be not less than 1,100mm and 2,100mm high.
 - Lift capacity: at least 1000 kgs

IV. Specific Requirements

Provide details of the following:

1. Cistern Tanks and Elevated Water Tanks

VI. Summary of Materials

1. Automatic Fire Sprinkler System

- a. The fire pump shall be UL Listed/FM Approved, diesel engine or electric motor driven, designed specifically intended for an automatic water sprinkler protection system (not included).
- b. The jockey pump shall be UL Listed/FM Approved, electric motor driven, 220V, 3-phase, 60 hertz, and electric power connection (not included).
- c. Sprinkler head shall be UL Listed/FM Approved, pendant, upright or sidewall unit, 83 LPM flow capacity per head and temperature fusing at 57.5° C to 74°C.
- d. The alarm assembly shall be UL Listed/FM Approved, constructed and installed that any flow of water from the sprinkler system equal to or greater than that from the single automatic head shall result in an audible and visual signal in the vicinity of the building.
- e. Alarm and supervision system of the automatic water sprinkler shall include the monitoring water flow switch at each floor of the building, fire pump and jockey pump running condition and power supplies, level of water in the reservoir and control valves.
- f. Pipes shall be B.I. Schedule 40. Screw fittings shall be used for inside piping.

2. Ventilation and Air-conditioning System

- a. Refrigerant pipes shall be copper tubing, type L or K black steel pipe, Schedule 40 for size of 100mm diameter and smaller. Pipe over 100mm shall be black steel pipe Schedule 40.
- b. Black steel pipes shall be standard seamless, lap-welded, or electric resistant welded for size of 50mm diameter and larger, screw type for size 38mm diameter and smaller, fittings for copper tubing shall be cast bronze fitting designed expressly for brazing.
- c. Pipe insulation shall be performed fiberglass or its equivalent. The insulating materials shall be covered with 100mm x 13mm thick polythelene film, which shall be overlapped not less than 50mm.
- d. Ducts shall be galvanized sheet steel of standard gauges.
- e. Ductwork insulation materials shall be rigid board made of styropor or equivalent 25mm thick for ground and top floor, 13mm thick for intermediate floor.

3. Elevator System

- a. The hospital elevator shall machine room less, or traction type only.
- b. The elevator system shall be UL Listed/FM Approved.

VII. Drawing Requirements: See attached DOH Standard Checklists based on Revised IRR of the National Building Code of the Philippines (PD 1096)

---End of Scheme---



**SUBJECT: ELECTRICAL AND COMMUNICATION SYSTEM DESIGN
PARAMETERS**

I. Codes and Standards

The Electrical System Design Parameters shall be in accordance with the following Codes and Standards.

Codes:

1. Philippine Electrical Code
2. National Electrical Code
3. Fire Code of the Philippines
4. National Building Code of the Philippines and Its New IRR
5. Existing Local Codes and Ordinances

Standards:

1. Bureau of Product Standards (BPS)
2. Underwriters Laboratory (UL)
3. National Fire Protection Association
4. International Electrotechnical Commission (IEC)
5. Illumination Engineering Society (IES)
6. National Electrical Manufacturer's Association (NEMA)
7. DOH Manual on Technical Guidelines for Hospital and Health Facilities Planning and Design

II. Site Works

Based on the Master Site Development of the Hospital, the Site Works shall provide complete Electrical layout of the following:

1. Substation/Power House to the new proposed structures.
2. KVA rating and other specifications of Transformer.
3. Switchgear requirements
4. Panel board Layout
5. Electrical Metering Devices
6. Service Conductors and Conduit Layout
7. Grounding System
8. Emergency Standby Generators
9. Street and Perimeter Lighting System

III. Building Facilities Electrical System

1. Lighting System
 - ☐ Provide and install adequate normal branch circuits for Lighting System to all areas using the standard Lighting Design Analysis. Utilize the standard Illumination requirements per area of concern using the preferred particular type of luminaires.
2. Power System
 - ☐ Provide and install adequate normal branch circuits for the Power System.

3. Standby/Emergency System
 - ☐ Provide and install adequate equipment life safety and critical emergency branch circuits for lighting and utilization equipment connected to the alternate power source.
4. Auxiliary System
 - ☐ Provide and install the following Auxiliary System:
 - a) Communication System
 - ☐ Telephone System
 - ☐ Local Area Network System
 - ☐ Public Address Paging System
 - ☐ Private Branch Exchange (PABX)
 - ☐ Nurse Call System
 - ☐ Master or Cable Antenna Television (if specified)
 - b) Fire Alarm System
 - c) Security System.
5. Lightning Protection System
 - ☐ The building lightning protection system shall include roof-mounted air terminals grounding conductors, ground rods, conduits, clamps, and auxiliary equipment as required for a complete and operational lightning protection system.

IV. Provide Details of the following:

- III. Lighting Fixtures/ Luminaries
- IV. Panel board and Circuit Breakers
- V. Switchgear and other Metering Devices
- VI. Electrical and Hospital Equipment
- VII. Installation and Termination of Auxiliary and other Special Devices and Equipment
- VIII. Power and Telephone Hand holes (as may be required)
- IX. Pedestal and Service Entrance to Bldg.
- X. Grounding System Layout
- XI. Substation/Power House and Electrical Room
- XII. Transformer and Generator Mounting
- XIII. Others as may be required.

1.3. Summary of Materials

1. General Lighting Luminaries: Fixtures type shall be as indicated on the Lighting Layout Plan.
 - ☐ Fluorescent Lamp shall be Linear, circular or self-ballasted compact fluorescent lamps.
 - ☐ Fluorescent lamps shall be cool or warm white and lamp holders shall be made of thermosetting plastic.
 - ☐ Fluorescent Ballast Electronic type with high power factor or high frequency energy saving type.
 - ☐ Fluorescent Fixture housing shall be steel sheet with high reflectance powder coat paint finish.
 - ☐ Downlights and Pinlights shall be of heavy gauge spun aluminum equipped with lamp as indicated on the drawings.
 - ☐ Other Special Lighting requirements shall be as approved by the implementing agency.

2. Wiring Devices: Wiring devices shall be non-automatic control devices, the contact is guaranteed by the pressure of the special spiral springs.
 - ☐ Switches shall be of 15A, 250V or 300V except as otherwise noted and approved. Terminals shall be screw-type or quick-connected type.
 - ☐ General use receptacle shall be 15A, 240V grounding type unless otherwise indicated on the drawings.
 - ☐ Special purpose receptacles shall be as called for on the drawings. Matching plugs shall be supplied.
3. Panelboards and Circuit Breakers: The Panelboard and Circuit Breakers shall be equipped with molded-case circuit breakers and shall be the type as indicated in the panelboard schedule and details.
 - ☐ Provide molded-case circuit breakers of frame, trip rating and interrupting capacity as shown on the drawings. The circuit breakers shall be quick-make, quick break, thermal-magnetic, trip-indicating and shall have common trip on all multiple breakers with internal trip mechanism.
 - ☐ All current-carrying parts of the panelboards shall be plated. Provide solid neutral (S/N) assembly when required. The assembly shall be isolated from the enclosure.
4. Electrical Conduits, Boxes and Fittings: All conduits, boxes and fittings shall be standard rigid steel, zinc coated or galvanized.
 - ☐ Rigid Steel Conduits (RSC)
 - ☐ Rigid Metal Conduits (RMC)
 - ☐ Intermediate Metal Conduits (IMC)
 - ☐ Electrical Metallic Tubing (EMT)
 - ☐ Unplasticized Polyvinyl Chloride (uPVC) if required shall be schedule 40.
5. Conductors: Wires and cables shall be of the approved type and unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts.
 - ☐ The conductors used in the wiring system shall be of soft-annealed copper having a conductivity of not less than 98% of that of pure copper and insulated for 60 °C Temperatures.
 - ☐ All conduits of convenience outlets and wireways for lighting branch circuit homeruns shall be wired with a minimum of 3.5 mm square in size.
6. Nurse Call System:
 - ☐ The Nurse Call System shall have the following control panel, bed head panel, ancillary call and annunciating equipment.
 - ☐ Wiring shall consist of data cable and 24V supply to each bed head unit.
 - ☐ Two levels of call will be provided by the system:
 - a) Patient to Nurse. A patient to Nurse shall be actuated by means of the wall-mounted or handset mounted call push button of bed head panel.
 - b) Nurse to Nurse. Call of nurse to nurse shall be considered, as emergency call and shall be instigated by operation of the Emergency Pull/Push Switch mounted on call units of bed head panel.
 - c) Bedhead panel shall be of different type depending on the patient bedroom class and as may be required. Multiplexed bedhead panel shall be available to operate sound distribution system.
 - d) Bathroom shall be provided with pull cord unit and reset unit
 - e) Room indicator lamp shall be installed above the door of each patient's bedroom along the corridor.

- f) Nurse stations shall be equipped with indicator unit to provide indication (audible and visual) of the zone and type of call.
 - g) Emergency indication shall be included in some acute areas but arranged "for staff use only" in the event of urgent assistance being required.
 - h) The system shall be of solid state switching with all items connected to internal printed circuit boards readily interchangeable for maintenance purpose.
- 7. Master Antenna Television (MATV) and Cable Television (CATV) System:
 - ☐ Two sources of TV signals shall be provided to the building. One (1) shall be from a master antenna installed at the roof or within a suitable area of the building and the other will be from a commercial cable television service.
 - ☐ The master antenna system shall consist of FM, VHF and UHF antennas, combiner, distribution amplifier, coaxial cables, splitters, tap-offs and TV outlets.
 - ☐ There shall be individual trunking for master antenna and cable television rising in the building.
- 8. Structured Cabling & Telephone System:
 - ☐ A minimum provision for estimated 500 mixed PABX extension and direct telephone lines shall be required for tertiary hospitals.
 - ☐ Final details of the system shall follow specific requirements, quantity and type of service.
- 9. Fire Detection and Alarm System:
 - ☐ The Fire Detection and Alarm System shall be of multiplex, microprocessor-controlled addressable or zonal conventional fire detection, alarm and communication system.
 - ☐ The system shall consist of full integration automatic fire detection, voice alarm communication and fire fighters telephone system.
 - ☐ The system shall consist of control station, mimic panel initiating and indicating devices, control modules and system of wirings.
 - ☐ Actuation of the protective signaling system shall occur by manual pull station, automatic smoke or heat detector, sprinkler flow switch and tamper switch.
 - ☐ The system shall be able to monitors the status of flow switches and supervisory switches installed at the Sprinkler System risers. These monitoring points are also addressable or the conventional zonal in the same way as the detectors are making them easily recognizable at the control panel.
 - ☐ Occupant notification shall be accomplished automatically. Notification will be general, audible alarm type complying with appropriate section of NFPA.
 - ☐ The system shall be installed with provisions for future connection to the nearest fire services station in the locality.
- 10. Security System:
 - ☐ The Security system shall include intrusion detection and alarm, CCTV, access control or as may be required.

1.4.

Drawing Requirements: See attached DOH Standard Checklists based on Revised IRR of the National Building Code of the Philippines (PD1096)

---End of Scheme---



SUBJECT : LOCAL AREA NETWORK (LAN) DESIGN PARAMETERS (Subject to consultants improvement and modification based on the Approach and Methodology narrated under his Technical Proposal)

I. Codes and Standards

The Local Area Network (LAN) Design shall be in accordance with the following Standards.

- **Standards:**

1. IEEE 802
 - IEEE 802.1 Bridging (networking) and Network Management
 - IEEE 802.2 Logical link control (upper part of data link layer)
 - IEEE 802.3 Ethernet (CSMA/CD)
 - IEEE 802.4 Token bus (disbanded)
 - IEEE 802.5 Defines the MAC layer for a Token Ring (inactive)
 - IEEE 802.6 Metropolitan Area Networks (disbanded)
 - IEEE 802.7 Broadband LAN using Coaxial Cable (disbanded)
 - IEEE 802.8 Fiber Optic TAG (disbanded)
 - IEEE 802.9 Integrated Services LAN (disbanded)
 - IEEE 802.10 Interoperable LAN Security (disbanded)
 - IEEE 802.11 Wireless LAN & Mesh (Wi-Fi certification)
 - IEEE 802.12 demand priority (disbanded)
 - IEEE 802.13 Not Used
 - IEEE 802.14 Cable modems (disbanded)
 - IEEE 802.15 Wireless PAN
 - IEEE 802.15.1 (Bluetooth certification)
 - IEEE 802.15.4 (ZigBee certification)
 - IEEE 802.16 Broadband Wireless Access (WiMAX certification)
 - IEEE 802.16e (Mobile) Broadband Wireless Access
 - IEEE 802.17 Resilient packet ring
 - IEEE 802.18 Radio Regulatory TAG
 - IEEE 802.19 Coexistence TAG
 - IEEE 802.20 Mobile Broadband Wireless Access
 - IEEE 802.21 Media Independent Handoff
 - IEEE 802.22 Wireless Regional Area Network
2. ANSI/TIA/EIA-568
3. TR-49 (a new TIA Engineering Committee for Healthcare Communications Technology)

II. Site Works

Based on Master Site Development Plan of the Hospital, provide where applicable complete design and details of hospital local area network for voice and data connectivity.

III. Information and Communication Technology (ICT) Component

- a. Installation of structured cabling system for Data and Voice Connectivity and wireless network (LAN)

- ☐ 1000 data nodes distributed to Hospital's office area
- ☐ 1000 voice nodes distributed to Hospital's office area
- ☐ Cabling for CCTV security system
- ☐ Packaged technical implementation and training services
- ☐ LAN main distribution should be fiber optic technology

b. Structured Cabling System for Data and Voice Connectivity

Data Connectivity

- ☐ 1000 data nodes distributed to the Offices
 - ☐ Category 6, 4-pair UTP cable shall be 23 AWG, 100-Ohm, 4-pair
- UTP
- ☐ Category 6 Patch Panel
 - Shall be 1RU and provide 24 modular jack ports, with universal wiring that maybe terminated to T568A or T568B
 - Shall terminate the building cabling on 100-style insulation displacement connectors
 - ☐ Category 6 Information Outlet/Modular Jack shall be terminated using a 100-style pc board connector, color-coded for both T568A and T568B wiring.
 - ☐ Category 6 Patch Cord:
 - Equipment patch cable assemblies, 4 ft in length, must be factory-manufactured with stranded CMR UTP cable and color-matched snag less rubber boots.
 - Work area patch cord shall be 5 ft in length
 - One patch cord per user outlet and equipment connectivity must be provided. One patch cord per user outlet and equipment connectivity must be provided
 - ☐ For Category 6 Cabling installation – It shall all pass the following end-to-end Testing Parameters using Level III Cable Tester:
 - Attenuation
 - Attenuation to Crosstalk Ratio (ACR)
 - PowerSum Attenuation to Crosstalk Ratio (PSACR)
 - Near End Crosstalk (NEXT)
 - PowerSum Near-End Crosstalk (PSNEXT)
 - Equal Level Far-End Crosstalk (ELFEXT)
 - PowerSum Equal Level Far-End Crosstalk (PSELFEXT)
 - Return Loss
 - Propagation Delay
 - Delay Skew
 - Transfer Impedance

Voice Connectivity

- ☐ Voice backbone and horizontal cabling shall be Category 6, 4-pair UTP which are 24 AWG, 100-Ohm, and shall meet or exceed the performance requirements of ANSI/TIA/EIA-568-B.2
- ☐ Category 6 Information Outlet/Modular Jack
- ☐ Telecommunication Terminal Cabinet shall be wall-mounted and has sufficient space or dimension to accommodate required wiring components
- ☐ Wiring blocks shall be 100-Pair count, wall mountable, with legs and shall fit traditional cross-connect backboard spacing and layout.

- c. Cabling for CCTV Security System
- d. Other Requirement/s
 - ☐ Supply of Communication cabinets (Intermediate Distribution Frame) for each floor of the building

IV. Drawing Requirements: See attached DOH Standard Checklists

---End of Scheme---

Prepared:


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Engineer IV

Recommending Approval:


MARJORIE-ANNE D. MENA
OIC- Chief Administrative Officer

Approved by:

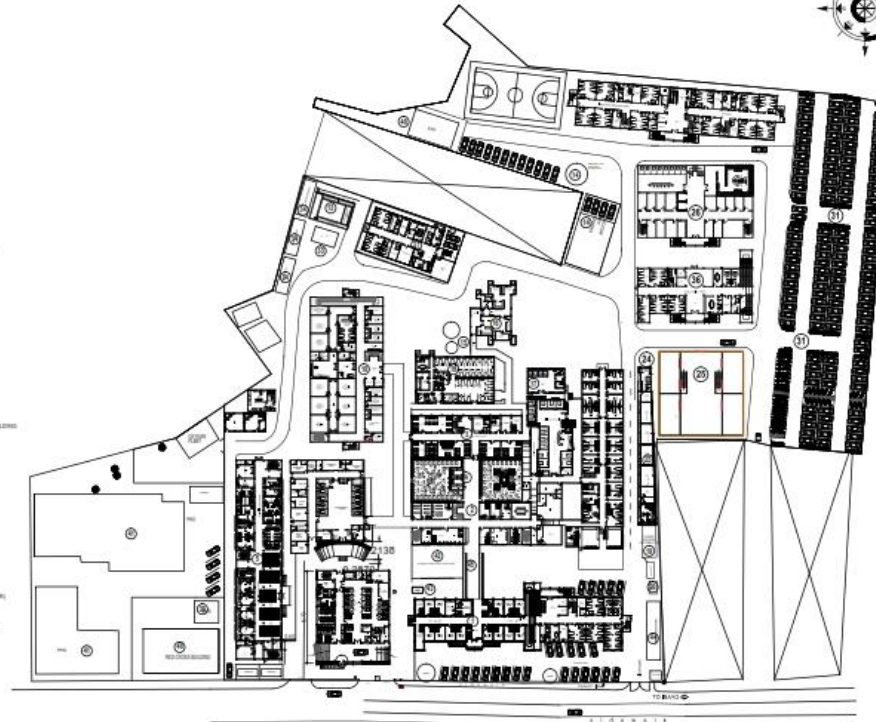

DR. GLORY V. BALTAZAR, MPH, MHA, CESe
Medical Center Chief II

Section VII. Drawings

BATAAN GENERAL HOSPITAL AND MEDICAL CENTER

LEGEND:

- | | |
|-----------------------|----------------------------|
| 1. BUILDING I | 10. STONE HOUSE DETENTION |
| 2. BUILDING II | 11. STONE HOUSE DETENTION |
| 3. BUILDING III | 12. STONE HOUSE DETENTION |
| 4. BUILDING IV | 13. STONE HOUSE DETENTION |
| 5. BUILDING V | 14. STONE HOUSE DETENTION |
| 6. BUILDING VI | 15. STONE HOUSE DETENTION |
| 7. BUILDING VII | 16. STONE HOUSE DETENTION |
| 8. BUILDING VIII | 17. STONE HOUSE DETENTION |
| 9. BUILDING IX | 18. STONE HOUSE DETENTION |
| 10. BUILDING X | 19. STONE HOUSE DETENTION |
| 11. BUILDING XI | 20. STONE HOUSE DETENTION |
| 12. BUILDING XII | 21. STONE HOUSE DETENTION |
| 13. BUILDING XIII | 22. STONE HOUSE DETENTION |
| 14. BUILDING XIV | 23. STONE HOUSE DETENTION |
| 15. BUILDING XV | 24. STONE HOUSE DETENTION |
| 16. BUILDING XVI | 25. STONE HOUSE DETENTION |
| 17. BUILDING XVII | 26. STONE HOUSE DETENTION |
| 18. BUILDING XVIII | 27. STONE HOUSE DETENTION |
| 19. BUILDING XIX | 28. STONE HOUSE DETENTION |
| 20. BUILDING XX | 29. STONE HOUSE DETENTION |
| 21. BUILDING XXI | 30. STONE HOUSE DETENTION |
| 22. BUILDING XXII | 31. STONE HOUSE DETENTION |
| 23. BUILDING XXIII | 32. STONE HOUSE DETENTION |
| 24. BUILDING XXIV | 33. STONE HOUSE DETENTION |
| 25. BUILDING XXV | 34. STONE HOUSE DETENTION |
| 26. BUILDING XXVI | 35. STONE HOUSE DETENTION |
| 27. BUILDING XXVII | 36. STONE HOUSE DETENTION |
| 28. BUILDING XXVIII | 37. STONE HOUSE DETENTION |
| 29. BUILDING XXIX | 38. STONE HOUSE DETENTION |
| 30. BUILDING XXX | 39. STONE HOUSE DETENTION |
| 31. BUILDING XXXI | 40. STONE HOUSE DETENTION |
| 32. BUILDING XXXII | 41. STONE HOUSE DETENTION |
| 33. BUILDING XXXIII | 42. STONE HOUSE DETENTION |
| 34. BUILDING XXXIV | 43. STONE HOUSE DETENTION |
| 35. BUILDING XXXV | 44. STONE HOUSE DETENTION |
| 36. BUILDING XXXVI | 45. STONE HOUSE DETENTION |
| 37. BUILDING XXXVII | 46. STONE HOUSE DETENTION |
| 38. BUILDING XXXVIII | 47. STONE HOUSE DETENTION |
| 39. BUILDING XXXIX | 48. STONE HOUSE DETENTION |
| 40. BUILDING XL | 49. STONE HOUSE DETENTION |
| 41. BUILDING XLI | 50. STONE HOUSE DETENTION |
| 42. BUILDING XLII | 51. STONE HOUSE DETENTION |
| 43. BUILDING XLIII | 52. STONE HOUSE DETENTION |
| 44. BUILDING XLIV | 53. STONE HOUSE DETENTION |
| 45. BUILDING XLV | 54. STONE HOUSE DETENTION |
| 46. BUILDING XLVI | 55. STONE HOUSE DETENTION |
| 47. BUILDING XLVII | 56. STONE HOUSE DETENTION |
| 48. BUILDING XLVIII | 57. STONE HOUSE DETENTION |
| 49. BUILDING XLIX | 58. STONE HOUSE DETENTION |
| 50. BUILDING L | 59. STONE HOUSE DETENTION |
| 51. BUILDING LI | 60. STONE HOUSE DETENTION |
| 52. BUILDING LII | 61. STONE HOUSE DETENTION |
| 53. BUILDING LIII | 62. STONE HOUSE DETENTION |
| 54. BUILDING LIV | 63. STONE HOUSE DETENTION |
| 55. BUILDING LV | 64. STONE HOUSE DETENTION |
| 56. BUILDING LVI | 65. STONE HOUSE DETENTION |
| 57. BUILDING LVII | 66. STONE HOUSE DETENTION |
| 58. BUILDING LVIII | 67. STONE HOUSE DETENTION |
| 59. BUILDING LIX | 68. STONE HOUSE DETENTION |
| 60. BUILDING LX | 69. STONE HOUSE DETENTION |
| 61. BUILDING LXI | 70. STONE HOUSE DETENTION |
| 62. BUILDING LXII | 71. STONE HOUSE DETENTION |
| 63. BUILDING LXIII | 72. STONE HOUSE DETENTION |
| 64. BUILDING LXIV | 73. STONE HOUSE DETENTION |
| 65. BUILDING LXV | 74. STONE HOUSE DETENTION |
| 66. BUILDING LXVI | 75. STONE HOUSE DETENTION |
| 67. BUILDING LXVII | 76. STONE HOUSE DETENTION |
| 68. BUILDING LXVIII | 77. STONE HOUSE DETENTION |
| 69. BUILDING LXIX | 78. STONE HOUSE DETENTION |
| 70. BUILDING LXX | 79. STONE HOUSE DETENTION |
| 71. BUILDING LXXI | 80. STONE HOUSE DETENTION |
| 72. BUILDING LXXII | 81. STONE HOUSE DETENTION |
| 73. BUILDING LXXIII | 82. STONE HOUSE DETENTION |
| 74. BUILDING LXXIV | 83. STONE HOUSE DETENTION |
| 75. BUILDING LXXV | 84. STONE HOUSE DETENTION |
| 76. BUILDING LXXVI | 85. STONE HOUSE DETENTION |
| 77. BUILDING LXXVII | 86. STONE HOUSE DETENTION |
| 78. BUILDING LXXVIII | 87. STONE HOUSE DETENTION |
| 79. BUILDING LXXIX | 88. STONE HOUSE DETENTION |
| 80. BUILDING LXXX | 89. STONE HOUSE DETENTION |
| 81. BUILDING LXXXI | 90. STONE HOUSE DETENTION |
| 82. BUILDING LXXXII | 91. STONE HOUSE DETENTION |
| 83. BUILDING LXXXIII | 92. STONE HOUSE DETENTION |
| 84. BUILDING LXXXIV | 93. STONE HOUSE DETENTION |
| 85. BUILDING LXXXV | 94. STONE HOUSE DETENTION |
| 86. BUILDING LXXXVI | 95. STONE HOUSE DETENTION |
| 87. BUILDING LXXXVII | 96. STONE HOUSE DETENTION |
| 88. BUILDING LXXXVIII | 97. STONE HOUSE DETENTION |
| 89. BUILDING LXXXIX | 98. STONE HOUSE DETENTION |
| 90. BUILDING LXXXX | 99. STONE HOUSE DETENTION |
| 91. BUILDING LXXXXI | 100. STONE HOUSE DETENTION |



MASTER SITE DEVELOPMENT PLAN
SCALE NTS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LAND USE AND ZONING

LINE AND GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL



REPUBLIC OF THE PHILIPPINES
PROVINCE OF BATANGAS
BATAAN GENERAL HOSPITAL MEDICAL CENTER
BALANGA, CITY, BATANGAS
ENGINEERING AND FACILITIES
MANAGEMENT SECTION

DESIGNED BY:
ENGR. BEVERLY T. SANDON
ADMINISTRATIVE OFFICER II
CHECKED BY:
ENGR. JOHN DANIEL M. SANTOS
ENGINEER II

PROJECT TITLE/LOCATION:
CONSTRUCTION OF THREE (3) STOREY ER COMPLEX AND POISON CENTER
LOCATION: BALANGA BATAAN

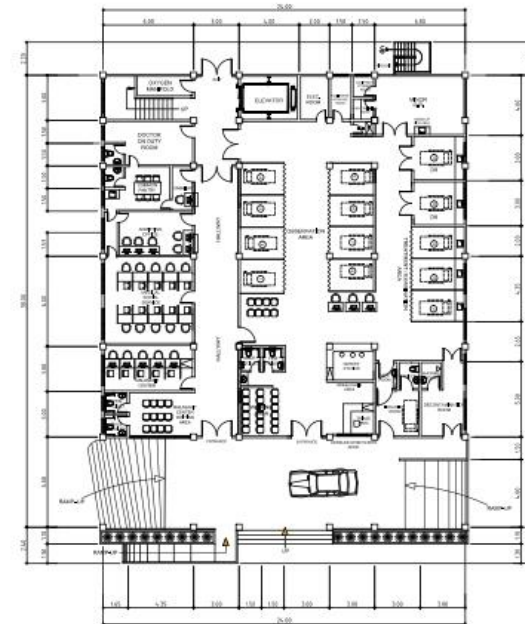
RECOMMENDED BY:
MARJORIE ANNE MENA
DIO-CHIEF ADMINISTRATIVE OFFICER
ENDORSED BY:
GLOREY V. BALTAZAR
MEDICAL CENTER CHIEF I

SHEET COUNTS
1. MASTER SITE DEVELOPMENT PLAN
2. LEGEND

SHEET NO.:
JOB NO.:




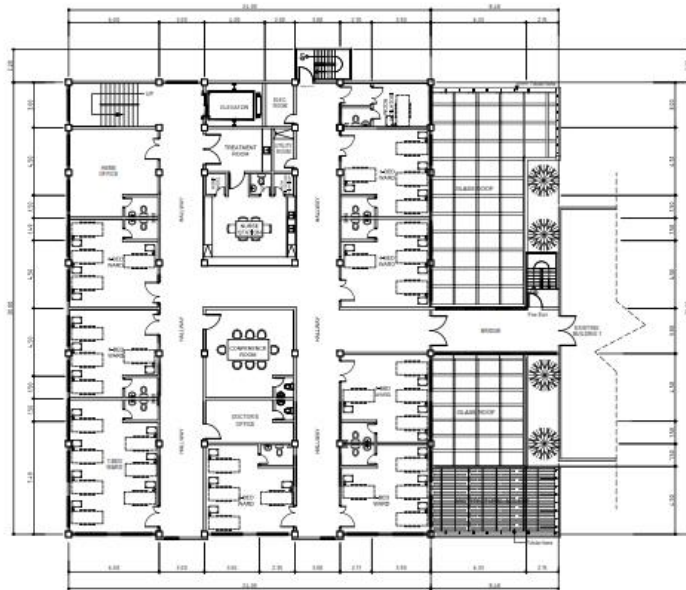
P E R S P E C T I V E



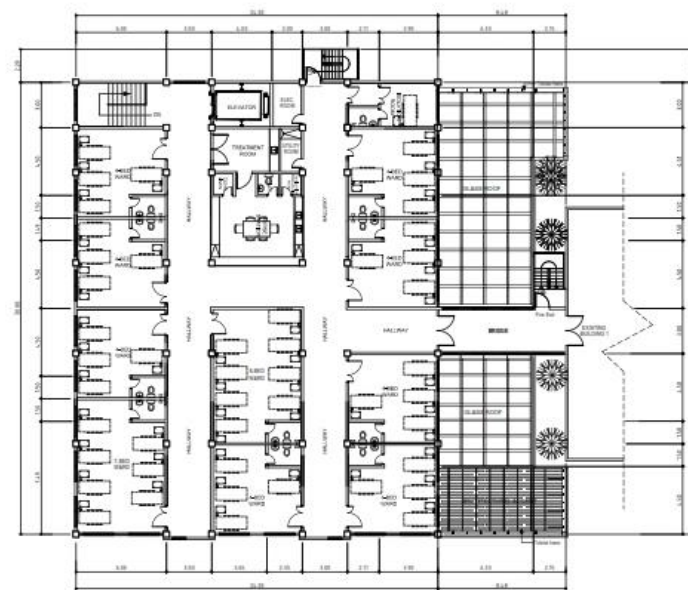
GROUND FLOOR PLAN
SCALE 1:150 MTS



REPUBLIC OF THE PHILIPPINES PROVINCE OF BATANGAS BATAAN GENERAL HOSPITAL MEDICAL CENTER ENGINEERING AND FACILITIES MANAGEMENT SECTION	REVIEWED BY: DR. BEVERLY T. SANDSON ADMINISTRATIVE OFFICER IV CHECKED BY: ENGR. JOHN DANIEL M. SANTOS ENGINEER IV	PROJECT TITLE/LOCATION: CONSTRUCTION OF THREE (3) STOREY ER COMPLEX AND POISON CENTER LOCATION: BALANGA BATAAN	RECOMMENDED BY: MARJORIE ANNE MENA DIC-CHIEF ADMINISTRATIVE OFFICER ENDORSED BY: GLOREY V. BALTAZAR MEDICAL CENTER CHIEF	SHEET CONTENTS 1. PERSPECTIVE 2. GROUND FLOOR PLAN	SHEET NO.:  JOB NO.:
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○ SECOND FLOOR PLAN
SCALE 1:150 MTS



○ THIRD FLOOR PLAN
SCALE 1:150 MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF HEALTH
BATAAN GENERAL HOSPITAL MEDICAL CENTER
BALANGA CITY, BATAAN
ENGINEERING AND FACILITIES
MANAGEMENT SECTION

DESIGNED BY:
ARCHT. BEVERLY T. SANDISON
ADMINISTRATIVE OFFICER IV
CHECKED BY:
ENGR. JOHN DANIEL M. SANTOS
ENGINEER IV

PROJECT TITLE/LOCATION:
CONSTRUCTION OF THREE (3) STOREY ER COMPLEX AND POISON CENTER
LOCATION: BALANGA BATAAN

RECOMMENDED BY:
MARJORIE ANNE MENA
DIC-CHIEF ADMINISTRATIVE OFFICER
ENDORSED BY:
GLORY V. BALTAZAR
MEDICAL CENTER CHIEF I

SHEET CONTENTS
1. SECOND FLOOR PLAN
2. THIRD FLOOR PLAN

SHEET NO.:
A
JOB NO.:




○ FRONT ELEVATION
SCALE NTS



○ LEFT SIDE ELEVATION
SCALE NTS



REPUBLIC OF THE PHILIPPINES PROVINCE OF BATANGAS BATAAN GENERAL HOSPITAL MEDICAL CENTER BALANGA CITY, BATANGAS ENGINEERING AND FACILITIES MANAGEMENT SECTION	DESIGNED BY: DR. BEVERLY T. SANDSON ADMINISTRATIVE OFFICER IV	PROJECT TITLE/LOCATION: CONSTRUCTION OF THREE (3) STOREY ER COMPLEX AND POISON CENTER LOCATION: BALANGA BATAAN	RECOMMENDED BY: MARJORIE ANNE MENA DIC-CHIEF ADMINISTRATIVE OFFICER	SHEET CONTENTS: 1. FRONT ELEVATION 2. LEFT SIDE ELEVATION	SHEET NO.: 
	CHECKED BY: ENGR. JOHN DARNEL M. SANTOS ENGINEER IV		DESIGNED BY: GLOREY V. BALTAZAR MEDICAL CENTER CHIEF I		

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);
or
- ☐ (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; **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;
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;
 - ☐ 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**
- ☐ (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.

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).

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.

