

PHILIPPINE BIDDING DOCUMENTS

Procurement of CONSULTING SERVICES

Government of the Republic of the Philippines

***CONSULTING SERVICES FOR THE DETAILED ARCHITECTURAL AND
ENGINEERING DESIGN FOR THE PROPOSED CONSTRUCTION OF
QUEZON CITY DISTRICT 6 LEVEL II HOSPITAL AT BARANGAY
TANDANG SORA***

Project No.: CONSUL-23-004

Approved Budget for the Contract:

Fourteen Million Two Hundred Thousand Pesos Only (Php 14,200,000.00)

**Fifth Edition
August 2016**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Consulting Services through Competitive Bidding have been prepared by the Government of the Philippines (GoP) for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the Government, including government-owned and/or -controlled corporations (GOCCs), government financial institutions (GFIs), state universities and colleges (SUCs), local government units (LGUs), 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 GoP or the World Bank 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 9184 (R.A. 9184).

The Bidding Documents shall clearly and adequately define, among others: (a) the objectives, scope, and expected outputs and/or results of the proposed contract; (b) the minimum eligibility requirements of bidders, such as track record to be determined by the Head of the Procuring Entity; (c) the expected contract duration, delivery schedule and/or time frame; and (d) the obligations, duties, and/or functions of the winning bidder.

In order to simplify the preparation of the Bidding Documents for each procurement, the PBDs groups the provisions that are intended to be used unchanged in Section II. Eligibility Documents of Part I; and **Error! Reference source not found.** (ITB) and **Error! Reference source not found.** (GCC) of Part II. Data and provisions specific to each procurement and contract should be included in Section III. Eligibility Data Sheet (EDS) of Part I, **Error! Reference source not found.** (BDS), and **Error! Reference source not found.** (SCC) of Part II. The forms to be used are provided in the attachments.

Care should be taken to check the relevance of the provisions of the Bidding Documents against the requirements of the specific Consulting Services to be procured. 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 Consulting Services. However, they should be adapted as necessary to the circumstances of the particular Project.
- (b) These PBDs are divided into Part I and Part II, which shall be both made available from the time the Request for Expression of Interest is first advertised/posted until the deadline for the submission and receipt of bids
- (c) Specific details, such as the “name of the Procuring Entity” and “address for proposal submission,” should be furnished in the EDS, BDS, and SCC. The final documents should contain neither blank spaces nor options.
- (d) This Preface and the footnotes or notes in italics included in the Request for Expression of Interest, EDS, BDS, SCC, Terms of Reference, and Appendices are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow. The Bidding Documents should contain no footnotes except **Error! Reference source not found.** of Part II since these provide important guidance to Bidders.
- (e) The criteria for evaluation and the various methods of evaluation in the ITB should be carefully reviewed. Only those that are selected to be used for the procurement in question should be retained and expanded, as required in the BDS. The criteria that are not applicable should be deleted from the BDS.
- (f) 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.

- (g) If modifications must be made to bidding procedures, they can be presented in the BDS. Modifications for specific Project or Contract should be provided in the SCC as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the EDS, BDS, or SCC these terms shall be printed in bold type face on Section II. Eligibility Documents, Section I. Instructions to Bidders, and Section III. General Conditions of Contract, respectively.

TABLE OF CONTENTS

PART I

SECTION I. REQUEST FOR EXPRESSION OF INTEREST.....5

SECTION II. ELIGIBILITY DOCUMENTS.....7

SECTION III. ELIGIBILITY DATA SHEET 13

Section I. Request for Expression of Interest

Notes on Request for Expression of Interest

The Request for Expression of Interest provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The Request for Expression of Interest shall be:

- (a) Posted continuously in the Philippine Government Electronic Procurement System (PhilGEPS) website and the website of the Procuring Entity concerned, if available, and the website prescribed by the foreign government/foreign or international financing institution, if applicable, seven (7) calendar days starting on the date of advertisement; and
- (b) Posted at any conspicuous place reserved for this purpose in the premises of the Procuring Entity concerned for seven (7) calendar days, as certified by the head of the Bids and Awards Committee (BAC) Secretariat of the Procuring Entity concerned.
- (c) Advertised at least once in a newspaper of general nationwide circulation which has been regularly published for at least two (2) years before the date of issue of the advertisement, subject to Sections 21.2.1(c) of the IRR of R.A. 9184¹;

Apart from the essential items listed in the Bidding Documents, the Request for Expression of Interest should also indicate the following:

- (a) The date of availability of the Bidding Documents, the place where it may be secured and the deadline for submission of the Expression of Interest (EOI) together with the application for eligibility;
- (b) The set of criteria and rating system for short listing of prospective bidders to be used for the particular contract to be Bid, which shall consider the following, among others:
 - (i) Applicable experience of the consultant and members in case of joint ventures, considering both the overall experiences of the firms or, in the case of new firms, the individual experiences of the principal and key staff, including the times when employed by other consultants;
 - (ii) Qualification of personnel who may be assigned to the job vis-à-vis extent and complexity of the undertaking; and
 - (iii) Current workload relative to capacity;

¹ Two years after effectivity of the 2016 Revised IRR of RA 9184 on **28 October 2016**, advertisement in a newspaper of general nationwide circulation shall no longer be required. However, a Procuring Entity that cannot post its opportunities in the PhilGEPS for justifiable reasons shall continue to publish its advertisements in a newspaper of general nationwide circulation.

- (c) The number of consultants to be short listed and the procedure to be used in the evaluation of Bids of short listed consultants, *i.e.*, QBE or QCBE; and if QCBE, the weights to be allocated for Technical and Financial Proposals; and
- (d) The contract duration.

In the case of WB funded projects, the Request for Expression of Interest shall be sent to all who have expressed an interest in undertaking the services as a result of any General Procurement Notice issued. In addition, it shall also be sent to all heads of associations of consultants within the area where the project will be undertaken.



REPUBLIC OF THE PHILIPPINES
QUEZON CITY GOVERNMENT



BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE & CONSULTANCY
2nd floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

September 12, 2023

REQUEST FOR EXPRESSION OF INTEREST FOR
CONSULTING SERVICES FOR THE DETAILED ARCHITECTURAL AND
ENGINEERING DESIGN FOR THE PROPOSED CONSTRUCTION OF
QUEZON CITY DISTRICT 6 LEVEL II HOSPITAL AT BARANGAY
TANDANG SORA

1. The *Quezon City Local Government*, through the 2023 General Fund intends to apply the sum of **Fourteen Million Two Hundred Thousand Pesos Only (Php 14,200,000.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for **project number CONSUL-23-004**. Bids received in excess of the ABC shall be automatically rejected at the opening of the financial proposals.
2. The *Quezon City Local Government* now calls for the submission of eligibility documents for **Consulting Services for the Detailed Architectural and Engineering Design for the Proposed Construction of Quezon City District 6 Level II Hospital at Barangay Tandang Sora**. Eligibility documents of interested consultants must be duly received by the BAC Secretariat on or before **September 21, 2023 – 9:00AM**. at **2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound**.

Eligibility Check will be on **September 21, 2023 – 10:00 AM**. at **2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound**, simultaneously via Zoom (virtual platform). Applications for eligibility will be evaluated based on a non-discretionary “pass/fail” criterion.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

3. Interested bidders may obtain further information from *Quezon City Local Government* and inspect the Bidding Documents at the address given below during **8:00 a.m. – 5:00 p.m.**
4. A complete set of Bidding Documents may be acquired by interested Bidders on **September 13, 2023** from the address below upon submission of the following:
 - 4.1 PhilGEPS Registration Certificate (Platinum – 3 Pages)
 - 4.2 Printed Document Request List (DRL) from the Philippine Government Electronic Procurement System (PhilGEPS) website
 - 4.3 Notarized Joint Venture Agreement (if applicable)
 - 4.4 Letter of Intent

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity.

5. The BAC shall draw up the short list of consultants from those who have submitted Expression of Interest, including the eligibility documents, and have been determined as eligible in accordance with the provisions of Republic Act 9184 (RA 9184), otherwise known as the “Government Procurement Reform Act”, and its Implementing Rules and Regulations (IRR). The shortlist shall not exceed three (3) prospective bidders who will be entitled to submit bids. The criteria and rating system for short listing are:

CRITERIA	RATING
Applicable Experience of the Consultant	50 points
Qualification of Personnel	30 points
Current Workload Relative to Capacity	20 points

6. Bidding will be conducted through open competitive bidding procedures using non-discretionary “pass/fail” criterion as specified in the IRR of RA 9184. Bidding is restricted to Filipino citizens/sole proprietorships, cooperatives, and partnerships or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines.
7. The Procuring Entity shall evaluate bids using the Quality-Cost Based Evaluation/Selection (QCBE/QCBS). The criteria and rating system for the evaluation of bids shall be provided in the Instructions to Bidders.
8. The contract shall be completed in accordance with the Terms of Reference.
9. The **Quezon City Local Government** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
10. For further information, please refer to:

ATTY. DOMINIC B. GARCIA

OIC, Procurement Department

2nd Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

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

Email Add: bacinfra.procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

By:



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

Section II. Eligibility Documents

Notes on the Eligibility Documents

This Section provides the information necessary for prospective bidders to prepare responsive Eligibility Documents in accordance with the requirement of the Procuring Entity.

The provisions contained in this Section are to be used unchanged. Additional information or requirements specific to each procurement shall be specified in the EDS.

1. Eligibility Criteria

- 1.1. The following persons/entities shall be allowed to participate in the bidding for Consulting Services:
 - (a) Duly licensed Filipino citizens/sole proprietorships;
 - (b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;
 - (c) Corporations duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;
 - (d) Cooperatives duly organized under the laws of the Philippines; or
 - (e) Persons/entities forming themselves into a joint venture, *i.e.*, a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract: Provided, however, That Filipino ownership or interest thereof shall be at least sixty percent (60%). For this purpose, Filipino ownership or interest shall be based on the contributions of each of the members of the joint venture as specified in their JVA.
- 1.2. When the types and fields of Consulting Services involve the practice of professions regulated by law, those who will actually perform the services shall be Filipino citizens and registered professionals authorized by the appropriate regulatory body to practice those professions and allied professions specified in the **EDS**.
- 1.3. If the Request for Expression of Interest allows participation of foreign consultants, prospective foreign bidders may be eligible subject to the conditions stated in the **EDS**.
- 1.4. Government owned or –controlled corporations (GOCCs) may be eligible to participate only if they can establish that they (a) are legally and financially autonomous, (b) operate under commercial law, and (c) are not attached agencies of the Procuring Entity.

2. Eligibility Requirements

- 2.1. The following eligibility requirements, together with the Eligibility Documents Submission Form, shall be submitted on or before the date of the eligibility check specified in the Request for Expression of Interest and Clause 5 for purposes of determining eligibility of prospective bidders:
 - (a) Class “A” Documents –

Legal Documents
 - (i) PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 24.1 of the IRR, provided, that the winning Consultant shall

register with PhilGEPS in accordance with Section 37.1.4 of the IRR;

Technical Documents

- (ii) Statement of the prospective bidder of all its ongoing and completed 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, within the relevant period provided in the **EDS**. The statement shall include, for each contract, the following:
 - (ii.1) the name and location of the contract;
 - (ii.2) date of award of the contract;
 - (ii.3) type and brief description of consulting services;
 - (ii.4) consultant's role (whether main consultant, subconsultant, or partner in a JV)
 - (ii.5) amount of contract;
 - (ii.6) contract duration; and
 - (ii.7) certificate of satisfactory completion or equivalent document specified in the **EDS** issued by the client, in the case of a completed contract;
- (iii) Statement of the consultant specifying its nationality and confirming that those who will actually perform the service are registered professionals authorized by the appropriate regulatory body to practice those professions and allied professions in accordance with Clause 1.2, including their respective curriculum vitae.

(b) Class "B" Document –

If applicable, the Joint Venture Agreement (JVA) in case the joint venture is already in existence, or duly notarized statements from all the potential joint venture partners in accordance with Section 24.1(b) of the IRR of RA 9184.

- 2.2. The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and 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. The English translation shall govern, for purposes of interpretation of the bid.
- 2.3. Prospective bidders may obtain a full range of expertise by associating with individual consultant(s) and/or other consultants or entities through a JV or subcontracting arrangements, as appropriate. However, subconsultants may only participate in the bid of one short listed consultant. Foreign Consultants shall seek

the participation of Filipino Consultants by entering into a JV with, or subcontracting part of the project to, Filipino Consultants.

3. Format and Signing of Eligibility Documents

- 3.1. Prospective bidders shall submit their eligibility documents through their duly authorized representative on or before the deadline specified in Clause 5.
- 3.2. Prospective bidders shall prepare an original and copies of the eligibility documents. In the event of any discrepancy between the original and the copies, the original shall prevail.
- 3.3. The Eligibility Documents Submission Form shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the eligibility documents.
- 3.4. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the prospective bidder.

4. Sealing and Marking of Eligibility Documents

- 4.1. Prospective bidders shall enclose their original eligibility documents described in Clause 2.1, in a sealed envelope marked “ORIGINAL – ELIGIBILITY DOCUMENTS”. Each copy thereof shall be similarly sealed duly marking the envelopes as “COPY NO. ____ - ELIGIBILITY DOCUMENTS”. These envelopes containing the original and the copies shall then be enclosed in one single envelope.
- 4.2. The original and the number of copies of the eligibility documents as indicated in the **EDS** shall be typed or written in ink and shall be signed by the prospective bidder or its duly authorized representative/s.
- 4.3. All envelopes shall:
 - (a) contain the name of the contract to be bid in capital letters;
 - (b) bear the name and address of the prospective bidder in capital letters;
 - (c) be addressed to the Procuring Entity’s BAC specified in the **EDS**;
 - (d) bear the specific identification of this Project indicated in the **EDS**; and
 - (e) bear a warning “DO NOT OPEN BEFORE...” the date and time for the opening of eligibility documents, in accordance with Clause 5.
- 4.4. Eligibility documents that are not properly sealed and marked, as required in the bidding documents, shall not be rejected, but the bidder or its duly authorized representative shall acknowledge such condition of the documents as submitted. The BAC shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked eligibility documents, or for its premature opening.

5. Deadline for Submission of Eligibility Documents

Eligibility documents must be received by the Procuring Entity’s BAC at the address and on or before the date and time indicated in the Request for Expression of Interest and the **EDS**.

6. Late Submission of Eligibility Documents

Any eligibility documents submitted after the deadline for submission and receipt prescribed in Clause 0 shall be declared “Late” and shall not be accepted by the Procuring Entity. The BAC shall record in the minutes of submission and opening of eligibility documents, the Bidder’s name, its representative and the time the eligibility documents were submitted late.

7. Modification and Withdrawal of Eligibility Documents

- 7.1. The prospective bidder may modify its eligibility documents after it has been submitted; provided that the modification is received by the Procuring Entity prior to the deadline specified in Clause 5. The prospective bidder shall not be allowed to retrieve its original eligibility documents, but shall be allowed to submit another set equally sealed, properly identified, linked to its original bid marked as “ELIGIBILITY MODIFICATION” and stamped “received” by the BAC. Modifications received after the applicable deadline shall not be considered and shall be returned to the prospective bidder unopened.
- 7.2. A prospective bidder may, through a letter of withdrawal, withdraw its eligibility documents after it has been submitted, for valid and justifiable reason; provided that the letter of withdrawal is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of eligibility documents.
- 7.3. Eligibility documents requested to be withdrawn in accordance with this Clause shall be returned unopened to the prospective bidder concerned. A prospective bidder that withdraws its eligibility documents shall not be permitted to submit another set, directly or indirectly, for the same project. A prospective bidder that acquired the eligibility documents may also express its intention not to participate in the bidding through a letter which should reach and be stamped by the BAC before the deadline for submission and receipt of eligibility documents.

8. Opening and Preliminary Examination of Eligibility Documents

- 8.1. The BAC will open the envelopes containing the eligibility documents in the presence of the prospective bidders’ representatives who choose to attend, at the time, on the date, and at the place specified in the **EDS**. The prospective bidders’ representatives who are present shall sign a register evidencing their attendance.

In case the submitted eligibility envelopes cannot be opened as scheduled due to justifiable reasons, the BAC shall take custody of the said envelopes and reschedule the opening on the next working day or at the soonest possible time through the issuance of a Notice of Postponement to be posted in the PhilGEPS website and the website of the Procuring Entity concerned.

- 8.2. Letters of withdrawal shall be read out and recorded during the opening of eligibility documents and the envelope containing the corresponding withdrawn eligibility documents shall be returned unopened to the withdrawing prospective bidder.
- 8.3. The eligibility documents envelopes and modifications, if any, shall be opened one at a time, and the following read out and recorded:
 - (f) the name of the prospective bidder;
 - (g) whether there is a modification or substitution; and
 - (h) the presence or absence of each document comprising the eligibility documents vis-à-vis a checklist of the required documents.

- 8.4. The eligibility of each prospective bidder shall be determined by examining each bidder's eligibility requirements or statements against a checklist of requirements, using non-discretionary "pass/fail" criterion, as stated in the Request for Expression of Interest, and shall be determined as either "eligible" or "ineligible." If a prospective bidder submits the specific eligibility document required, he shall be rated "passed" for that particular requirement. In this regard, failure to submit a requirement, or an incomplete or patently insufficient submission, shall be considered "failed" for the particular eligibility requirement concerned. If a prospective bidder is rated "passed" for all the eligibility requirements, he shall be considered eligible to participate in the bidding, and the BAC shall mark the set of eligibility documents of the prospective bidder concerned as "eligible." If a prospective bidder is rated "failed" in any of the eligibility requirements, he shall be considered ineligible to participate in the bidding, and the BAC shall mark the set of eligibility documents of the prospective bidder concerned as "ineligible." In either case, the BAC chairperson or his duly designated authority shall countersign the markings.

9. Short Listing of Consultants

- 9.1. Only prospective bidders whose submitted contracts are similar in nature and complexity to the contract to be bid as provided in the **EDS** shall be considered for short listing.
- 9.2. The BAC shall draw up the short list of prospective bidders from those declared eligible using the detailed set of criteria and rating system to be used specified in the **EDS**.
- 9.3. Short listed consultants shall be invited to participate in the bidding for this project through a Notice of Eligibility and Short Listing issued by the BAC.

10. Protest Mechanism

Decision of the Procuring Entity at any stage of the procurement process may be questioned in accordance with Section 55 of the IRR of RA 9184.

Section III. Eligibility Data Sheet

Notes on the Eligibility Data Sheet

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

The Procuring Entity should specify in this Section the information and requirements specific to the circumstances of the Procuring Entity, the processing of the eligibility, and the rules that will apply in the determination and evaluation of eligibility.

In preparing this Section, the following aspects should be checked:

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

Eligibility Data Sheet

Eligibility Documents	
1.2	<i>CONSULTING SERVICES FOR THE DETAILED ARCHITECTURAL AND ENGINEERING DESIGN FOR THE PROPOSED CONSTRUCTION OF QUEZON CITY DISTRICT 6 LEVEL II HOSPITAL AT BARANGAY TANDANG SORA</i>
1.3	No further instructions.
2.19(a)(i)	<p>The Bidder shall also submit the following “Class A” documents with the Valid PhilGEPS Certificate of Registration:</p> <ol style="list-style-type: none"> Valid DTI Registration Certificate or SEC Registration Valid Mayor’s/Business Permit or its Equivalent Document; Valid Tax Clearance; Audited Financial Statement for the last two (2) consecutive years
2.1(a)(ii)	The statement of all ongoing and completed government and private contracts shall include all such contracts within <i>ten (10) years</i> prior to the deadline for the submission and receipt of eligibility documents.
2.1(a)(ii.7)	Certificate of Satisfactory Completion or equivalent document issued by the client, in case of a completed contract, shall be acceptable
4.2	Each prospective bidder shall submit one (1) original and one (1) copy of its eligibility documents.
4.3 (c)	<p><i>State the Bids and Awards Committee of the Procuring Entity concerned with the Project.</i></p> <p><i>Procurement Department 2nd Floor, Finance Building, Quezon City Hall Compound, Barangay Central, Quezon City</i></p>
4.3 (d)	<p><i>State specific details concerning the identification of the Project</i></p> <p><i>Request for Expression of Interest</i></p> <p><i>CONSUL-23-004 – Consulting Services for the Detailed Architectural and Engineering Design for the Proposed Construction of Quezon City District 6 Level II Hospital at Barangay Tandang Sora.</i></p>
5	<p>The address for submission of eligibility documents is:</p> <p><i>QUEZON CITY GOVERNMENT</i> Quezon City Hall Compound Barangay Central, Quezon City</p> <p><i>ATTY. DOMINIC B. GARCIA</i> <i>Procurement Department 2nd Floor, Finance Building,</i></p>

	<p><i>Quezon City Hall Compound, Barangay Central, Quezon City 8988-4242 loc. 8709/8710 Email Add: bacinfra.procurement@quezoncity.gov.ph Website: www.quezoncity.gov.ph</i></p> <p>The deadline for submission of eligibility documents is on or before September 21, 2023 – 9:00AM.</p>
8.1	<p>The place of opening of eligibility documents is 2nd Floor, Finance Building, Quezon City Hall Compound, simultaneously via Zoom (virtual platform)</p> <p>Virtual Conference (ZOOM APP) Meeting ID: 810 3646 5257 Password: 201522</p> <p>The date and time of opening of eligibility documents is September 21, 2023 – 10:00 AM.</p>
9.1	Similar contracts shall refer to the same nature as the project to be bid.
9.2	<p>1. Set of Criteria</p> <p>Among others:</p> <p>1.1 Experience of the consultant – 50%</p> <p>1.2 Qualification of personnel to be assign – 30%</p> <p>1.3 Current work load in relations to capacity- 20%</p> <p>2. Rating System</p> <p>2.1 Shortlisted consultant must obtain a score of 75% or higher</p>

ELIGIBILITY DOCUMENTS SUBMISSION FORM

[Date]

[Name and address of the Procuring Entity]

Ladies/Gentlemen:

In connection with your Request for Expression of Interest dated *[insert date]* for *[Title of Project]*, *[Name of Consultant]* hereby expresses interest in participating in the eligibility and short listing for said Project and submits the attached eligibility documents in compliance with the Eligibility Documents therefor.

In line with this submission, we certify that:

- a) *[Name of Consultant]* is not blacklisted or barred from bidding by the GoP or any of its agencies, offices, corporations, LGUs, or autonomous regional government, including foreign government/foreign or international financing institution; and
- b) Each of the documents submitted herewith is an authentic copy of the original, complete, and all statements and information provided therein are true and correct.

We acknowledge and accept the Procuring Entity’s right to inspect and audit all records relating to our submission irrespective of whether we are declared eligible and short listed or not.

We further acknowledge that failure to sign this Eligibility Document Submission Form shall be a ground for our disqualification.

Yours sincerely,

Signature
Name and Title of Authorized Signatory
Name of Consultant
Address

“ANNEX B”

List of all Ongoing Government & Private Contracts including contracts awarded but not yet started

Business Name : _____
Business Address : _____

Name and Location of Project	Description of the Project	Date of Award of the Contract	Consultant’s Role	Amount of Contract	Contract Duration
			Description		
<u>Government</u>					
<u>Private</u>					

Submitted by : _____
(Printed Name & Signature of Representative of Bidder)

Designation : _____

Date : _____

“ANNEX C”

List of Completed Government & Private Contracts within the last ten (10) years

Business Name : _____
Business Address : _____

Name and Location of Project	Description of the Project	Date of Award of the Contract	Consultant's Role	Amount of Contract	Contract Duration
			Description		
<u>Government</u>					
<u>Private</u>					

Attachments:

1. Certificate of satisfactory completion issued by the client

Submitted by : _____
(Printed Name & Signature of Representative of Bidder)

Designation : _____

Date : _____

STATEMENT ON CITIZENSHIP & PROFESSIONAL REGISTRATION

Date of Issuance

Ma. Josefina G. Belmonte
Mayor
City of Quezon
Quezon City, Philippines

Attention : **The Chairperson**
Bids and Awards Committee

Dear Sir/Madame:

In compliance with the requirements of the (Name of the Procuring Entity) BAC for the bidding of the (Name of the Project), I hereby certify that:

- ☐ I am a (Nationality) citizen wishing to participate in the bidding.
- ☐ I have the technical and financial capabilities to satisfactorily render the required services.
- ☐ I possess the required professional license issued by the professional Regulation Commission or other appropriate regulatory body *(name of other regulatory body)*.

Very truly yours,

Name of Authorized Representative

Position

Name of the Bidder

TERMS OF REFERENCE

CONSULTING SERVICES FOR THE DETAILED ARCHITECTURAL AND ENGINEERING DESIGN FOR THE PROPOSED CONSTRUCTION OF QUEZON CITY DISTRICT 6 LEVEL II HOSPITAL AT BARANGAY TANDANG SORA

I. INTRODUCTION

A. Background and Rationale:

Quezon City, the largest city in Metro Manila is divided into 6 congressional districts. District 6 which is located in the western portion of the City, almost at its center. It is composed of eleven (11) barangays with a total population of 531,592 as of 2015, constituting 18.11% of the total city population.

Among the 14-Point Agenda of City's Hon. Mayor Joy Belmonte when she first held office in 2019 was the provision of better health care and the delivery of a responsive, efficient and cost-effective social services. Though there are a total of 7 city-owned health facilities in District 6, which include 6 health centers and 1 animal bite clinic, the lack of a city-owned and operated hospitals brings about the limited health service the city government can provide, particularly to the constituents of District 6.

During the Honorable Mayor's inaugural speech in 2022, she announced that among her major thrusts for her term is for District 6 to have its own hospital.

The proposed hospital is to be constructed on an approximately 5,000 square meter property which is strategically located along Tandang Sora Avenue in Barangay Tandang Sora. The said hospital is initially earmarked to be a Level 2 hospital, which as per the guidelines of the Department of Health, should basically be provided with departmentalized clinical services and operational units for respiratory, general intensive care, high-risk pregnancy, neonatal intensive care, tertiary clinical laboratory, blood station and a second level x-ray with a mobile unit.

The project is to be implemented utilizing the funds of the Honorable Congresswoman Maricvic Co-Pilar of the 6th District of Quezon City and by the 1st Engineering District of Quezon City of the Department of Public Works and Highways.

There is therefore the need to procure the services of a highly qualified CONSULTANT to prepare the complete plans for the District 6 Level 2 Hospital for the City.

B. Objectives

The construction of a Level II Hospital Building in Tandang Sora, District 6, Quezon City will achieve the following major objectives:

1. To provide safe, secure and high quality medical care to the people of District 6, Quezon City
2. To provide the constituents of District 6, Quezon City and neighboring areas complete and affordable medical services
3. To support the existing QC-owned health care facilities in the area
4. To foster excellent health professionals

II. PROJECT INFORMATION

The contract will involve the preparation of the complete designs and plans for the construction of the District 6 Level 2 Hospital on the City's 5,000-square meter property located along Tandang Sora Avenue, Barangay Tandang Sora and mentioned in Section 1A of this Terms of Reference.

The Consulting Firm shall prepare the designs and plans primarily in accordance with the standards provided for by the Department of Health.

III. PROJECT COMPONENTS

The consultancy project will have two (2) phases which are the Pre-Detailed Design Phase and the Detailed Design Phase Each phase shall have the following activities:

A. Pre-Detailed Design Phase

1. Engineering Surveys and Investigations
2. Design Development Drawings – through coordination with the City Health Department and the City Architect Department
3. Permit To Construct issued by the Department of Health

B. Detailed Design Phase

Preparation of the complete Detailed Design Drawings (see Checklist of Drawing Requirements) based on the Design Development Drawings and Design Parameters/criteria made and approved by the City through the City Health Department and the City Architect Department including any revisions and refinements as approved and required by the DOH.

1. Detailed Architectural Plans (refer to Checklist of Drawing Requirements and Design Parameters).
2. Detailed Structural Plans (refer to Checklist of Drawing Requirements and Design Parameters).

3. Detailed Electrical Plans (refer to Checklist of Drawing Requirements and Design Parameters).
4. Detailed Storm, Drain, Sanitary and Plumbing Plans (refer to Checklist of Drawing Requirements and Design Parameters).
5. Detailed Mechanical Plans (refer to Checklist of Drawing Requirements and Design Parameters)
6. Structural Computations, including Soil Boring Test Results and Seismic Analysis and Electrical Design Computations
7. 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.
8. Bill of Quantities, Detailed Estimates including summary sheet indicating the unit prices of construction materials, labor rates and equipment rentals.
9. Summary of Works

IV. ELIGIBILITY REQUIREMENTS

The eligibility requirements for Design Consultancy shall comply with the applicable provisions of Sections 24 and Section 25.2 c. of IRR of RA 9184.

Minimum Qualifications and Requirements:

A. Track Record

1. The Consulting Firm should have completed the design of at least five (5) hospital or hospital related projects in the last ten (10) years.
2. The Consulting Firm should have a single largest similar completed contract within the last five (5) years which must be at least fifty percent (50%) of the Project Cost.

The Consulting Firm must submit the following as part of the Technical Requirements:

- Statement of all its ongoing and completed government and private projects relative to the design services of hospitals and other hospital related projects.
- Copies of Certificate of Project Completion and Acceptance from related projects within the last five (5) years.

B. Organization

The Consulting Firm should have an established Organizational Structure that clearly identifies the line of authority and responsibility as well as the specific divisions/sections dedicated to the needed service to show its capability to undertake the Project. An Organizational Chart must be submitted as part of the Technical Requirements.

C. Personnel

1. Architect
 - Must be a Filipino and a Registered and Licensed Architect
 - Must have an experience as Architectural Consultant for at least ten (10) years in hospital and hospital related projects.
2. Structural Engineer
 - Must be a Filipino and a Licensed Structural/Civil Engineer
 - Must have an experience as Structural and Civil Engineer Consultant for at least ten (10) years in hospital and hospital related projects.
3. Professional Electrical Engineer
 - Must be a Filipino and a Licensed Professional Electrical Engineer
 - Must have an experience as Professional Electrical Engineer Consultant for at least ten (10) years in hospital and hospital related projects.
4. Professional Mechanical Engineer
 - Must be a Filipino and a Licensed Professional Mechanical Engineer
 - Must have an experience as Mechanical Engineer Consultant for at least ten (10) years in hospital and hospital related projects.
5. Sanitary Engineer
 - Must be a Filipino and a Licensed Sanitary Engineer
 - Must have an experience as Sanitary Engineer Consultant for at least ten (10) years in hospital and hospital related projects.
6. Professional Electronics and Communications Engineer
 - Must be a Filipino and a Licensed Professional Electronic and Communication Engineer
 - Must have an experience as Electronics and Communications Engineer Consultant for at least ten (10) years in hospital and hospital related projects.

The Consulting Firm shall submit the complete list of Key Personnel with their corresponding qualifications, accompanied/supported with the following documentary requirements as part of the Technical Requirements:

1. Curriculum Vitae (CV) highlighting relevant work experience
2. Photocopy of Diploma
3. Photocopy of Professional License

D. Detailed Work Plan

A Detailed Work Plan and Schematic Plans shall be submitted by the Consulting Firm as part of the Technical Requirements.

V. CRITERIA FOR SELECTION

The BAC shall conduct a detailed evaluation of bids using the Quality-Cost Based Evaluation Procedure as stipulated in R.A. 9184.

The HoPE shall approve or disapprove the recommendations of the BAC within two (2) calendar days after receipt of the results of the evaluation from the BAC.

After approval by the HoPE of the Highest Rated Bid, its financial proposal shall then be opened. The BAC shall, within three (3) calendar days, notify and invite the consultant with the Highest Rated Bid for the opening of financial proposal for the purpose of conducting negotiations with the said consultant. In the letter of notification, the BAC shall inform the consultant of the issues in the technical proposal the BAC may wish to clarify during negotiations.

Negotiations shall be in accordance with Section 33.2.5 of the 2016 Revised IRR of RA 9184: Provided, that the amount in the financial envelope shall be made as the basis for negotiations and the total contract amount shall not exceed the amount indicated in the envelope and the ABC as stated in the Bidding Documents.

The technical information in the first envelop to be submitted by the bidder shall contain the following;

- The bid security in the prescribed form, amount and validity period;
- Organizational chart for the contract to be bid;
- List of completed and ongoing projects;
- Approach, work plan and schedule
- List of key personnel to be assigned to the contract to be bid, with their complete qualification and experience data; and
- Omnibus Sworn Statement in accordance with Section 25.3 of the 2016 Revised IRR of RA 9184

The technical proposals of consultants shall be evaluated based on the following criteria and using the corresponding numerical weights indicated herein.

Quality of personnel to be assigned to the project which covers suitability of key staff to perform the duties of the particular assignments and general qualifications and competence including education and training of the key staff.

Experience and capability of the consultant which includes records of previous engagement and quality of performance in similar and other projects; relationship with previous and current clients; and overall work commitments, geographical distribution of current/impending projects and attention to be given by the consultant. The experience of the consultant to the project shall consider both the overall experiences of the firm and the individual experiences

of the principal and key staff including the times when employed by other consultants.

A. Shortlisting of Prospective Bidders:

Consulting Firms shall be shortlisted based on the following:

- | | | |
|--|-------|-----|
| 1. Applicable experience of the firm | ----- | 50% |
| 2. Qualification of personnel who may be assigned to the project | ----- | 30% |
| 3. Current workload relative to capacity | ----- | 20% |

Participating Consulting Firms are to be rated based on the criteria shown in Section 24.5.3 of the 2016 IRR of Republic Act (RA) 9184.

Prospective bidders must pass the minimum score of seventy-five percent (75%) to be shortlisted. Failure to meet the specified requirements in the shortlisting would result to a zero (0) rating for the specified criterion. Top three bidders shall be qualified to proceed to the evaluation procedure.

B. Evaluation Procedure:

Shortlisted Consulting Firms will be evaluated using the Quality-Cost Based Evaluation/Selection (QCBE/QCBS) procedure under the Republic Act (RA) 9184 (Government Procurement Act) and its Revised Implementing Rules and Regulations (IRR) and shall be based on the following criteria.

Technical Proposal	70%
Financial Proposal	30%
Total	100%

Technical Proposals are to be rated based on the criteria shown in Section 33.2.2 of the 2016 IRR of Republic Act (RA) 9184.

- | | | |
|---|-------|-------------|
| 1. Quality of Personnel to be assigned to the project | ----- | 50% |
| 2. Experience and Capability of the Consultant | ----- | 25% |
| 3. Plan of Approach and Methodology, to include Schematic Plans | ----- | 25% |
| Total | ----- | 100% |

To be declared as the highest rated bid (HRB), the bidder must pass the minimum score of seventy-five percent (75%). Failure of the Consulting Firm to meet the specified requirements should result to a zero (0) rating for the specific criterion.

VI. APPROVED BUDGET COST

The approved budget cost for the Design of Level II Hospital Building is **Fourteen Million Two Hundred Thousand Pesos. (PHP 14,200,000.00)**

VII. SCHEDULE OF PAYMENT

The Winning Consulting Firm shall be paid as follows:

1. 15% upon issuance of Notice to Proceed to winning Consulting Firm
2. 15% upon submission of Architectural Plans to DOH HFSRB for supplication of Pert To Construct based on the approved Schematic Architectural Plan through the City Health Department and the City Architect Department.
3. 25% upon issuance of **DOH Permit To Construct (PTC)**.
4. 45% upon submission of the complete Detailed Architectural and Engineering Drawings and all other contract documents to the Quezon City government through the City Architect Department.

VIII. DELIVERABLES

The Consulting Firm shall submit the following plans and documents within the prescribed contract duration detailed in the succeeding section reckoned from the issuance of the Notice to Proceed issued by the City for the said project:

1. Complete set of Plans signed and sealed plotted in 30 x 40 tracing paper
2. Seven (7) sets of Plans signed and sealed printed in A3
3. Seven (7) sets of Blueprinted plans signed and sealed
4. Seven (7) sets of Technical Specifications signed and sealed
5. Three (3) sets of Detailed Cost Estimates signed and sealed
6. Three (3) sets of Structural Analysis signed and sealed
7. Three (3) sets of Electrical Computation signed and sealed
8. Three (3) sets of Bill of Quantities
9. Three (3) sets of Program of Works
10. Copy of Plans and Certificate duly stamped by the DOH

IX. CONTRACT DURATION

The Consulting Firm is required to complete the production of Detailed Architectural and Engineering Drawings, Technical Specifications, Bill of Quantities, Bill of Materials, Detailed Estimate, Structural Analysis and computations and Electrical computations and secure the Permit To Construct (PTC) within the schedule prescribed below, to start upon the consultant's receipt and signing of the Notice to Proceed. The time frame to be followed for the project is as follows:

ACTIVITY	MONTH	
	1	2
Pre – Design to include PTC from DOH	→	
Detailed Design		→

X. DESIGN PARAMETERS

A. Space Requirements

The design of the Proposed Level II Hospital must have the following major area requirements; any other requirements set forth by the Department of Health shall be included.

1. Clinical Services at least for:
 - a. Medicine
 - b. Pediatrics
 - c. Obstetrics and Gynecology
 - d. Surgery
 - e. Anesthesia
2. Departmentalized clinical services at least for:
 - a. Medicine
 - b. Pediatrics
 - c. Obstetrics and Gynecology
 - d. Surgery
 - e. Anesthesia
3. Dental Clinics
4. High Risk Pregnancy Care
5. Neonatal Intensive Care Unit
6. Intensive Care Unit
7. Physical Medicine and Rehabilitation Unit
8. Dialysis Clinic
9. Ambulatory Surgical Clinic
10. Ancillary Services
 - a. Tertiary Clinical Laboratory with Histopathology
 - b. Level III Imaging Facility
11. Pharmacy
12. Blood Service Facility
 - a. Blood Bank
13. Ambulance Service
 - a. Type 2 – Advance Life Support (ALS)
14. Dietary Department
15. Out Patient Clinics



16. Malasakit Center
17. Geriatric Wards
18. Human Milk Bank
19. 100-bed ward capacity

B. Architectural Design Parameters

1. Codes and Standards

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

a. Laws and Codes:

- PD 1096 or The National Building Code of the Philippines and its latest and amended IRR
- RA 9266 or Architectural Law and its latest and amended IRR
- RA 4226 or Hospital Licensing Act and its latest and amended IRR
- BP 344 or Accessibility Law and its Latest and Amended IRR
- AO 35, s. 1994 or AO Pertaining to the Control of Radiation Hazards
- RA 9514 or the New Fire Code of the Philippines
- RA 9184 or the Government Procurement Reform Act and its IRR
- Philippine Green Building Code
- Existing Local Codes and Ordinances
- And other Laws that applies to the projects

b. Standards:

- Bureau of Product Standards (BPS)
- Underwriters Laboratory (UL) or CE Listed or approved equivalent
- DOH Technical Guidelines for Hospital and Health Facilities Planning and Design

2. General Drawing Guidelines

a. 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, elevations and sections shall have a scale not smaller than 1: 100 meters.
- Spot detailed plans shall have a scale not smaller than 1: 50 meters.
- Avoid notes such as 'see architectural detail' or 'see structural'. Always refer with a callout to the specific detail drawing and sheet number.



b. Site Plans

- The site plans shall have a scale not smaller than 1: 400 meters.

c. 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, electronics and communications, fire protection, FDAS and mechanical plans, except for each trade's site plan, detailed plans and spot details.
- 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.
- Floor plans shall be indicated with boxed room callout numbers, including the callout for floor finishes and wall finishes.
- 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.
- The location of mechanical equipment, e.g. air conditioning shall be indicated in the floor plans. This shall be consistent with the mechanical and electrical plans.
- Window callouts shall be hexagons with the proper numbering, e.g., W-01.

d. Elevations and Sections

- Finish floor lines and top of truss and roof deck lines shall be consistent in all the elevations, sections and structural plans and details.

e. Reflected Ceiling Plans

- Reflected ceiling plans shall be indicated with boxed room callout numbers, including the callout for ceiling finishes and lighting fixtures.
- Ceiling height relative and in reference to the finish floor line shall be indicated in the reflected ceiling plans 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. Ceiling heights indicated herein must be consistent in all elevation/section drawings.
- The description and location of the fixtures, e.g. lighting, smoke detectors, air-condition vents, exhaust fans, in the reflected ceiling plans shall be consistent with the electrical and mechanical plans.

f. Roof Plans

- Location of all downspouts shall be indicated in the roof plans.
- Indicate the material finishes to be used.

- g. Doors and Windows
 - Door and window schedules shall indicate the type of door or window, the number of sets, the location/s of the door or window, the materials and accessories included and other special specifications, e.g. color or finish.
 - h. 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 1:30 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-ins.
3. Site Works
- a. The Master Site Development Plan of the Hospital shall include the following:
 - Contour and survey of the lot, including bearing and distance of the property line
 - Road network and curbs and sidewalks
 - Parking spaces
 - Reference location of existing trees
 - 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
 - Reference location of utilities, e.g. water reservoirs, septic tank and/or holding tank, powerhouse, transformers, waste storage area, security outposts and waiting sheds
 - b. In limited lot areas, buildings should at least be spaced four (4) meters apart to allow natural light and ventilation.
 - c. Covered walkways shall be provided for access and connection to all buildings.
 - d. Ramps shall be provided in all main entrances of the buildings and other access openings to walkways leading to other buildings.



4. Building Architectural Works

a. 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.

b. 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. Interiors walls forward, offices shall be 6mm thick fiber cement board (two-face) on metal framing, extend to bottom of beam.
- The walls of the rooms for X-ray, CT scan, MRI, Cobalt, Linear Accelerator, 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 300mm. x 600mm. for areas of six (6) square meters or below. Toilet wall tiles shall be 600mm. x600mm. 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.



c. Floors

- Laboratory and Operating Room floor finish shall be roll-form anti-static anti-bacterial homogenous vinyl with welded joints. It shall cover upwards to the sides of the wall up to a minimum of 200mm. from the floor.
- Training Facility Room, Physical Therapy Area, Gym, Court floor finish shall be heavy duty roll-form anti-static anti-bacterial homogenous vinyl with welded joints. or sports flooring to accommodate equipment and heavy traffic.
- 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 600mm. for areas of six (6) square meters or below. Toilet floor tiles shall be 600mm. x 600mm. for areas above six (6) square meters. All toilet floor tiles shall be non-skid. 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, corridor and for bigger areas shall not be less than 600mm. x 600mm. Indicate the tile pattern.
- Layout and work on wall and floor tiles must be aligned, plumb, level, and square.
- Tile color and design shall be approved first before installation.

d. Ceiling Works

The following rooms shall have a minimum ceiling height:

- Wards of 4 beds and up – minimum of 2.80 m., to provide better natural ventilation
- Ceiling height for areas with special aesthetic treatment, e.g. lobby, major conference room, executive office, shall be proportional to the area or room or as required by the designer. However, this shall not be lower than 2.80 m. 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 furring. Likewise, with acoustic boards in big areas, e.g. offices, and wards, shall be designed in a way to break the redundancy. Provide details.

- 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.
- e. 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 panel doors.
 - Toilet main door shall be PVC with louvers and toilet cubicle doors shall be compact high-pressure laminate (black core) door.
 - Heavy-use doors, e.g. kitchen, operating rooms 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 to the requirements of the Fire Code of the Philippines.
 - Aluminum frames of glass doors and windows shall be powder-coated.
 - Door finish and color shall be approved first before application.
 - Window sills shall be slightly sloped outwards to prevent damage to windows and paint due to water sip page. Section details shall be required to show this slope.
 - All doors of a high-occupancy room shall swing outwards as required by the Fire Code of the Philippines.
 - Doorjamb 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.
 - Use laminated doors for clinics, patient rooms and wards.
 - Use lever type door handles.
- f. Stairs, Ramps and Corridors
 - Ramps for persons with disability shall have a slope not higher than 1:12. Handrails and clearances shall conform to the requirements of BP 344.
 - 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 to 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.

g. 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 along corridor.
- Locate electrical light switches at the lock stile 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.

h. Roof Deck 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.

i. Painting

- Painted ceiling shall be in flat 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. emergency rooms and wards, shall be in anti-bacterial and odor-absorbent paint finish.
- Special rooms, e.g. operating rooms and laboratory shall also 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.



- Paint color and shade shall be approved first before application.

5. Specific Requirements

- Provide spot detail plans and sections of the following:
 - Gutter, eaves, and parapet
 - Ceiling - coverlight, special connections and design, mouldings, valances
 - Stairs - handrail, and baluster design
 - Ramps - handrail design and floor pattern
 - Doors, windows and gates - grille works,
 - Special Architectural Treatment and Design, e.g., façade design, special window and door, counter/nurse station counter / kitchen & pantry counter.
 - Special Carpentry Works, e.g., partitions, cabinets
 - Other details as may be required
 - Water proofing of all wet areas
- Provide Room Data Sheets, including detail floor plan, ceiling plan and sections of the following rooms, in coordination with the requirements of the electrical, sanitary and mechanical designs.

6. 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, metal spar.
- Wet areas, e.g. toilets, shall use non-skid/non-slip vitrified ceramic floor tiles.
- Heavy traffic areas, e.g. lobby, and corridor shall use heavy-duty homogeneous tile or porcelain tiles or a higher type of floor material.
- Vinyl floor tiles for areas like offices shall be homogenous and not less 4mm. thick. Ramps and stairs shall use non-skid/non-slip floor tiles, materials as specified. For laboratories and operating rooms, use roll-form anti-static anti-bacterial homogenous vinyl with welded joints. It shall cover upwards to the sides of the wall up to a minimum of 200mm. from the floor.
- 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 furring.
- Roofing sheets shall be Ga.# 24, pre-painted, and pre-formed.
- Others
 - Provision of pantries in locations specified by the end-users
 - Provision of ramps in all entrances/doors at the ground floor

- Provision of slop sink in all common toilet and janitor's closet
- Provision of towel holder, cloth holder, liquid soap dispenser, bidet spray and single face mirror for office toilet and wide face mirror for common toilets
- Provision of PWD toilet in every floor based on the approved design / layout
- Provision of cabinets and counters in locations specified by the end-users
- Provision of waterproofing for all wet areas and any concrete slab that is exposed to weather. Such slab shall be sloped to floor drain
- Provision of stainless steel grab bar in all staircases
- Provision of directional signage, room labels (room, wards, toilets, nurse stations, etc.) and directory at every floor
- Provision of lighted hospital and Quezon City Logo
- Provision of visible building name
- Provision of waste holding area

7. Drawing Requirements: See attached DOH checklist of drawings

C. Civil/Structural Design Parameters

1. The Proposed Level II Hospital must be structurally designed to withstand a 7.2 Magnitude Earthquake
2. Codes and Standards
The Civil/Structural Design shall be in accordance with the following Codes and Standards
 - a. Laws and Codes:
 - National Structural Code of the Philippines (NSCP) - 2015
 - National Building Code of the Philippines and its revised IRR
 - b. Standards:
 - Philippine National Standards (PNS)
 - DPWH Blue Book
 - American Concrete Institute (ACI)
 - American Society for Testing Materials (ASTM)
 - American Welding Society (AWS)
 - American Institute of Steel Construction (AISC)
3. 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.

- a. The main hospital road shall be capable of two-way traffic (at least 6mts. width) with a minimum thickness of 150mm (6 inches). Concrete strength should be at least 4000psi. Interior road (leading to support facilities) shall be so designed to accommodate delivery vehicles, and fire trucks in case of emergency.
- b. Walkway should be at least 100mm thick with concrete strength of 3000psi. Ramps should be provided, instead of steps, for any change in elevations.
- c. Parking area slabs (slab on grade/fill) should be at least 150mm thick with concrete strength of 4000psi.

4. Buildings

- a. The hospital buildings should be designed using seismic importance factor in accordance with NSCP Requirements.
- b. The hospital buildings should be designed also using wind adjustment factor in accordance with NSCP Requirements.
- c. 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.
- d. Soil investigation (at least three bore holes) should be conducted to determine soil bearing capacity and recommended foundation design.
- e. The structural designer is encouraged to use fire-resistive and non-toxic materials.
- f. Structures near the site of the building shall be considered during the structural analysis and design including its protection and construction.

5. Strength of Materials

a. Concrete

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C-150)
- Fine aggregates shall consist of hard, tough, durable uncoated particles.
- Coarse aggregates shall consist of gravel, crushed gravel or rock or combination of gravel and rock. Coarse aggregates shall consist of hard, tough, durable, clean and uncoated particles.
- Concrete shall have 28-day cylinder strength of 5,000 psi for footings, beams, suspended slabs, shear walls and columns while 4,000 psi for slab on fill/grade, wall footings and tanks.

b. Steel

- Reinforcing Bars shall conform to PNS Grade 60 for 16mm dia. and above and PNS Grade 40 for 12mm dia. and below.

- Structural Steel shall conform with ASTM A36
 - Bolts and Nuts shall conform with ASTM A325
 - Welding Electrodes shall be E70 and conform AWS
 - c. Masonry
 - Concrete Hollow Blocks shall have a minimum compressive strength of 500 psi for non-bearing and 700 psi – 1000 psi for load bearing.
6. Schedules and Details – the following shall be provided:
- a. Connection details of beams and columns following the requirements of NSCP on confined areas.
 - b. Connection of trusses to beams and columns.
 - c. Splicing details of reinforcing bars on columns and beams and the required bar cut-off points.
 - d. Schedule details of footings, beams, columns and slabs.
7. Drawing Requirements: See Attached DOH checklist of drawings

D. Sanitary / Plumbing Design Parameters

1. Codes and Standards

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

a. Codes:

- National Building Code of the Philippines and Its New IRR
- Fire Code of the Philippines
- Uniform Plumbing Code of the Philippines (UPCP)
- Sanitation Code of the Philippines
- Existing Local Codes and Ordinances.

b. Standards:

- Bureau of Product Standards (BPS)
- Philippine National Standards for Drinking-Water
- Underwriters Laboratory (UL) or CE Listed or approved equivalent
- DOH National \ Laboratory (NRL)
- DOH Health Care Waste Management Manual
- National Water Resources Board (NWRB)
- National Plumbers Association of the Philippines (NAMPAP)
- Philippine Society of Sanitary Engineers, Inc. (PSSE)

2. Site Works

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

- Storm Drainage Network, indicating Drainage Manholes and Pipe Culvert;
 - Sewerage Pipe Network, indicating Sewage Manholes, Sewage pipes and the location of the proposed Sewage Treatment Plant; and
 - Water Supply Network, indicating the location of Water Service entrance, Cisterns, Elevated Water Tank and proposed Pump House and main water lines.
- b. 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;
- c. For rainfall calculation and sizing of drainage pipes, refer to Table-D2, Appendix-D, National Plumbing Code of the Philippines and current rainfall record from PAGASA.
- d. 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: 250 gal/capita/day per bed.
- e. The Water Supply Network shall include the provision of Fire Hydrants, accessible Faucet that will serve as testing point for safe and potable water supply; Per capita water demand: 315 gal/capita/day per bed.
3. Building Facilities Sanitary/Plumbing System
- a. Sewerline and Vent System
- Provide complete Sewerline and Vent System from all (Domestic) plumbing fixtures and floor drains; laid by gravity flow or pumping from lift or transfer station leading to the Septic Tank (DENR Administrative Order Series 2018-08 compliant).
 - For Drainage Fixture Units; refer to Chapter 7, Table 7-2, NPCP
- b. Wastewater line and Vent System
- For all Areas dealing with Laboratory activities and generating infectious wastes, provide separate Waste line 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 Waste line and Vent System and solely tap to the proposed Grease Trap and then connect its effluent to the Sewage Treatment Plant.
 - For Estimated Demand Weight of Fixtures in Fixture Units; refer to Chapter 7, Table 7-2, NPCP
- c. Waterline System



- Provide complete cold water supply pipes to all plumbing fixtures. From the main water source to 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 to plumbing fixture, whichever is feasible.
 - Provide complete Hot water system with portable water heaters for selected Areas as required and or specified by the Owner.
 - Water line for collected rainwater towards water closets and urinals
 - d. 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.
 - e. Provision of Rain Harvester Tank
4. Specific Requirements
- a. Provide details of the following:
 - Toxic Waste Trap
 - Sewage Treatment Plant
 - Cistern Tanks and Elevated Water Tanks (c/o Mechanical)
5. Summary of Materials
- a. Sewer and Vent pipes; Unplasticized Polyvinyl Chloride (uPVC) extra series 1000 (Conforming to ISO 4435 ASTM D2729 including Trims and Fittings)
 - b. Storm Drainage pipes; Downspouts, Unplasticized Polyvinyl Chloride (uPVC) extra series 1000 (Conforming to ISO 3633, ISO 4435 ASTM D2729 including Trims and Fittings, BPS Certified)
 - c. Drainage Pipes; 250mm dia. and below, Non-Reinforced Concrete Pipe (NRCDP) 300mm dia. and above, Reinforced Concrete Pipe (RCDP)
 - d. Drainage Manholes; Street Inlet, Curb Inlet, Traffic Type Reinforced Concrete Area drain/Catch Basin, Reinforced Load Bearing CHB
 - e. Sewage Manholes; Traffic Type Reinforced Concrete with Standard Cast Iron Cover
 - f. Wastewater pipeline; wash area/dietary (same as sewer and neat pipes)
 - g. Cleanouts; High Quality Stainless steel, Laboratory HPDE & Filling PN16/Brass with counter sunk plug screw locks (BPS Certified)
 - h. Floor Drains/Deck Drains; High Quality Stainless Steel Brass (BPS Certified)

- i. Gutter Drains; Cast Iron Dome Type Brass/High Quality Stainless Steel (BPS Certified)
- j. Cold Waterline pipes; for buildings, Polypropylene Random (PPR) Pn16/Pn20 Fusion Weld Pipes including Trims and Fittings (BPS Certified)
- k. Hot Waterline System; for buildings, Polypropylene Pn20 Fusion Weld Pipes including Trims and Fittings (BPS Certified)
- l. Trench Grating; Galvanized/Stainless Steel Iron grates
- m. Plumbing Fixtures including Trims, fittings and accessories; (BPS certified)
 - Water Closet-Tank Type Lever Flush
 - Lavatory- (Pedestal/Counter Type)/semi-pedestal with C-spout spray faucet
 - Kitchen sink-Ga#16 Stainless Steel seamless bowl with gooseneck faucet
 - Urinal-Wall Hung Flush valve/lever/push button or green building standard type
- n. Plumbing Fixtures at Sterile Areas;
 - Scrub-Up Sink-Ga#16 stainless Steel (single/double bowl) compartment with knee operated and or sensor controlled spay faucet
 - Surgical Soap Dispenser-Ga#16 Stainless Steel knee operated
 - Medical Acid Resistant Sink with gooseneck faucet.
 - Deep sink, acid resistant with gooseneck faucet with lever and nozzle.

6. Drawing Requirements:

See attached DOH checklist standards based on Revised IRR of the National Building Code of the Philippines (PD 1096)

E. Mechanical Works Design Parameters

1. Codes and Standards

The Mechanical Design shall be in accordance with the latest adopted edition of the following Codes and Standards.

a. Codes:

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

b. Standards:

- Bureau of Product Standards (BPS)
- Philippine National Standards (PNS)
- Underwriters Laboratory (UL) and Factory Mutual (FM) or CE Listed or approved equivalent

- International Electrotechnical Commission (IEC) 1988
- National Fire Protection Association (NFPA)
- National Fire Protection Association (NFPA) 99 Standard for Health Care
- Facilities.
- American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).
- Center for Disease Control and Prevention (CDC) Manual.

2. Automatic Fire Sprinkler System

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

- a. Site Development Plan and Vicinity Map, indicating the location of the buildings, firewater reserve tank, firewater line, yard loop and private fire hydrant.
- b. General Notes, Legends and Symbols including Schematic Diagram of the Fire Sprinkler System and Schematic Diagram of Alarm Monitoring System.
- c. 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, branchlines, inspector's test connections, hangers and sway braces.
- d. Equipment Schedule, Detail drawings, fire pump and jockey pump layout.
- e. Architectural, Structural, Electrical and Plumbing drawings of the Firewater tank and Pumphouse.
 - An automatic fire sprinkler shall be provided in all hospital buildings.
 - Hazard Classification shall be Light Hazard Occupancy.
 - Area of coverage shall be 146 square meters and water density shall be 4.07 lps/sq.
 - Protection area per sprinkler head shall be 20 square meters at 2.2 meters minimum distance between sprinklers and 4.2 meters maximum spacing.
 - 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.



3. Ventilation and Air Conditioning System

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

- a. General Notes, Legends and Symbols including Schematic Diagram of the Ventilation and Air Conditioning System.
- b. Floor Layout of the Ventilation and Air Conditioning System indicating the capacity and location of the air conditioners and fans.
- c. Duct layout indicating duct sizes, route and location of the dampers, diffusers, return air register, hangers and sway braces.
- d. Refrigerant piping layout indicating pipe sizes, location of valves, hangers and sway braces.
- e. Equipment Schedule and Detailed drawings and calculations for Air Conditioning and Ventilating System
 - Air conditioning system shall be provided in all patient's private rooms, radiologic and imaging area, operating 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 gains factors and corrected cooling load temperature difference calculations.
 - Split type air conditioners will be used at areas with larger capacities.
 - 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.
 - 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 shall be provided in all non air-conditioned rooms, such as patient wards, work areas, nurse station, etc.

4. Medical Gases and Vacuum System

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

- a. Site Development Plan and Vicinity Map; indicating the location of the buildings, medical gases manifold and vacuum housing.
- b. General Notes, Legends and Symbols including Schematic Diagram of the Medical Gases and Vacuum System and Schematic Diagram of Alarm Monitoring System.

- c. 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.
 - d. Equipment Schedule, Details drawings and equipment layout.
 - e. 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.
5. Conveying System
- The conveyor 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.
 - c. Equipment Schedule, Detail Drawings and equipment Layout.
 - d. Architectural, Structural, Electrical and Plumbing Drawings of the Elevator System.
 - f. Hospital bed type elevator shall be provided in all multi-storey hospital buildings.
 - g. The minimum car size for elevators shall be 1,500mm wide and 2,150mm long.
 - h. The car door opening shall be not less than 1,100mm and 2,100mm high.
 - i. 2 Bed elevators, 1 Service/Passenger Elevator, 1 dumbwaiter
6. Specific Requirements
- Provide details of the following:
- a. Cistern Tanks and Elevated Water Tanks
 - b. Firewater Reserve Tank



7. Summary of Materials

a. Automatic Fire Sprinkler System

- The fire pump shall be UL Listed/FM Approved or approved equivalent, diesel engine or electric motor driven, designed specifically intended for an automatic water sprinkler protection system.
- The jockey pump shall be UL Listed/FM Approved or approved equivalent, electric motor driven, 220V, 3-phase, 60 hertz, and electric power connection.
- Sprinkler head shall be UL Listed/FM Approved or approved equivalent, pendant, upright or sidewall unit, 83 LPM flow capacity per head and temperature fusing at 57.5° C to 74°C.
- The alarm assembly shall be UL Listed/FM Approved or approved equivalent, 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.
- 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.
- Pipes shall be B.I. Schedule 40. Screw fittings shall be used for inside piping.

b. Air Conditioning and Refrigeration System

- Refrigerant pipes shall be copper tubing, type L or K for size of 100mm diameter and smaller. Pipe over 100mm shall be black steel pipe Schedule 40.
- 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.
- Pipe insulation shall be pre-formed fiberglass or its equivalent. The insulating materials shall be covered with 100mm x. 13mm thick polyethylene film, which shall be overlapped not less than 50mm.

c. Medical Gases and Vacuum System

- Medical gas manifold and vacuum plant shall be UL Listed/FM Approved or approved equivalent. b. All gas outlet stations shall be UL Listed/FM Approved or approved equivalent, quick connect type, or DISS type, stainless steel or PVC faceplate mounted on a chrome-plated, zinc die-cast cover plate.

d. Elevator System



- The passenger and service elevator shall be machine room less, or traction type only.

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

F. Electrical and Electronics Design Parameters

1. Codes and Standards

a. Codes:

- Philippine Electrical Code
- National Electrical Code
- New Fire Code of the Philippines
- National Building Code of the Philippines and Its New IRR
- Existing Local Codes and Ordinances

b. Standards:

- Bureau of Product Standards (BPS)
- Underwriters Laboratory (UL) or CE Listed or approved equivalent
- National Fire Protection Association (NFPA)
- International Electrotechnical Commission (IEC)
- Illumination Engineering Society (IES)
- National Electrical Manufacturer's Association (NEMA)
- DOH Manual on Technical Guidelines for Health Facilities Planning and Design

2. Site Works

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

a. Power House to the new proposed structures.

- KVA rating and other specifications of Transformer.
- Switchgear requirements
- Panelboard Layout
- Electrical Metering Devices
- Service Entrance Facility and Main Feeder Layout
- Grounding System
- Emergency/Standby Generators
- Street and Perimeter Lighting System



3. Building Facilities Electrical System

a. 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.

b. Power System

- Provide and install adequate normal branch circuits for the Power System.

c. Standby/Emergency Power System

- Provide and install adequate equipment, life safety and critical emergency branch circuits for lighting and utilization equipment connected to the alternate power source.

d. Lightning Protection and Grounding 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.

e. Emergency System shall be 100% back-up

- Provide and install adequate emergency lights in all areas which provide sufficient illumination in case of power outages.
- Provide and install directional exit lights, stairway lights and emergency exits.

f. Electrical Room

- Provide electrical room which houses panel board for every room with enough space for storage of cabinet for electrical supplies

g. Maintenance Access Duct

- Provide and install an access hanger duct with a minimum vertical clearance of 500mm. The access hanger duct is intended for electrical and plumbing maintenance
- Provide a minimum of three (3) inches diameter block out for every partition. The block out will be used for future installation of wires, cables and plumbing materials

4. Electronics System

Provide and install the following Electronics System:

a. Structural Cabling System (SCS)

- Telephone System
- Local Area Network System/Internet connection

b. Public Address & Paging System



Republic of the Philippines
CITY ARCHITECT DEPARTMENT
5th Floor, Civic Center Building D Quezon City Hall Compound, Diliman Quezon City
(02) 8988-4242 Local 1501, 1509 & 8166 | cityarchitect@quezoncity.gov.ph



- Private Branch Exchange (PABX)
 - c. Nurse Call System
 - Master or Cable Antenna Television
 - d. Fire Detection and Alarm System (FDAS)
 - e. Security System (Intrusion Detection, Access Control & CCTV)
5. Provide Details of the following:
- a. Lighting Fixtures/Luminaires
 - b. Panel board and Circuit Breakers
 - c. Switchgear and other Metering Devices
 - d. Electrical and Hospital Equipment
 - e. Installation and Termination of Electronics and other Special Devices and Equipment
 - f. Power and Telephone Handholes (as may be required)
 - g. Pedestal and Service Entrance Facility to the Bldg.
 - h. Grounding and Earthing System Layout
 - i. Substation/Power Room and Electrical Room
 - j. Transformer and Generator Mounting
 - k. Others as may be required.
 - l. Design analysis (to include voltage drop and short circuit computation)
6. Summary of Materials
- a. General Lighting Luminaries:
Fixtures type shall be as indicated on the Lighting Layout Plan.
 - LED Light Lamp shall be Linear or circular lamps.
 - LED light lamps shall be cool and lampholders shall be made of thermosetting plastic.
 - LED Light Fixture housing shall be steel sheet with high reflectance powder coat paint finish.
 - Down lights and Pin lights 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.
 - b. 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 outlets shall be as called for on the drawings.
- Matching plugs shall be supplied.
- Power outlet intended for mobile X-ray must be in separated circuit from standard CO.

c. Panel boards and Circuit Breakers:

The Panel board and Circuit Breakers shall be equipped with molded-case circuit breakers and shall be the type as indicated in the panel board 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 panel boards shall be plated. Provide solid neutral (S/N) assembly when required. The assembly shall be isolated from the enclosure.
- Panel boards shall be provided with circuit directory.

d. 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.

e. 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 degrees 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.

f. 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:

- 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.
 - 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.
 - 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.
 - Bathroom shall be provided with pull cord unit and reset unit.
 - Room indicator lamp shall be installed above the door of each patient's bedroom along the corridor.
 - Nurse stations shall be equipped with indicator unit to provide indication (audible and visual) of the zone and type of call.
 - Emergency indication shall be included in some acute areas but arranged "for staff use only" in the event of urgent assistance being required.
 - The system shall be of solid state switching with all items connected to internal printed circuit boards readily interchangeable for maintenance purpose.
 - X-ray light indicators.
- g. 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.
- h. Structured Cabling & Telephone System:
- A minimum provision for estimated 300 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.
- i. 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.
 - 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 monitor 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
- j. Security System:
- The Security system shall include intrusion detection and alarm, CCTV and access control or as may be required.
- k. Emergency Lights and Exit Signs:
- Installed in the office (Color: Green)
7. Drawing Requirements:
- See attached DOH Standard Checklists based on Revised IRR of the National Building Code of the Philippines (PD 1096)

G. Local Area Network (LAN) Design Parameters

1. Codes and Standards

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

a. Standards:

- 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
- ANSI/TIA/EIA-568
- TR-49 (a new TIA Engineering Committee for Healthcare Communications Technology)

2. 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.

3. Information and Communication Technology (ICT) Component

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

- 300 data nodes distributed to Hospital's office area
- 300 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

- 300 data nodes distributed to the Offices
- Category 6, 4-pair UTP cable shall be 23AWG, 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
 - 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)
 - Power Sum Attenuation to Crosstalk Ratio (PSACR)
 - Near End Crosstalk (NEXT)
 - Power Sum Near-End Crosstalk (PSNEXT)
 - Equal Level Far-End Crosstalk (ELFEXT)
 - Power Sum Equal Level Far-End Crosstalk (PSELEXT)
 - Return Loss
 - Propagation Delay
 - Delay Skew
 - Transfer Impedance
4. Voice Connectivity
- a. 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 ASI/TIA/EIA-568-B.2
 - b. Category 6 Information Outlet/ Modular Jack
 - c. Telecommunication Terminal Cabinet shall be wall-mounted and has sufficient space or dimension to accommodate required wiring components
 - d. Wiring blocks shall be 100-pair count, wall mountable, with legs and shall fit traditional cross-connect backboard space and layout.
5. Cabling for CCTV Security System
6. Other Requirement/s
7. Supply of Communication cabinets (Intermediate Distribution Frame) for each floor of the building




XI. REQUIRED COORDINATION

In all the phases of the preparation of the required designs and plans, and during the construction of the proposed project, the Architect-Consultant shall undertake close coordination with the City through the City Health Department and the City Architect Department.

Prepared and Submitted by:

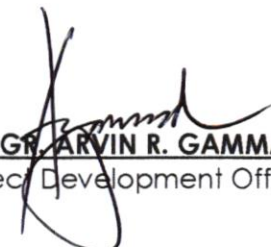

AR. RUEL G. RESURRECCION
Architect V


AR. MICHAEL B. VENTURA
Architect IV


ENGR. RICARDO E. DEBALOCOS JR.
Senior Operations Officer IV


ENGR. EMMANUEL R. SIBUCAO
Senior Operations Officer IV


ENGR. ERWIN R. SIBUCAO
Special Operations Officer III


ENGR. ARVIN R. GAMMAD
Project Development Officer II

Recommending Approval:


AR. LUCILLE H. CHUA, FUAP PIEP
City Architect



Republic of the Philippines
CITY ARCHITECT DEPARTMENT
 5th Floor, Civic Center Building D Quezon City Hall Compound, Diliman Quezon City
 (02) 8988-4242 Local 1501, 1509 & 8166 | cityarchitect@quezoncity.gov.ph



Republic of the Philippines
 Department of Health
NATIONAL CENTER FOR HEALTH FACILITY DEVELOPMENT
 Bldg. No. 4, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila 1003
 Tel. Nos. 743-83-01 loc. 1453 and 1454



Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)

Project : _____
 Location : _____

SHEET NUMBER	SHEET CONTENTS	REMARKS *
	ARCHITECTURAL DRAWINGS (as applicable)	
A - 1 (a...n)	Perspective, Site Development Plan, Vicinity Map/Location Plan (2.00 Kms. Radius) Table of Contents	
A - 2 (a...n)	Floor Plans (scale 1:100m minimum) including furniture layout when necessary	
A - 3 (a...n)	Four (4) Elevations (scale 1:100m minimum)	
A - 4 (a...n)	Two (2) Sections (scale 1:100m minimum) including spot details when necessary	
A - 5 (a...n)	Roof Plan/s showing downspouts (scale 1:100m minimum), including detail of gutter, downspout, etc.	
A - 6 (a...n)	Reflected ceiling plan/s (scale 1:100m minimum), including details	
A - 7 (a...n)	Details of Stairs, fire escapes/exits, accessible ramps, etc. (scale 1:50m), including details of railings, treads, risers, etc., in the form of plans, elevation/section	
A - 8 (a...n)	Details of Toilets (1:50 m) including accessible toilets in the form of plans, elevation/section	
A - 9 (a...n)	Details of specialized design features (scale 1:50 m) such as partitions, cabinets, etc. and accessible design features	
A - 10 (a...n)	Detail of typical bay section from ground to roof (scale 1:50 m)	
A - 11 (a...n)	Details of special rooms (1:50 m) in the form of plans, elevations/section	
A - 12 (a...n)	Schedule of doors, gates, emergency exits, etc. (scale 1:50 m), including specifications for materials and hardware	
A - 13 (a...n)	Schedule of windows (scale 1:50 m), including specifications for materials and hardware	
A - 14 (a...n)	Schedule of finishes for interior and exterior floors, walls, ceilings	
	Architectural Technical Specifications	
	Architectural Scope of Works	
	Architectural Bill of Quantities	
* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)		
Evaluated by: _____		



Republic of the Philippines
CITY ARCHITECT DEPARTMENT
 5th Floor, Civic Center Building D Quezon City Hall Compound, Diliman Quezon City
 (02) 8988-4242 Local 1501, 1509 & 8166 | cityarchitect@quezoncity.gov.ph



Republic of the Philippines
 Department of Health
NATIONAL CENTER FOR HEALTH FACILITY DEVELOPMENT
 Bldg. No. 4, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila 1003
 Tel. Nos. 743-83-01 loc. 1453 and 1454



Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)

Project : _____
 Location : _____

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	ARCHITECTURAL INTERIOR DESIGN DRAWINGS (as applicable)	
AID – 1 (a...n)	Floor Plans showing layout of floor finishes (scale 1:100m minimum)	
AID – 2 (a...n)	Floor Plans showing layout of furniture/finishing partitions, cabinets, etc. (scale 1:100m minimum)	
AID – 3 (a...n)	Interior Elevations and Sections showing wall patterns, ceiling sections, etc. (scale 1:100m minimum)	
AID – 4 (a...n)	Details of Partitions, Cabinets, Furniture, Ceiling and other Interior Design Features (scale 1:100m minimum)	
AID – 5 (a...n)	Architectural Interior Perspective/s	
	Architectural Interior Design Technical Specifications	
	Architectural Interior Design Scope of Works	
	Architectural Interior Design Bill of Quantities	
* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)		
Evaluated by: _____		



Republic of the Philippines
CITY ARCHITECT DEPARTMENT
 5th Floor, Civic Center Building D Quezon City Hall Compound, Diliman Quezon City
 (02) 8988-4242 Local 1501, 1509 & 8166 | cityarchitect@quezoncity.gov.ph



Republic of the Philippines
 Department of Health
NATIONAL CENTER FOR HEALTH FACILITY DEVELOPMENT
 Bldg. No. 4, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila 1003
 Tel. Nos. 743-83-01 loc. 1453 and 1454



Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed
 Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)

Project : _____
 Location : _____

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	STRUCTURAL DRAWINGS (as applicable)	
S - 1 (a...n)	General Notes and Construction Standards	
S - 2 (a...n)	Site Development Plan	
S - 3 (a...n)	Foundation Plan/s (scale 1:100m minimum)	
S - 4 (a...n)	Floor Framing Plan/s (scale 1:100m minimum)	
S - 5 (a...n)	Roof Framing Plan (scale 1:100m minimum)	
S - 6 (a...n)	Schedule and Detail of Footings and Columns	
S - 7 (a...n)	Schedule and Detail of Beams and Floor Slabs	
S - 8 (a...n)	Detail of Trusses	
S - 9 (a...n)	Details of Stairs, Ramps, Fire Exits	
S - 10 (a...n)	Other Spot details	
	Structural Analysis and Design (for 2 storey building and higher)	
	Boring and Land Test Results (for 3 storey building and higher)	
	Seismic Analysis	
	Structural Technical Specifications	
	Structural Scope of Works	
	Structural Bill of Quantities	
* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)		
Evaluated by: _____		Page 3 of 6



Republic of the Philippines
CITY ARCHITECT DEPARTMENT
 5th Floor, Civic Center Building D Quezon City Hall Compound, Diliman Quezon City
 (02) 8988-4242 Local 1501, 1509 & 8166 | cityarchitect@quezoncity.gov.ph



Republic of the Philippines
 Department of Health
NATIONAL CENTER FOR HEALTH FACILITY DEVELOPMENT
 Bldg. No. 4, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila 1003
 Tel. Nos. 743-83-01 loc. 1453 and 1454



Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)

Project : _____
 Location : _____

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	ELECTRICAL DRAWINGS (as applicable)	
E - 1 (a...n)	General Notes and Legends	
E - 2 (a...n)	Location and Site Plan	
E - 3 (a...n)	Lighting Layout (scale 1:100m minimum) including details	
E - 4 (a...n)	Power Layout (scale 1:100m minimum) including details	
E - 5 (a...n)	Auxiliary System Layout (scale 1:100m minimum) including details	
E - 6 (a...n)	Schedule and Detail of Loads	
E - 7 (a...n)	Riser Diagram	
E - 8 (a...n)	Other Detail	
	Electrical Computation	
	Design Analysis	
	Electrical Technical Specifications	
	Electrical Scope of Works	
	Electrical Bill of Quantities	
* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)		
Evaluated by: _____		Page 4 of 6

AUXILIARY SYSTEM INCLUDES THE FF:

1. Telephone System
2. Paging System
3. LAN System
4. Fire Alarm System



Republic of the Philippines
CITY ARCHITECT DEPARTMENT
 5th Floor, Civic Center Building D Quezon City Hall Compound, Diliman Quezon City
 (02) 8988-4242 Local 1501, 1509 & 8166 | cityarchitect@quezoncity.gov.ph



Republic of the Philippines
 Department of Health
NATIONAL CENTER FOR HEALTH FACILITY DEVELOPMENT
 Bldg. No. 4, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila 1003
 Tel. Nos. 743-83-01 loc. 1453 and 1454



Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)

Project : _____
 Location : _____

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	PLUMBING/SANITARY DRAWINGS (as applicable)	
P – 1 (a...n)	General Notes and Legends	
P – 2 (a...n)	Location and Site Plan	
P – 3 (a...n)	Storm Drainage Layout (scale 1:100m minimum) including actual length of tapping line to Main Drainage Line	
P – 4 (a...n)	Waterline Layout (scale 1:100m minimum) including actual length of tapping line from main water source when applicable	
P – 5 (a...n)	Sewerline Layout (scale 1:100m minimum) including actual length of tapping line to septic tank or existing sewerline	
P – 6 (a...n)	Isometric Layout, showing waterline, sewerline and drainage line	
P – 7 (a...n)	Detail of connections, catch basins, downspouts, etc.	
P – 8 (a...n)	Detail of Septic Tank/Sewer Treatment Plant	
	Design Analysis	
	Sanitary Technical Specifications	
	Sanitary Scope of Works	
	Sanitary Bill of Quantities	
* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)		
Evaluated by: _____		Page 5 of 6



Republic of the Philippines
CITY ARCHITECT DEPARTMENT
 5th Floor, Civic Center Building D Quezon City Hall Compound, Diliman Quezon City
 (02) 8988-4242 Local 1501, 1509 & 8166 | cityarchitect@quezoncity.gov.ph



Republic of the Philippines
 Department of Health
NATIONAL CENTER FOR HEALTH FACILITY DEVELOPMENT
 Bldg. No. 4, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila 1003
 Tel. Nos. 743-83-01 loc. 1453 and 1454



Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)

Project : _____
 Location : _____

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	MECHANICAL DRAWINGS (as applicable)	
M - 1 (a...n)	General Notes and Legends, Site Development Plan, Location Plans	
M - 2 (a...n)	Floor Plans/Isometric Drawings (scale 1:100m minimum) showing Ventilation and Air Conditioning Systems and other installations	
M - 3 (a...n)	Floor Plans/Isometric Drawings (scale 1:100m minimum) of Medical Gaspipeline System and Details	
M - 4 (a...n)	Floor Plans/Isometric Drawings (scale 1:100m minimum) of Air-conditioning Systems and Details	
M - 5 (a...n)	Floor Plans/Isometric Drawings (scale 1:100m minimum) of Fire Suppression Systems, fire sprinkler system, wet stand pipe, dry standpipe and other installation	
M - 6 (a...n)	Details Water Tank, Flow Diagram (scale 1:50m)	
M - 7 (a...n)	Details of Firewater Supply Sytem (scale 1:50m)	
M - 8 (a...n)	Detail of Elevators, Escalators, Dumbwaiters, etc. (scale 1:50m)	
M - 9 (a...n)	Detail of Other Machinery/Equipment (scale 1:50)	
M - 10 (a...n)	Longitudinal and Transverse Section of Building (scale 1:100m) showing manner of support of machines/equipment	
	Mechanical Technical Specifications	
	Mechanical Scope of Works	
	Mechanical Bill of Quantities	
* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)		
Evaluated by: _____		Page 6 of 6