

PHILIPPINE BIDDING DOCUMENTS

Sixth Edition

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

CONSTRUCTION OF SEWAGE TREATMENT PLANT (DESIGN AND BUILD) AT SSS MAIN BUILDING, EAST AVENUE, DILIMAN, QUEZON CITY

ITB-SSS-Civil-2021-005

SEPTEMBER 2021

Eleanor Marie V. Santos-Parian TWG Chairperson

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs - Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

SSS – Social Security System.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

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Section I. Invitation to Bid





REPUBLIC OF THE PHILIPPINES SOCIAL SECURITY SYSTEM

East Avenue, Diliman, Quezon City Tel. Nos. (632)8920-6401*(632)8920-6446

E-mail: member relations@sss.gov.ph*Website http://www.sss.gov.ph

Invitation to Bid ITB-SSS-Civil-2021-005

CONSTRUCTION OF SEWAGE TREATMENT PLANT (DESIGN AND BUILD) AT SSS MAIN BUILDING, EAST AVENUE, DILIMAN, QUEZON CITY

Approved Budget for the	Delivery/	Price of Bid	Schedule of Activities	
Contract (ABC)	Completion	Documents	Date/Time	
& Source of Fund	Period	(non-	Pre-bid Conference	Deadline of submission
		refundable)		and receipt of bids
₱21,873,000.00	Ten (10)	₱13,500.00	September 16, 2021	October 7, 2021
	months		(Thursday)	(Thursday)
Approved 2021	from receipt		2:30pm	2:00pm
Corporate Operating	of Notice to			
Budget – Capital	Proceed and			
Outlay with Code PAP	Signed			
(385) of the 2021	Contract			
Annual Procurement				
Plan				

- 1. The SOCIAL SECURITY SYSTEM (SSS) now invites bids for the above Procurement Project. Completion of the Works is required ten (10) months. Bidders should have completed a contract similar to the Project in the last five (5) years prior to the submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II Instructions to Bidders.
- 2. Bids received in excess of the ABC shall be automatically rejected at Bid opening.
- 3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- 4. Interested bidders may obtain further information from SSS and inspect the Bidding Documents at the address in the last item of the ITB from Monday to Friday, 8:00 a.m. to 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders starting 07 September 2021 up to the scheduled submission & opening of bids from the address stated in the last item of the ITB and upon payment of the applicable fee for the Bidding Documents, in the amount specified above.

The mode of payment will be on a cash basis payable at the SSS Cash Department, SSS Main Bldg., Ground floor, upon accomplishment of SSS Form R-6. The Bidding Documents shall be received personally by the prospective Bidder or his authorized representative.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the SSS, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids .

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6. The SSS will hold a Pre-Bid Conference on the date and time specified above at the Bidding Room, 2nd Floor, SSS Main Bldg., East Avenue, Diliman, Quezon City which shall be open to prospective bidders, but attendance shall not be mandatory.

The Pre-Bid Conference will be conducted through online conference using Microsoft Teams. Kindly e-mail us on or before 15 September 2021, through e-mail address bac@sss.gov.ph, the following:

- a. Name of the representative and e-mail address; and
- b. Technical and administrative queries.
- 7. Bids must be duly received by the BAC Secretariat at the Bidding Room, 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City on the deadline specified above. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in the ITB Clause 14.

Bid opening shall be on the date and time specified above at the Bidding Room, 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City. Bids will be opened in the presence of the Bidders' representatives who choose to attend at the address above. Late bids shall not be accepted.

- 8. References to the dates and times shall be based on Philippine Standard time. Should any of the above dates fall on a holiday, the deadline shall be extended to the same time on the immediately succeeding business day in Quezon City.
- 9. The SSS 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. The SSS assumes no obligation to compensate or indemnify parties for any expense or loss that they may incur as a result of their participation in the procurement process, nor does SSS BAC guarantees that an award will be made as a result of this invitation. Furthermore, the SSS reserves the right to waive any defects or formality in the responses to the eligibility requirements and to this invitation and reserves the right to accept the proposal most advantageous to the agency.
- 11. For further information, please refer to:

Bids & Awards Committee The Secretariat

2nd Flr., SSS Main Bldg., East Ave., Diliman, Q.C. Tel # (632) 8922-1070; 8920- 6401 local 5492 & 6382 Email – bac@sss.gov.ph

12. Bidding documents may be downloaded from the PROCUREMENT tab at www.sss.gov.ph starting **07 September 2021**.

THE CHAIRPERSON
RIDS & AWARDS COMMITTEE

ref.: itb-sss-civil-2021-005-Construction of Sewage Treatment Plant

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Section II. Instructions to Bidders



1. Scope of Bid

The Procuring Entity, *Social Security System* wishes to receive Bids for the Construction of Sewage Treatment Plant (Design and Build) at SSS Main Building, East Avenue, Diliman, Quezon City, with identification number ITB-SSS-Civil-2021-005.

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for *CY2021* in the amount of Twenty-One Million Eight Hundred Seventy-Three Thousand Pesos (\$\mathbb{P}21,873,000.00\$).
- 2.2. The source of funding is: Approved 2021 Corporate Operating Budget Capital Outlay with Code PAP (385) of the 2021 Annual Procurement Plan (APP)

3. Bidding Requirements

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

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

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

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

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

5. Eligible Bidders

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

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

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

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

- a. Subcontracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed fifty percent (50%) of the contracted Works.
- 7.2. The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.3. The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in ITB Clause 5 to the implementing or end-user unit.
- 7.4. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address **Bidding Room**, **2nd Floor**, **SSS Main Bldg.**, **East Avenue**, **Diliman**, **Quezon City and/or through online conference using Microsoft Teams** as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

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10. Documents Comprising the Bid: Eligibility and Technical Components

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

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14. Bid and Payment Currencies

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

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until <u>One Hundred Twenty</u> (120) <u>Calendar Days from the Date of the Bid Opening</u>. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

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

20. Post Qualification

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

21. Signing of the Contract

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

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Section III. Bid Data Sheet



Bid Data Sheet

ITB Clause				
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which consists mainly of design and/or construction of sewage and wastewater treatment plant, as detailed in the Terms of Reference and Technical Specifications			
7.1	Sub-contracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted shall not exceed fifty percent (50%) of the project.			
	If the bidder has no experience in design and build projects on its own, it may subcontract the design portion of the contract with design or engineering firms or the civil works, or electrical and instrumentation works, or mechanical works of the contract to general contractors in accordance with 9.2 ii. b) of Annex "G" of the 2016 Revised IRR of RA 9184.			
7.2	The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in ITB Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.			
10.1	The first envelope shall contain the eligibility and technical documents of the Bid as specified in Section IX . Checklist of Technical and Financial Documents and shall include the following additional documents pursuant to Annex "G", Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects:			
	 i. Preliminary Conceptual Design Plans in accordance with the degree of details specified by the procuring entity (<i>Please refer to Annex B of Section VII. Drawings</i>); 			
	ii. Design and co	nstruction methods;		
	iii. List of design and construction personnel, to be assigned to the contract to be bid, with their complete qualification and experience data; and			
	iv. Value enginee	ring analysis of design and construction method.		
10.3	PCAB License and Registration			
	Category: C&D Size and Range: Small B Classification: General building			
10.4	The key personnel must meet the required minimum years of experience set below:			
	Pre-Construction Stage (Detailed Engineering Design)			
	Key Personnel Qualifications and Experience Required			
	1 Project Manager/ Design Architect/Engineer • with professional license (Architect/Engineer) • With at least ten (10) years of experience in project management and design			
	Structural Engineer With Civil Engineer license With at least five (5) years of experience in structural design with similar and comparable projects			



3	Sanitary Engineer/Waste Water Specialist	 with Sanitary Engineer license With at least five (5) years of experience in the design of building water supply and distribution, plumbing, and waste water treatment & management Preferably knowledgeable in waste water management/treatment and emergent, alternative effluent collection and treatment systems 	
4	Electrical Engineer	 with Professional Electrical Engineer license With at least three (3) years of experience in the design of lighting, and power distribution Preferably knowledgeable in emergent efficient lighting technologies and energy management 	
5	MechanicalEngineer	 with Professional Mechanical Engineer license With at least three (3) years of experience in mechanical systems, HVAC and fire protection systems 	
6	Electronics Engineer	with Professional Electronics Engineer license With at least three (3) years of experience in the design of communication and building management systems (e.g. PABX, structured and local area network cabling, etc.)	

Construction Stage

	Key Personnel	Qualifications and Experience Required
1	Project Manager	 with professional license (Architect/Engineer) With at least ten (10) years of experience in project management and similar comparable projects
2	Project Architect/Engineer	 with professional license (Architect/Engineer) With at least five (5) years of experience in similar and comparable projects Preferably knowledgeable in the application of rapid construction technologies
3	Materials Engineer	Must be duly accredited Materials Engineer With at least three (3) years of experience in similar and comparable projects Preferably knowledgeable in the application of rapid construction technologies
4	Electrical Engineer	 with Professional Electrical Engineer license With at least three (3) years of experience in the design of lighting, and power distribution Preferably knowledgeable in emergent efficient lighting technologies and energy management
5	Electronics Engineer	with Professional Electronics Engineer license With at least three (3) years of experience in the installation of communication and building management systems (e.g. PABX, structured and local area network cabling, etc.) in similar comparable projects
6	Mechanica1Engineer	 with Professional Mechanical Engineer license With at least three (3) years of experience in similar and comparable projects in the installation of mechanical, HVAC and fire protection systems
7	Sanitary Engineer	 with Sanitary Engineer license With at least three (3) years of experience in similar and comparable projects in installation of building water supply and distribution, plumbing and waste water treatment & management
8	Foreman	With at least three (3) years of experience in similar and comparable projects
9	Safety Officer	 Must be an accredited safety practitioner by the Department of Labor and Employment (DOLE) With at least one (1) year of experience as Safety Officer Must have undergone the prescribed 40-hour Construction Safety and Health (COSH) Training



	Post - Construction Stage			
	Key Staff/Personnel	Qualifications and Experience required		
	1. Project Engineer-in-charge	 with professional license With at least three (3) years of experience in project management and similar comparable projects knowledgeable in wastewater management/ treatment and emergent, alternative effluent collection and treatment systems 		
	2. Technicians (3)	With at least one (1) year of experience in similar and comparable projects in installation of building water supply and distribution, plumbing, and wastewater treatment & management		
10.5	Standard equipment for the Design and Construction of Sewage Treatment Plant.			
11.1	The second envelope shall contain the financial documents for the Bid as specified in Section IX. Checklist of Technical and Financial Documents and shall include the following additional documents <i>pursuant to Annex "G" Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects:</i>			
	ii. Detailed estimates including a summary sheet indicating the unit prices of construction materials, labor rates and equipment rentals used in coming up with the bid; and			
	iii. Cash flow and payments schedule.			
12	As provided for in the Performance Specifications and Terms of Reference and Technical Specifications which are integral parts of the bidding documents.			
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than PhP 437,460.00, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;			
	b. The amount of not less than PhP1,093,650.00 , if bid security is in Surety Bond.			
18.2	(Annex "G" Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects)			
	11. BID EVALUATION			
	For the detailed evaluation of the design and build proposals a two-step procedure shall be adopted by the BAC, which may be undertaken with the assistance of the DBC.			
	11.1. First-Step Procedure:			
	i. The first step of the evaluation shall involve the review of the preliminary conceptual designs and track record submitted by the contractor as indicated in the Bidding Documents using a nondiscretionary "pass/fail" criteria that involve compliance with the following requirements:			
	a. Adherence of preliminary design plans to the required performance specifications and parameters and degree of details;			



Concept of approach and methodology for detailed engineering, design and construction with emphasis on the clarity, feasibility, innovativeness and comprehensiveness of the plan approach, and the quality of interpretation of project problems, risks, and suggested solutions; c. 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; ii. For complex or unique undertakings, such as those involving highly specialized or advanced engineering technology, eligible bidders may be required, at the option of the agency concerned, to make an oral presentation within fifteen (15) calendar days after the deadline for submission of technical proposals. 11.2. Second-Step Procedure: Only those bids that passed the above criteria shall be subjected to the second step of evaluation. The BAC shall open the financial proposal of each "passed" bidder and shall evaluate it using non-discretionary criteria - including arithmetical corrections for computational errors - as stated in the Bidding Documents, and thus determine the correct total calculated bid prices. The BAC shall automatically disqualify any total calculated bid price which exceeds the ABC. The total calculated bid prices (not exceeding the ABC) shall be ranked, in ascending order, from lowest to highest. The bid with the lowest total calculated bid price shall be identified as the Lowest Calculated Bid (LCB). Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award. The Lowest Calculated Bidder shall submit the following: Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document 2. Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR) Latest Audited Financial Statements 5. Latest income tax return corresponding to the Audited Financial Statements submitted, filed electronically (EFPS); Quarterly VAT (business tax returns) per Revenue Regulations 3-2005 for the last six (6) months filed electronically (EFPS);

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21	Additional contract documents relevant to the Project:
	1. STP Treatment and Process Flow Sheet
	2. Final detailed architectural and engineering design approved by SSS
	3. Technical Specifications and Cost Estimates/BOQ
	4. Construction Schedule and S-Curve including PERT-CPM
	5. Manpower Schedule
	6. Construction Methodology
	7. Equipment Utilization Schedule
	8. Construction Safety and Health Program approved by DOLE
	9. Affidavit of Compliance to Specifications of Finishes and Materials, and Scope of Works
	10. Contractor's All Risk Insurance



Section IV. General Conditions of Contract



1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract** (SCC), references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

- 3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
 - 3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

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6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.
- 11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

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12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC**.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the SCC from payments due to the Contractor.

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Section V. Special Conditions of Contract



Special Conditions of Contract

GCC			
Clause			
3.1	Refer to the Terms of Reference and Technical Specifications The Procuring Entity shall give possession of all parts of the Site to the Contractor on the date of receipt of Notice to Proceed.		
6	Not Applicable		
7.2	Fifteen (15) years.		
8	Liability of the Contractor		
	1. CONFIDENTIALITY. Neither party shall, without the prior written consent of the other, disclose or make available to any person, make public, or use directly or indirectly, except for the performance and implementation of the works, any confidential information, acquired from an information holder in connection with the performance of this Contract, unless: (i) the information is known to the disclosing party, as evidenced by its written records, prior to obtaining the same from the information holder and is not otherwise subject to disclosure restrictions on the disclosing party, (ii) the information is disclosed to the disclosing party by a third party who did not receive the same, directly or indirectly, from an information holder, and who has no obligation of secrecy with respect thereto, or (iii) required to be disclosed by law. The obligation of confidentiality by both parties, as provided herein, shall survive the termination of the Agreement.		
	2. MERGER AND CONSOLIDATION. In case of merger, consolidation or change of ownership of the CONTRACTOR with other company, it is the responsibility of the surviving company/consolidated company/acquiring entity to inform SSS of the change in corporate structure/ownership. Failure to do so shall translate in such company assuming all liabilities of the acquired/merged company under the Agreement.		
	3. FORCE MAJEURE. SUPPLIER shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that CONTRACTOR's delay in performance or other failure to perform its obligations under this Agreement is the result of a force majeure.		
	For purposes of this Agreement the terms "force majeure" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or force majeure shall be interpreted to mean an event which CONTRACTOR could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by CONTRACTOR. Such events may include, but not limited to, acts of SSS in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.		
	If a force majeure situation arises, CONTRACTOR shall promptly notify SSS in writing of such condition and the cause thereof. Unless otherwise directed by SSS in writing, CONTRACTOR shall continue to perform its obligations under this Agreement as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the force majeure.		
	4. NON-ASSIGNMENT. CONTRACTOR shall not assign its rights or obligations under this Agreement, in whole or in part, except with SSS's prior written consent. CONTRACTOR shall not subcontract in whole or in part the PROJECT and deliverables subject of this Agreement without the written consent of SSS.		



- 5. WAIVER. Failure by either party to insist upon the other strict performance of any of the terms and conditions hereof shall not be deemed a relinquishment or waiver of any subsequent breach or default of the terms and conditions hereof, which can only be deemed made if expressed in writing and signed by its duly authorized representative. No such waiver shall be construed as modification of any of the provisions of the Agreement or as a waiver of any past or future default or breach hereof, except as expressly stated in such waiver.
- 6. CUMULATIVE REMEDIES. Any and all remedies granted to the parties under the applicable laws and the Contract shall be deemed cumulative and may therefore, at the sole option and discretion, be availed of by the aggrieved party simultaneously, successively, or independently.
- 7. NO EMPLOYER-EMPLOYEE RELATIONSHIP. It is expressly and manifestly understood and agreed upon that the employees of CONTRACTOR assigned to perform the PROJECT are not employees of SSS. Neither is there an employer-employee relationship between SSS and CONTRACTOR.

The Agreement does not create an employer-employee relationship between SSS and the CONTRACTOR including its personnel; that the services rendered by the personnel assigned by CONTRACTOR to SSS in the performance of its obligation under the contract do not represent government service and will not be credited as such; that its personnel assigned to SSS are not entitled to benefits enjoyed by SSS' officials and employees such as Personal Economic Relief Allowance (PERA), Representation and Transportation Allowance (RATA), ACA, etc.; that these personnel are not related within the third degree of consanguinity or affinity to the contracting officer and appointing authority of SSS; that they have not been previously dismissed from the government service by reason of an administrative case; that they have not reached the compulsory retirement age of sixty-five (65); and that they possess the education, experience and skills required to perform the job. The CONTRACTOR hereby acknowledges that no authority has been given by SSS to hire any person as an employee of the latter. Any instruction given by SSS or any of its personnel to CONTRACTOR's employees are to be construed merely as a measure taken by the former to ensure and enhance the quality of project performed hereunder. The CONTRACTOR shall, at all times, exercise supervision and control over its employees in the performance of its obligations under the contract.

- 8. PARTNERSHIP. Nothing in the contract shall constitute a partnership between the parties. No party or its agents or employees shall be deemed to be the agent, employee or representative of any other party.
- 9. COMPLIANCE WITH SS LAW. CONTRACTOR shall report all its employees to SSS for coverage and their contributions, as well as, all amortizations for salary/education/calamity and other SSS loans shall be updated. Should CONTRACTOR fail to comply with its obligations under the provisions of the SS Law and Employees' Compensation Act, SSS shall have the authority to deduct any unpaid SS and EC contributions, salary, educational, emergency and/or calamity loan amortizations, employer's liability for damages, including interests and penalties from CONTRACTOR's receivables under this Agreement.

Further, prescription does not run against SSS for its failure to demand SS contributions or payments from CONTRACTOR. Moreover, CONTRACTOR shall forever hold in trust SS contributions or payments of its employees until the same is fully remitted to SSS.

10. COMPLIANCE WITH LABOR LAWS. CONTRACTOR, as employer of the personnel assigned to undertake the PROJECT, shall comply with all its obligations under existing laws and their implementing rules and regulations on the payment of minimum wage, overtime pay, and other labor-related benefits as well as remittances or payment of the appropriate amount or contributions/payment (SSS, EC, Pag-IBIG, PhilHealth and taxes) with concerned government agencies/offices.

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It is agreed further, that prior to the release of any payment by SSS to SUPPLIER, its President or its duly authorized representative, shall submit a sworn statement that all monies due to all its employees assigned to the PROJECT as well as benefits by law and other related labor legislation have been paid by CONTRACTOR and that he/she assumed full responsibility thereof.

11. COMPLIANCE WITH TAX LAWS. CONTRACTOR shall, in compliance with tax laws, pay the applicable taxes in full and on time and shall regularly present to SSS within the duration of the Contract, tax clearance from the Bureau of Internal Revenue (BIR) as well as copy of its income and business tax returns duly stamped by the BIR and duly validated with the tax payments made thereon. Failure by CONTRACTOR to comply with the foregoing shall entitle SSS to suspend payment of the Contract Price.

As required under Executive Order (EO) 398, s. 2005, CONTRACTOR shall submit income and business tax returns duly stamped and received by the BIR, before entering and during the duration of this Agreement. CONTRACTOR, through its responsible officer, shall also certify under oath that it is free and clear of all tax liabilities to the government. CONTRACTOR shall pay taxes in full and on time and that failure to do so will entitle SSS to suspend or terminate this Agreement.

- 12. LIQUIDATED DAMAGES. If CONTRACTOR fails to satisfactorily deliver any or all of the Goods and/or to perform the Services within the period(s) specified in the PBD inclusive of duly granted time extensions if any, SSS shall, without prejudice to its other remedies under this Agreement and under the applicable law, deduct from the Contract Price, as liquidated damages, the applicable rate of one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance. Once the amount of liquidated damages reaches ten percent (10%), SSS may rescind or terminate this Agreement, without prejudice to other courses of action and remedies open to it.
- 13. HOLD FREE and HARMLESS. SUPPLIER agrees to defend, indemnify, and hold SSS free and harmless from any and all claims, damages, expenses, fines, penalties and/or liabilities of whatever nature and kind, whether in law or equity, that may arise by reason of the implementation of the Agreement. In addition, CONTRACTOR agrees to indemnify SSS for any damage as a result of said implementation.

SUPPLIER hereby assumes full responsibility for any injury, including death, loss or damage which may be caused to SSS' employees or property or third person due to CONTRACTOR's employees' fault or negligence, and further binds itself to hold SSS free and harmless from any of such injury or damage. SSS shall not be responsible for any injury, loss or damage which CONTRACTOR or any of its employees may sustain in the performance of CONTRACTOR's obligations under this Agreement.

14. SETTLEMENT OF DISPUTES. If any dispute or difference of any kind whatsoever shall arise between SSS and CONTRACTOR in connection with or arising out of this Agreement, the Parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

If after thirty (30) days, the Parties have failed to resolve their dispute or difference by such mutual consultation, then either SSS or CONTRACTOR may give notice to the other Party of its intention to commence arbitration, in accordance with RA No. 876, otherwise known as the "Arbitration Law" and RA No. 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004," in order to settle their disputes.

No arbitration in respect of this matter may be commenced unless such notice is given.

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Notwithstanding any reference to arbitration herein, the Parties shall continue to perform their respective obligations under this Agreement unless they otherwise agree.

- 15. VENUE OF ACTIONS. In the event court action is necessary in order to promote Arbitration, such action shall be filed only before the proper courts of Quezon City, to the exclusion of all other venues.
- 16. GOVERNING LAW. The Agreement shall be governed by and interpreted according to the laws of the Republic of the Philippines.
- 17. AMENDMENTS. This Agreement may be amended only in writing and executed by the parties or their duly authorized representatives.
- 18. SEPARABILITY. If any one or more of the provisions contained in the contract or any document executed in connection herewith shall be invalid, illegal or unenforceable in any respect under any applicable law, then: (i) the validity, legality and enforceability of the remaining provisions contained herein or therein shall not in any way be affected or impaired and shall remain in full force and effect; and (ii) the invalid, illegal or unenforceable provision shall be replaced by the parties immediately with a term or provision that is valid, legal and enforceable and that comes closest to expressing the intention of such invalid illegal or unenforceable term of provision.
- 19. BINDING EFFECT. The Agreement shall be binding upon the Parties hereto, their assignee/s and successor/s-in-interest.
- Dayworks are applicable at the rate shown in the Contractor's original Bid.

11.1 (Annex "G" Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects)

CONTRACT IMPLEMENTATION

As a rule, contract implementation guidelines for the procurement of infrastructure projects shall comply with Annex "E" of this IRR. The following provisions shall supplement these procedures:

- 13.1. No works shall commence unless the contractor has submitted the required documentary requirements and the procuring entity has given written approval. Work execution shall be in accordance with reviewed and approved documents.
- 13.2. The contractor shall be responsible for obtaining all necessary information as to risks, contingencies and other circumstances which may affect the works and shall prepare and submit all necessary documents specified by the procuring entity to meet all regulatory approvals as specified in the contract documents.
- 13.3. The Contractor shall submit a detailed program of work within fourteen (14) calendar days after the issuance of the Notice to Proceed for approval by the procuring entity that shall include, among others:
 - i. The order in which it intends to carry out the work including anticipated timing for each stage of design/detailed engineering and construction;
 - ii. Periods for review of specific outputs and any other submissions and approvals;
 - iii. Sequence of timing for inspections and tests as specified in the contract documents;
 - iv. General description of the design and construction methods to be adopted;

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- v. Number and names of personnel to be assigned for each stage of the work:
- vi. List of equipment required on site for each major stage of the work; and
- vii. Description of the quality control system to be utilized for the project.
- 13.4. Any errors, omissions, inconsistencies, inadequacies or failure submitted by the contractor that do not comply with the requirements shall be rectified, resubmitted and reviewed at the contractor's cost. If the Contractor wishes to modify any design or document which has been previously submitted, reviewed and approved, the contractor shall notify the procuring entity within a reasonable period of time and shall shoulder the cost of such changes.
- 13.5. As a rule, changes in design and construction requirements shall be limited only to those that have not been anticipated in the contract documents prior to contract signing and approval. The following guidelines shall govern approval for change or variation orders:
 - i. Change Orders resulting from design errors, omissions or nonconformance with the performance specifications and parameters and the contract documents by the contractor shall be implemented by the contractor at no additional cost to the procuring entity.
 - ii. Provided that the contractor suffers delay and/or incurs costs due to changes or errors in the procuring entity's performance specifications and parameters, he shall be entitled to either one of the following:
 - a. an extension of time for any such delays under Section 10 of Annex "E"; or
 - b. payment for such costs as specified in the contract documents, provided, that the cumulative amount of the variation order does not exceed ten percent (10%) of the original contract price.
- 13.6. The contract documents shall include the manner and schedule of payment specifying the estimated contract amount and installments in which the contract price will be paid.
- 13.7. The contractor shall be entitled to advance payment subject to the provisions of Section 4 of Annex "E".
- 13.8. The procuring entity shall define the quality control procedures for the design and construction in accordance with agency guidelines and shall issue the proper certificates of acceptance for sections of the works or the whole of the works as provided for in the contract documents.
- 13.9. The contractor shall provide all necessary equipment, personnel, instruments, documents and others to carry out specified tests.
- 13.10. All design and build projects shall have a minimum Defects Liability Period of one (1) year after contract completion or as provided for in the contract documents. This is without prejudice, however, to the liabilities imposed upon the engineer/architect who drew up the plans and specification for a building sanctioned under Article 1723 of the New Civil Code of the Philippines.
- 13.11. The contractor shall be held liable for design and structural defects and/or failure of the completed project within the warranty periods specified in Section 62.2.3.2 of the IRR
- The amount to be withheld for late submission of an updated Program of Work is one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay

The period between Program of Work updates is thirty (30) calendar days.

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13	The amount of the advance payment shall not exceed 15% of the total contract price and schedule of payment to be deducted in a pro-rated basis every progress billing.				
14	Progress payments shall be made in five (5) billings according to actual work accomplishment/completion of the infrastructure project or a specific portion thereof and shall be made upon written request by the Contractor, using the following schedule:				
	Billing No.	Payment	Work Accomplishment		
	1 st Billing	30% of Total Contract Cost	100% completion of the Pre- Construction Stage and 25% Completion of Construction Stage		
	2 nd Billing	20% of Total Contract Cost	50% Completion of Construction Stage		
	3 rd Billing	25% of Total Contract Cost	75% Completion of Construction Stage		
	4 th Billing	20% of Total Contract Cost	100% Completion of Construction Stage		
	5 th Billing	5% of Total Contract Cost	100% Completion of Post- Construction Stage		
	The following items are to be deducted from the progress billing as prescribed in Annex E of the Revised IRR of RA 9184:				
	a. Cumulative value of the work previously certified and paid for.				
	b. Portion of the a	dvance payments to be reco	ouped for the month.		
	c. 10% Retention Money in accordance with the condition of contract to				
15.1	cover third party liabilities and uncorrected discovered defects in the works. The date by which operating and maintenance manuals are required is before the commencement of the Commissioning Period.				
	The date by which "as built" drawings are required is 15 days after completion of Construction Stage. Should there be corrections in the "as built" plans, the contractor is given ten (10) days to resubmit the corrected plans. Failure to resubmit within the deadline shall incur a P1,000.00 per day of delay .				
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is P1,000.00 per day of delay				



Section VI. Specifications



TERMS OF REFERENCE & TECHNICAL SPECIFICATIONS

1. BACKGROUND

A Sewage Treatment Plant (STP) is a facility in which a combination of various processes (e.g. physical, chemical and biological) are used to treat waste water and remove pollutants following prescribed standards before discharging into a city sewerage system or body of water to avoid pollution and contamination of water.

Currently, the existing septic tank of the SSS Main Building processes wastewater produced in the compound before discharging into Manila Water's sewerage system and subsequently draining into water bodies (e.g. Laguna Lake). It was constructed in the 1960s and has undergone upgrading works in the 1990s. However, the effluent being discharged from this facility does not comply with the existing environmental standards prescribed by law.

With the passage of Republic Act No. 9275 (Philippine Clean Water Act) in 2004, parameters for Water Quality Guidelines and General Effluent Standards (GES) were implemented. In 2016, thru Department of Environment and Natural Resources (DENR) Administration Order (DAO) No. 2016-08, more stringent parameters regarding water quality and effluent standards were adopted. The Laguna Lake Development Authority (LLDA), which is the governing body with the power to control and abate pollution within the region, has adopted these standards for the issuance of necessary discharge permits and clearances, which the SSS is required to secure.

The DAO has a provision for a 5-year grace period to be able to fully comply with the GES. This will expire in 2021, after which fines and penalties will be applied to those found in violation or failed to comply with the said standards.

In line with this, the Social Security System (SSS) intends to engage an Engineering and Construction Firm which specializes in the design and construction of sewage, water, and waste water treatment plants, with at least five (5) years of experience in the field of sanitary and environmental engineering particularly the design of sewage treatment plants, rain water collection and recycling facility, including building water and sewerage systems, for the design of the STP of the SSS Main Office.

2. GENERAL INFORMATION OF THE SSS MAIN OFFICE

Name of Project :	Project : Construction of Sewage Treatment Plant (Design and Build)				
Location :	SSS Main Office, East Ave	enue, Diliman, Quezon C	ity		
	Area: +/- 100 sq.m. (5.50m	Area: +/- 100 sq.m. (5.50m x 18.20m)			
	(Refer to Annex A of Section VII. Drawings – Site Development Plan)				
Buildings :	Name	Description	Total Floor Area (sq.m.)		
	Main Building	12 storey with basement & roof deck	33,014.73		
	Annex Building	2 storey	1,289.88		
	Power House	1 storey	596.00		
	Security Agency Office	1 storey	43.24		
	Carpentry/Repair Shop	1 storey	144.83		
Total Lot Area :	19,999.50 sq.m.				



3. PROJECT OBJECTIVES

The general objectives of the project are:

- 3.1 To obtain a detailed design and to construct an STP including all its appurtenant facilities considering all the requirements of SSS in terms of site investigation, data gathering, design and engineering, construction, testing and commissioning, project documentation, turnover, technical and operational support, and functional guarantee and warranty.
- 3.2 To be able to construct the most suitable and economical design of the STP appropriate to the area that will perform adequate treatment of waste water that will pass all applicable environmental laws and standards.
- 3.3 To be able provide technical and operational support, and appropriate training of personnel to SSS.

4. PROCUREMENT OF SERVICES

The SSS will engage an Engineering and Construction Firm which specializes in the design and construction of sewage, water, and wastewater treatment plants, with at least five (5) years of experience in the field of sanitary and environmental engineering particularly the design of sewage treatment plants, rainwater collection and recycling facility, including building water and sewerage systems. The Design and Construction Firm will provide a core team of experienced and competent technical personnel. The firm shall be responsible in all its recommendations, designs, specifications, and other documents related to the scope of services of the project.

Hiring of the Engineering and Construction Firm shall be made through public bidding following the IRR of RA 9184.

5. GENERAL SCOPE OF SERVICES

The scope of works is the design and construction of the sewage treatment plant, as follows:

- 5.1 Preparation of detailed design of the sewage treatment plant (STP), which should meet all relevant Philippine Standards and international safety standards including but not limited to the Effluent Standards of DENR, Occupational Safety and Health Code, National Structural Code of the Philippines, Philippine Electrical Code, National Plumbing Code, Construction Safety and Health Program (*Please refer to Annex 1*), etc.
- 5.2 Secure necessary permits for the build, operation and maintenance of the STP.
- 5.3 Site preparation including the necessary flood protection works.
- 5.4 Construction of the STP and appurtenant facilities (e.g. pumping stations and sludge collector) to perform an adequate treatment of waste waters.
- 5.5 No less than eight months prior to the Contract Completion Date, the Contractor shall prepare and deliver to the Employer for its approval a training plan for the operation and maintenance.
- 5.6 Testing and commissioning of the STP and all its appurtenant facilities, including training and monitoring of the proposed plant's personnel, and acquisition of discharge permit.

6. PROJECT SPECIFICATIONS

The STP system considered for this project is the Dynamic Sequential Batch Reactor (SBR) or provide/present technologies most appropriate for the local needs, institutional capacities, environment, sustainability, operation and maintenance capacities, and process technology which is designed as a centralized STP capable to handle the wastewater generated in the SSS Main Office Building daily.

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6.1 General Requirements:

- 6.1.1 The Engineering and Construction Firm shall be wholly responsible for all aspects of the design and construction of the STP including process, mechanical, electrical, control and automation, site development and civil works, architectural and building services.
- 6.1.2 The processes and installation design proposed and consequently constructed by the Engineering and Construction Firm shall be compatible and integrated with existing facilities, and with provision for an installation of a facility for water recycling and reuse to be combined with the system should the SSS decides to in the future.
- 6.1.3 The STP shall be designed and constructed to be economical to operate and maintain, and the layout shall facilitate safe and easy access for operation and maintenance purposes.
- 6.1.4 The STP shall be designed and constructed such that in the event of failure, or an emergency, the STP will revert to standby units or fail into a safe status, as appropriate, to allow the STP to operate continuously.
- 6.1.5 The STP shall be designed and constructed to provide effluent complying with DENR DAO 2016-08.

6.2 Quality

All facilities under this section shall be (1) of the design and manufacture that have been used in similar applications; and (2) demonstrated to the satisfaction of the Owner that the quality is equal to or better than the equipment specified herein. The equipment is guaranteed against defects in workmanship, materials and operation for a period of not less than five (5) years.

6.3 Process Guarantee

The Contractor guarantees that the process and output pass and compliant with the Department of Environment and Natural Resources (DENR) effluent standards, DENR Administrative Order (DAO) 2016-08 and any other existing environmental laws and regulations, for the plant's lifetime.

The Contractor shall also comply with the DENR standards, energy efficiency, minimal sludge volume, minimal chemical usage, and the plant should be future proof.

6.4 Design Criteria

The following are the minimum criteria for the design of the STP:

6.4.1 Flow Rates

Item	Description	Unit	Value			
FLOW	FLOWRATES					
1	Average Design Flow Rate	cu.m./day	410			
2	Peak Design Flow Rate	cu.m./day	615			
3	Peak Factor Considered		1.5			
4	Type of Waste Water		Domestic			
5	Temperature	deg. C	28-32			

6.4.2 Influent Wastewater Characteristics

The proposed STP shall be designed to handle wastewater having the following characteristics:

Item	Description	Unit	Value
INFLUENT WASTE WATER CHARACTERISTICS			
1	Biochemical Oxygen Demand, BOD	mg/L	350
2	Chemical Oxygen Demand, COD	mg/L	700

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Item	Description	Unit	Value	
INFLU	INFLUENT WASTE WATER CHARACTERISTICS			
3	Total Suspended Solids (TSS)	mg/L	3150	
4	Surfactants (MBAS)	mg/L	<50	
5	Oil and Grease	mg/L	100-200	
6	Total Coliform	MPN /100mL	10^7 to 10^10	
7	pH (range)		6.5-8.5	
8	Ammonia (as NH3-N)	mg/L	30	
9	PO4-P concentration	mg/L	14	

Aside from the characteristics listed above, the STP shall also be able to handle other parameters not listed above but considered intrinsic in domestic flow (e.g. acids, cleaning agents, solvents, etc.)

6.4.3 Project Targeted Effluent Characteristics

The quality of sewage to be treated in the central treatment plant, and where effluent is to be discharged to the nearby water body, shall have characteristics not to exceed the parameters specified below. Other parameters not listed below shall pass DENR Standards for Class "C" Inland Water as stipulated in DAO 2016-08.

Item	Description	Unit	Value	
INFLU	INFLUENT WASTE WATER CHARACTERISTICS			
1	pH (range)		6.0-9.5	
2	Color	PCU	<150	
3	Biochemical Oxygen Demand, BOD	mg/L	<50	
4	Chemical Oxygen Demand, COD	mg/L	<100	
5	Total Suspended Solids	mg/L	<100	
6	Surfactants (MBAS)	mg/L	<15	
7	Settleable Solids (1 hour)	mg/L	<0.5	
8	Oil and Grease	mg/L	<5.0	
9	Ammonia	mg/L	0.5	
10	Nitrate	mg/L	14	
11	Phosphate	mg/L	1	
12	Total Coliform	MPN /100mL	10,000	
13	Fecal Coliform	MPN /100mL	400	

6.4.4 Bar Screen

Item	Description	Unit	Value
BAR SCREEN			
1	Number		One (1)
2	Туре	Inclined Bar Screen	
3	Function	Manual	
4	Construction Material	SS 304	
5	Capacity	m3/hr	25.810
6	Bar Spacing	mm	5.00

6.4.5 Collecting / Equalization Tank

Item	Description	Unit	Value
COLLECTING TANK			
1	Number of Tank		One (1)
2	Dimensions, (Effective Volume)	m3	34.17
3	Effective Depth	m	6.00
4	Hydraulic Retention Time	hours	2.00
5	Influent Transfer Pumps	number	2 (1D, 1S)
6	Capacity	m3/min.	0.43
7	Total Dynamic Head	m	8.00
8	Туре	Non-clog submersible pump	
9	Total Air Requirement for Mixing	m3/min	0.75
10	Discharge Pressure	mbar	700.00
11	Aeration Mechanism	Air Diffuser System	
12	Туре	SS304 Wide Band, Coarse	
		Bubble Diffuser	

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13 No. of Diffusers 6.4.6 Phosphorous Removal 3.00 pieces

Item	Description	Unit	Value				
Phos	Phosphorous Removal						
1	ACH Dosage Rate	mg/L 71.00					
2	ACH @ 100% purity	kg/day	29.11				
3	Type of Feeding	Liqui	d				
4	Chemical Solution Tank	Number	One (1)				
5	Capacity	li 110.00					
6	Material	MDPE					
7	Chemical Solution Tank Air Mixing	number	One (1)				
8	Air Requirement	m3/min	0.28				
9	Air Diffuser	EPDM Sna	ар Сар				
10	Chemical Dosing Pump	number	One (1)				
11	Capacity, each	L/hr.	35.00				
12	Discharge Pressure (abs.)	kg/cm2	10.20				
13	Power Input	kW	0.025				

6.4.7 SBR Aeration Basin

Item	Description	Unit	Value	
SBR	Aeration Basin			
1	Number of Tank	unit	One (1)	
2	Type of Treatment Process	Dynamic Seque		
		Reactor wit		
3	Dynamic SBR Cycle	Normal Operation		
4	Number of Cycle	number	4.00	
5	Aeration	hour	2.75	
6	Mixing	hour	0.75	
7	Settle	hour	1.00	
8	Decant	hour	1.50	
9	Number of Hours per Cycle	hour	6.00	
10	Dynamic SBR Cycle	Storm Op	eration	
11	Number of Cycle	number	4.00	
12	Aeration	hour	2.20	
13	Mixing	hour	0.60	
14	Settle	hour	0.75	
15	Decant	hour	1.25	
16	Number of Hours per Cycle	hour	4.80	
17	Food to Microorganism Ratio	kgBOD/kgMLS	0.70	
	•	S - day		
18	Mass of Biomass for BOD Removal @ ADWF/basin	BOD Removal @ kg/day		
19	Mass of Biomass for Nitrification @ ADWF/basin	kg/day	735.87	
20	Max. Volume Above Bottom Water Level @ PDWF	m3/basin	121.29	
21	Basin Working Volume	m3	285.29	
22	Hydraulic Retention Time at ADWF	day	0.71	
23	Mixed Liquor Suspended Solid @ BWL (MLSS)	mg/L	5,078.35	
24	Total Waste Sludges Produced	kg/day	120.31	
25	Volume of Sludge produced (approx 0.85% of solids)	m3/day	11.37	
26	Mean Cell Residence Time (MCRT)	day	11.41	
27	Dimensions each tank / basin (Basin Area)	m2	48.69	
28	Length	m	9.87	
29	Width	m	4.93	
30	Top Water Level	m	6.00	
31	Bottom Water Level	m	3.84	
32	Aeration Mechanism	Air Diffusion	System	
33	Kilogram of Oxygen to Kg. of BOD Ratio	kg O2 / kg BOD – d	1.20	

Item	Description	Unit	Value	
SBR	Aeration Basin			
34	Kilogram of Oxygen to Kg. of Nitrogen	kg O2 / kg ∆N	4.60	
	Ratio			
35	Total Air Requirement per basin	m3/min.	8.40	
36	Air Blowers	number	2 (1D, 1S)	
37	Туре	PD Blo	wer	
38	Capacity of Air Blower	m3/min.	9.4	
39	Model	BE12	5H	
40	Discharge Pressure (abs.)	mbar	700.00	
41	Power Input	kW	18.5	
42	Air Diffusers	EPDM Fine Bubble		
43	Capacity of each diffuser	m3/min	0.13	
44	Surface Oxygen Transfer Efficiency	percent	24%	
45	Number of Diffuser/basin	pieces	66.00	
46	Total No. of Diffuser	pieces	66.00	
47	Waste Sludge Pump/basin	number	One (1)	
48	Model	CRS501-F	P50RL	
49	Capacity	m3/min	0.22	
50	Total Dynamic Head	M	8.00	
51	Power Input	kW	0.75	
52	Decant Mechanisms/basin	number	One (1)	
53	Туре	Floating De	ecanter	
54	Material	SS30)4	
55	Decant Rate @ ADWF	m3/min.	1.35	
56	Decant Rate @ PDDR	m3/min.	1.62	
57	Decant Draw Down	m	2.16	

6.4.8 Chlorine Contact Tank

Item	Description	Unit	Value				
Chlor	Chlorine Contact Tank						
1	Number		One (1)				
2	Dimensions (Volume)	m3	44.55				
3	Top Water Level	m	3.54				
4	Hydraulic Retention Time @ ADWF	minutes	30.00				
5	Chlorine Dosage Rate	mg/L	5.00				
6	Sodium Hypochlorite @ 7% purity	kg/day	29.29				
7	Type of Feeding	Liq	uid				
8	Chemical Solution Tank	number	One (1)				
9	Capacity	li	110.00				
10	Material	MD	PE				
11	Chemical Solution Tank Air Mixing	number	One (1)				
12	Air Requirement	m3/min.	0.28				
13	Air Diffuser	EPDMS	nap Cap				
14	Chemical Dosing Pump	number	One (1)				
15	Capacity, each	L/hr.	5.81				
16	Discharge Pressure (abs.)	kg/cm2	2.04				
17	Power Input	kW	0.016				

6.4.9 Aerobic Sludge Digester

Item	Description	Unit	Value			
Aerob	Aerobic Sludge Digester					
1	Number of Tanks		One (1)			
2	Solid Loading @ ADWF	kg/day	120.31			
3	Sustained Flowrates	m3/day	11.37			
4	Dimension of tank	m3	79.59			
5	Top Water Level (TWL)	m	6.00			
6	Hydraulic Retention Time	Day	7.00			
7	Aeration Mechanisms	Air Diffusion	on System			
8	Air Blowers	number	1			
9	Туре	PD Blower				
10	Total Air Requirement for Mixing	m3/min	3.42			

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Item	Description	Unit	Value					
Aerob	Aerobic Sludge Digester							
11	Discharge Pressure	mbar	700.00					
12	Air Diffusers (type)	SS304 Wide Band,						
		Coarse Bubble Diffuser						
13	Quantity of diffusers	pcs.	7.00					
14	Capacity of each diffusers	m3/min.	0.342					

6.5 Sewage Treatment Plant (STP) Unit Process Description

The succeeding discussion shall be the **minimum plant requirement** which shall be the basis for evaluation and acceptance of work and supply of materials and equipment. The construction of STP shall comply with the requirements of the DENR, Laguna Lake Development Authority (LLDA), and other concerned agencies.

The design should also consider the elevation and sewer line of the existing buildings with the SSS Main Building compound.

The proposed treatment system shall be designed and constructed to comply with Class C Waters of DENR Administrative Order 2016-08 (Water Quality Guidelines) and General Effluent Standards (GES). The scope of the STP shall start with the incoming raw sewage at the receiving chamber of the pre-treatment area and will undergo the following stages of treatment process:

- a. Pre-treatment by Screening
- b. Phosphorous Removal (Chemical Precipitation by Addition of ACH)
- c. Dynamic SBR with Biological Nutrient Removal (Biological Treatment)
- d. Disinfection by Liquid Chlorine
- e. Aerobic Sludge Digestion

6.5.1 Preliminary Treatment Section

The objective of the preliminary treatment is to remove the coarse solids, grit, grease and other large materials often found in raw wastewater. The removal of these materials is necessary to enhance the operation and maintenance of the subsequent treatment units.

Screening

Raw wastewater will be received in the equalization/collecting tank of the proposed Sewage Treatment Plant. Motorized bar screen (SS304) will be provided prior to equalization tank for TSS reduction. Screening of raw wastewater is done to prevent easy clogging of solids larger than 5mm such as rags, paper, plastic, metals and the like that may damage the pumps, equipment, pipes, valves, etc. The screened solids will be located in a covered wheeled container bin prior to packaging and disposal to a sanitary facility.

The screened wastewater will then flow to the equalization tank. The equalization tank is provided to overcome the operational problems and flow rate variations and to provide a relatively constant flow rate and contaminant loading prior to the biological treatment system. The equalization tank is properly sized to handle the fluctuation in both hydraulic and organic loadings. The tank is equipped with an air diffusing mechanism for a more uniform sewage flow to the next treatment. Two (2) submersible non-clog pumps will be provided to pump the wastewater to the biological system. These pumps will be operating at a 1-duty-1-standy basis (1D, 1S).

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6.5.2 Phosphorus Removal

Total phosphorus considered in the influent wastewater has a concentration of 15ppm. Residual phosphorus after biological treatment would be treated using aluminum chlorohydrate (ACH) which is the most concentrated form of aluminum thus offering substantial advantages which decreases chemical dosage; hence, lowering chemical consumption cost. In order to reduce the phosphate to 1ppm (as per DAO 2016-08), a dosage of around 77ppm ACH shall be consumed using diaphragm dosing pump.

6.5.3 Secondary Treatment Section

The objective of the secondary treatment is the further treatment of the effluent from primary treatment to remove the residual organics and suspended solids. In most cases, it involves the removal of biodegradable dissolved matter and colloidal organic matter through an aerobic biological treatment process.

The pre-treated wastewater will undergo a biological treatment process called the **DYNAMIC SEQUENCING BATCH REACTOR (SBR)**.

The Dynamic SBR incorporates two hydraulic cycle control features that allow the system to be operated in two basic process modes: nitrification and denitrification. The cycles are staggered, which means that a single blower can provide air flow to two basins while ensuring that only one basin is aerated at any time. With the additional biological nutrient removal, the cycle time is extended to provide enough time for anoxic periods to initiate denitrification and Bio P removal. The continuous feed provides a sufficient amount of BOD at all times to ensure good denitrification rates at all points in the cycle and to optimize nitrogen removal.

One (1) SBR basin is to be constructed for this treatment. During normal conditions, the operation will run at four (4) SBR cycles per day with 6 hours to complete -2.75 hours for filling and aeration, 0.75 hours for anoxic mixing, 1 hour for settling, and 1.5 hours for decanting. During storm conditions, the operation will run at four (4) SBR cycles per day with 4.8 hours to complete -2.2 hours for filling and aeration, 0.6 hours for anoxic mixing, 0.75 hours for settling, and 1.25 hours for decanting.

The Dynamic SBR System is controlled by a programmable logic controller (PLC) with the basic cycle of operation. The influent is continuously being received all throughout the phases of the cycle, allowing the process to be controlled on a time basis rather than flow. The SBR Basin is divided into two zones, the pre-react zone and the main react zone. A non-hydrostatic baffle wall or pre-react wall, with openings at the bottom is constructed to divide the basin into two zones. The waste water will be continuously fed at an equal rate into the pre-aeration chambers of the SBR basin and will be directed downwards through an engineered orifice opening at the bottom of the baffle wall, then into the main aeration. The pre-react wall controls the incoming flow, prevents short-circuiting, and provides the pre-treatment of the waste water before it enters the main react zone. The pre-react wall also prevents interruption during settle, and decant phases; or at any time during the operating cycle.

Three layers are formed in each basin by the end of the settle phase and at the beginning of the decant phase. A sludge blanket forms as the mixed liquor suspended solid (MLSS) settle at the bottom of the basin. A buffer zone of one meter forms between the sludge blanket and the treated water that will exit the SBR basin during the decant phase. The top layer of clear treated liquid is drawn down after the MLSS settles. The advantage of the buffer zone is to provide an improved final effluent solids performance even at high flow operation.

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The main react and pre-react zone has a complete air distribution system using fine bubble diffusers. Air is supplied from the aeration blowers through the diffusers installed equidistantly at the bottom of the tank. The blower system is designed to provide sufficient airflow to meet the system process requirements. Dissolved oxygen (DO) is added to the aeration basin to enhance the oxidation process by providing oxygen to aerobic microorganisms that can successfully turn organic wastes into organic byproducts. The blower is allowed to operate during the aeration phase to mix and oxygenate the wastewater to produce biomass or sludge. During this phase, microorganisms consume the food (which reduces the biological oxygen demand), nutrients (orthophosphates) and nitrogen (converts ammonia to nitrates and nitrites during nitrification).

After the aeration phase, the anoxic mixing phase begins where there is little to no oxygen present in the main react chamber. Due to this condition, the bacteria lack the oxygen they need for survival. Hence, they will consume the nitrates (NO3) and nitrites (NO2) in the wastewater which contain combined oxygen. This process is called denitrification where nitrates and nitrites are converted to nitrogen and oxygen gas,

After these phases, biomass is formed and allowed to settle at the bottom of the basin leaving a layer of clear water on top on the programmed period of time.

The uppermost clear water is discharged from the top of the basin while the basin is continuously receiving the influent using a rugged, corrosion resistant, stainless steel, floating type decanter located at the basin center end – opposite the pre-react zone.

The decanter is parked on the top water level (TWL) during the aeration and settling phases of the cycle. A scum/sludge exclusion is installed to eliminate any possibilities of solids/biomass carryover during these periods, and to allow an easy access and service without the need to enter the basin. The floating decanted is always under pressure during both aeration and settling phases, as well as 3—5 minutes before decanting to assure that no solids will carryover with the treated water. After the five (5) minutes time, the decanter motorized valve opens to discharge the effluent to the chlorine contact tank; while the air solenoid valve from the air flush line will close.

Excess sludge will be removed using a non-clog submersible pump during the decant phase to maintain the appropriate MLSS (mg/L). The amount of biomass present in the system can be checked by obtaining the Sludge Volume Index (SVI) which is about 150mL/g at the settleability time of 30 minutes. To obtain the average MLSS and MCRT, the sludge waste pump run can be adjusted by changing the time of run at the Human Machine Interface (HMI) mounted on the control panel.

The treatment process will be controlled by a reliable programmable logic controller or PLC (optional) computer control that is programmed suitable to the requirements of the process. Since the plant will be automated, daily operation demand is minimal. Operators only need to perform routine house cleaning, maintain equipment, organize the sludge removal and manage the site facilities.

The whole system is operated and controlled on a time basis using a PLC. The control system consists of a control panel including a human machine interface (HMI), programmable logic controller, control switches, pilot lights and motor starters. The control panel is factory tested prior to shipment. During the start-up of the Dynamic SBR, an authorized field representative will check the operation, and make necessary field settings and program adjustments. After the system, has been placed into the service; there would only be minimal adjustments required by the operator such as the sludge pump start time and wasting time, and some blower adjustments. The SBR system shall have a sequence of operations for normal cycles at dry weather flow, and for storm cycles at weather flow.

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6.5.4 Disinfection

The treated water from the SBR will be disinfected at the Chlorine Contact Tank (CCT) that is provided with baffles to avoid the short-circuiting of flows, with a 30-minute retention time. The chlorine shall destroy the disease-causing microorganisms. The liquid chlorine (Sodium Hypochlorite, 7% conc.) with an appropriate dosage of 5 mg/L will be fed automatically and be mixed with the effluent of the SBR basins. Generally, a chlorine residual of 0.5 mg/L after contact time would indicate an effective disinfection. The chlorine dosing system shall be operated automatically by synchronizing it with the decanter operations. Disinfected water from the CCT will be discharged to the nearby creek or for plant reuse.

6.5.5 Aerobic Sludge Digestion

The excess sludge requires treatment to reduce its water and organic content, and to obtain a stabilized product suitable for end-use or final disposal.

Biological and chemical sludge generated from the SBR will go directly to the aerobic sludge digester (ASD). The sludge shall be stored and treated by means of a biological process called "Aerobic Digestion". Aerobic digestion is a method of sludge stabilization wherein the biodegradable organic matter decomposes (at about 50-80% reduction) into a relatively stable compound, and then oxidizes some of the cellular material into CO2, H2O, and NO3. This process is possible through the continuous mixing and oxygenation with the use of a blower and stainless steel bubble diffusers/submersible mixer.

The stabilized and digested sludge from the aerobic digester will be subject for hauling.

7. SCOPE OF WORKS AND SERVICES

7.1 Pre-Construction Stage

7.1.1 Pre-Design and Coordination

a. Attend pre-design meetings, discussions, planning and scheduling necessary to ascertain requirements for the development of the design and the proper implementation of the contract.

7.1.2 Detailed Engineering Design

- Conduct of pertinent site surveys and investigation at the STP location, including geotechnical study of the site for the structural design of the facility.
- b. Preparation of complete and detailed architectural and engineering design for the construction of the STP including its appurtenant facilities (e.g. control building).
- Preparation of detailed design for all plumbing, mechanical, hydraulic, electrical and instrumentation equipment and accessories for the STP system.
- d. Preparation of detailed design for the architectural, civil, electrical, fire protection, and all other engineering works, including site development, site utilities (e.g. water supply, sewerage and drainage systems), connection to public utilities, and all other design works necessary to construct an STP facility.
- e. Preparation of technical specifications, detailed cost estimates and quantity take off, design computations, and work schedule.
- f. Preparation of all other design works and services necessary to obtain a complete and efficiently functioning STP.

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- g. Presentation of the proposed design of the STP to the SSS management for approval.
- h. Secure necessary permits for the construction of the STP.

7.2 Construction Stage

- 7.2.1 Construction of all civil and architectural works which include intake structure, site layout, earthworks, flood protection works, concreting works and interface works with incoming site utilities, and structural components of the STP and its appurtenant facilities.
- 7.2.2 Construction of all plumbing, mechanical, electrical and instrumentation components, including lighting and equipment control system that may be required for the full operation of the STP and its appurtenant facilities.
- 7.2.3 Provide for the design, delivery, installation and commissioning of the STP facilities including required accessories, and appurtenant structures based on the given design criteria.
- 7.2.4 Provide for the site preparation works, plant excavation and backfill, ground improvement, concrete structure, equipment, machinery piping, valving, ventilation system, instrumentation, power supply, hook up, space for simple laboratory testing, comfort room with shower, wash basin, etc.
- 7.2.5 Fabrication, assembly and start-up of the equipment, machinery, piping, valving, instrumentation, etc.
- 7.2.6 Provide isolation valves at the inlet and exit channels of all tanks that may be suitable for the water treatment plant.
- 7.2.7 Provide suitable finishing for plant's blower/office/laboratory room, including doors, windows, lighting, ventilation, air conditioning, louvers, sinks, painting, etc.
- 7.2.8 Preparation and submission of arrangement drawings showing all plant and equipment, foundations, support and location of all fixations and anchoring devices.
- 7.2.9 Provision of a complete schedule listing of all tests, test procedures and timing of tests.

7.3 Post-Construction Stage - Testing and Commissioning

- 7.3.1 The Engineering and Construction Firm shall develop and submit to SSS the commissioning procedures necessary for the interfacing, testing and handing over of the STP prior to commissioning activities.
- 7.3.2 The Engineering and Construction Firm shall conduct the following tests that are required to demonstrate that the STP and equipment are reliable in their operation and that their output meet the stipulated criteria and performance standards:
 - a. Functional Tests to ensure installed equipment (such as pumps, valves, MCC, electrical, instrumentation, pipes, etc.) complies with specifications
 - Take Over Test (including water quality tests, reliability tests, chemical/ power/ noise assessments) – this shall be carried out to demonstrate satisfactory operation of the STP under manual and automatic control after successful Functional Tests
 - c. Performance Tests shall be carried out on the effluent quality for six
 (6) months to verify the STP's compliance with the requirements of DENR DAO 2016-08.
 - d. Other tests as may be required

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Samples for the above-mentioned tests shall be submitted to the LLDA, DENR, or appropriate accredited laboratories for testing and certification that the STP meets the stipulated criteria and performance standards. Reports/results of these tests shall be submitted to SSS.

- 7.3.3 Develop and submit necessary manuals for the efficient use, operations and maintenance of the STP which includes but is not limited to the following:
 - a. Operation and Maintenance Manual
 - b. Emergency Response Plan
 - c. Water Quality Testing Plan
 - d. Health and Safety Manual
 - e. Quality Assurance Manual
 - f. Other plans/manuals as may be required
- 7.3.4 Training of SSS personnel for the proper and efficient operation and maintenance of the STP
- 7.3.5 Acquisition of the Discharge Permit

8. DELIVERABLES/SUBMITTALS

The Engineering and Construction Firm shall submit the following minimum requirements to include, but shall not be limited to the following:

- 8.1 Pre-Construction Stage
 - 8.1.1 Pre-Design and Coordination
 - a. Minutes of Meetings, Activity Schedules, and other reports as needed.
 - 8.1.2 Detailed Engineering Design

Design plans in accordance with the degree of detail specified herein. Design and construction methods shall have emphasis on the methodology that best befit the cost and compressed duration of the project.

- a. STP Treatment Process Flow Sheet
- b. Complete architectural and engineering design plans in 10 sets of 20x30 inches blueprints
- c. Technical Specifications, Cost estimates, BOQ, Unit Price Analysis and other documents as may be required
- d. Construction Schedule and S-Curve
- e. Program Evaluation and Review Technique/Critical Path Method (PERT/CPM)
- f. Manpower schedule during construction, weekly or monthly, for skilled or non-skilled workers, including the Project Manager, Engineers, and Foreman with their bio-data
- g. Equipment utilization schedule, weekly or monthly
- h. Construction Safety and Health Program of the Contractor in accordance with DOLE Order No. 13
- Affidavit of Compliance to Specifications of Finishes and Materials, and Scope of Works.
- 8.2 Construction Stage
 - 8.2.1 Throughout this stage, the Design and Construction Firm shall submit to SSS the following documents:

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- a. Monthly/Weekly Progress report which shall include as a minimum the following:
 - i. Transmittal Sheet
 - ii. Management/Executive Report (narrative)
 - iii. Construction progress
 - iv. Forecast for the next weeks/month
 - v. Manpower (Management and Workforce)
 - vi. Equipment Schedule
 - vii. Areas of Concern
 - viii. Photographic report
- b. Shop drawings as may be necessary
- 8.3 Post-Construction Stage
 - 8.3.1 Testing and Commissioning
 - a. Testing and Commissioning Plan and Procedure
 - b. Reports/Result on the following tests carried out to ensure that the STP and equipment are reliable in their operation and that their output meet the stipulated criteria and performance standards:
 - i. Functional Tests
 - ii. Take Over Test (including water quality tests, reliability tests, chemical/ power/ noise assessments)
 - iii. Performance Tests
 - iv. Other tests as may be required
 - c. Operation and Maintenance Manual
 - d. Emergency Response Plan
 - e. Water Quality Testing Plan
 - f. Health and Safety Manual
 - g. Quality Assurance Manual
 - h. Personnel Training Manual
 - i. Discharge Permit

All document submittals shall be printed in 5 sets of bound A4 size bond paper. All applicable drawing plans shall be submitted in 20x30 inch or A3 size printouts.

9. STAFFING

9.1 The Contractor shall provide staff for the following positions and should have qualifications and experience consistent with the requirements specified below:

9.1.1 Pre-Construction Stage (Detailed Engineering Design)

Key Staff/Personnel		Qualifications and Experience required
	Project Manager/ Design Architect/Engineer	 with professional license (Architect/Engineer) With at least ten (10) years of experience in project management and design
2.	Structural Engineer	 With Civil Engineer license With at least five (5) years of experience in structural design with similar and comparable projects

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Ke	ey Staff/Personnel	Qualifications and Experience required
3.	Sanitary Engineer/Waste Water Specialist	 with Sanitary Engineer license With at least five (5) years of experience in the design of building water supply and distribution, plumbing, and waste water treatment & management Preferably knowledgeable in waste water management/treatment and emergent, alternative effluent collection and treatment systems
4.	Electrical Engineer	 with Professional Electrical Engineer license With at least three (3) years of experience in the design of lighting, and power distribution Preferably knowledgeable in emergent efficient lighting technologies and energy management
5.	Mechanical Engineer	 with Professional Mechanical Engineer license With at least three (3) years of experience in mechanical systems, HVAC and fire protection systems
6.	Electronics Engineer	 with Professional Electronics Engineer license With at least three (3) years of experience in the design of communication and building management systems (e.g. PABX, structured and local area network cabling, etc.)

9.1.2 Construction Stage

Key Staff/I	Personnel	Qualifications and Experience required
1. Project	Ŭ	 with professional license (Architect/Engineer) With at least ten (10) years of experience in project management and similar comparable projects
2. Project Archited	ct/Engineer	 with professional license (Architect/Engineer) With at least three (5) years of experience in similar and comparable projects Preferably knowledgeable in the application of rapid construction technologies
3. Material	9	 Must be duly accredited Materials Engineer With at least three (3) years of experience in similar and comparable projects Preferably knowledgeable in the application of rapid construction technologies
4. Electric	9	 with Professional Electrical Engineer license With at least three (3) years of experience in the design of lighting, and power distribution Preferably knowledgeable in emergent efficient lighting technologies and energy management
5. Electror Enginee		 with Professional Electronics Engineer license With at least three (3) years of experience in the installation of communication and building management systems (e.g. PABX, structured and local area network cabling, etc.) in similar comparable projects
6. Mechar Enginee		 with Professional Mechanical Engineer license With at least three (3) years of experience in similar and comparable projects in the installation of mechanical, HVAC and fire protection systems
7. Sanitary	/ Engineer	with Sanitary Engineer license



		With at least three (3) years of experience in similar and comparable projects in installation of building water supply and distribution, plumbing, and wastewater treatment & management
8.	Foreman	 With at least three (3) years of experience in similar and comparable projects
9.	Safety Officer	 Must be an accredited safety practitioner by the Department of Labor and Employment (DOLE) With at least one (1) year of experience as Safety Officer Must have undergone the prescribed 40-hour Construction Safety and Health (COSH) Training

9.1.3 Post - Construction Stage

Ke	y Staff/Personnel	Qualifications and Experience required
	Project Engineer- in-charge	 with professional license With at least three (3) years of experience in project management and similar comparable projects knowledgeable in waste water management/ treatment and emergent, alternative effluent collection and treatment systems
2.	Technicians (3)	With at least one (1) year experience in similar and comparable projects in installation of building water supply and distribution, plumbing, and waste water treatment & management

9.2 The Key Professionals listed above are required by SSS. The Consultant may, as needed and at its own expense, add additional professionals and/or support personnel for the optimal performance of all services, as stipulated in this Terms of Reference for the Project. The Curriculum Vitae and PRC license of each of the Professional staff shall be submitted together with the Contractor's proposal.

The Contractor shall provide technical and administrative support staff as required including such support as drivers, draftsmen, and secretarial/typist/encoder. The deployment of these personnel shall be necessary in accordance with the project requirements and with the prior approval of the SSS.

10. PROJECT DURATION AND SCHEDULE OF ACTIVITIES

- 10.1 Design and construction of all facilities shall be completed, delivered and passed the testing commissioning within a <u>maximum of ten (10) months</u> from receipt of the Notice to Proceed.
- 10.2 The ten (10) month project duration for the design and construction of STP shall consist of pre-construction, construction and post-construction stages, broken down as follows:

Stage and Particulars		Month								
		2	3	4	5	6	7	8	9	10
Pre-Construction Stage										
a. Pre-Design and Coordination										
b. Detailed Engineering Design										
2. Construction Stage										
a. Civil Works										
b. Mechanical Works										

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c. Electrical and Instrumentation Works					
3. Post-Construction Stage					
a. Testing and Commissioning					

- 10.3 The Pre-Construction Stage shall cover the following:
 - 10.3.1 Pre-Design and Coordination which shall cover meetings, discussions, planning and scheduling necessary for the development of the design and the proper implementation of the contract.
 - 10.3.2 Detailed Engineering Design to include activities in the preparation of detailed engineering design for the STP, processing of permits and licenses, and project mobilization.
- 10.4 The Construction Stage, which includes Civil Works, Mechanical, Electrical and Equipment installation shall be completed in six (6) months.
- 10.5 Testing and Commissioning of STP facilities shall be undertaken for two (2) months. This shall include preparation of as-built plans and other documentation.

11. APPROVED BUDGET FOR THE CONTRACT

11.1 The approved budget the contract is **Twenty-One Million Eight Hundred Seventy-Three Thousand Pesos (P21,873,000.00)**.

11.2 Mode of Payment:

11.2.1 Progress payments for each stage shall be based on the following schedule:

Billing No.	Payment	Work Accomplishment
1 st Billing	30% of Total Contract Cost	100% completion of the Pre-
		Construction Stage and 25%
		Completion of Construction Stage
2nd Billing	20% of Total Contract Cost	50% Completion of Construction
		Stage
3rd Billing	25% of Total Contract Cost	75% Completion of Construction
		Stage
4th Billing	20% of Total Contract Cost	100% Completion of Construction
		Stage
5th Billing	5% of Total Contract Cost	100% Completion of Post-
		Construction Stage

- 11.2.2 The following items are to be deducted from the progress billing as prescribed in Annex E of the Revised IRR of RA 9184:
 - a. Cumulative value of the work previously certified and paid for.
 - b. Portion of the advance payments to be recouped for the month.
 - c. 10% Retention Money in accordance with the condition of contract to cover third party liabilities and uncorrected discovered defects in the works.

12. RESPONSIBILITIES OF THE CONTRACTOR

- 12.1 The Contractor guarantees that design of the facilities, the process and output pass and is compliant with the Department of Environment and Natural Resources (DENR) effluent standards, DENR Administrative Order (DAO) 2016-08 and any other existing environmental laws and regulations. The Consultant shall also comply with the DENR standard, energy efficiency, Minimal Sludge Volume, Minimal Chemical Usage, Odor Control, etc.
- 12.2 The Contractor shall be solidarily liable with the Sub-contractor, for any and all damages caused as a result of acts or omissions of the latter that violate the

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- Contract of Documents and which were approved by the Consultant without the knowledge and consent of the SSS.
- 12.3 The Contractor shall pay the amount equivalent to One Tenth of One Percent (1/10 of 1%) of the total Service Fee as Liquidated Damages for each calendar day of delay or refusal to perform its obligation under the Contract Agreement in addition to the actual loss or damages which the SSS may prove. Such amount shall be deducted from any money due or which may become due to the Consultant or collected from the Performance Security posted by the Consultant, whichever is more convenient to the SSS
- 12.4 If the Contractor shall violate any of the Terms and Conditions of the Contract Agreement or shall neglect to perform any of their work, duties, functions, responsibilities or obligations stipulated therein, or for any other causes shall not carry the tasks in acceptable manner and by reason thereof, the SSS suffers damage and losses, the Consultant shall be assessed a penalty in the amount equivalent to Ten Percent (10%) of the total Service Fee in addition to the actual loss or damages as determined/proven by SSS.
- 12.5 The Contractor shall hold the SSS free from all claims, liabilities, losses and suits arising from error in design, error in plans and other errors relative to its services.

13. INSTITUTIONAL ARRANGEMENT

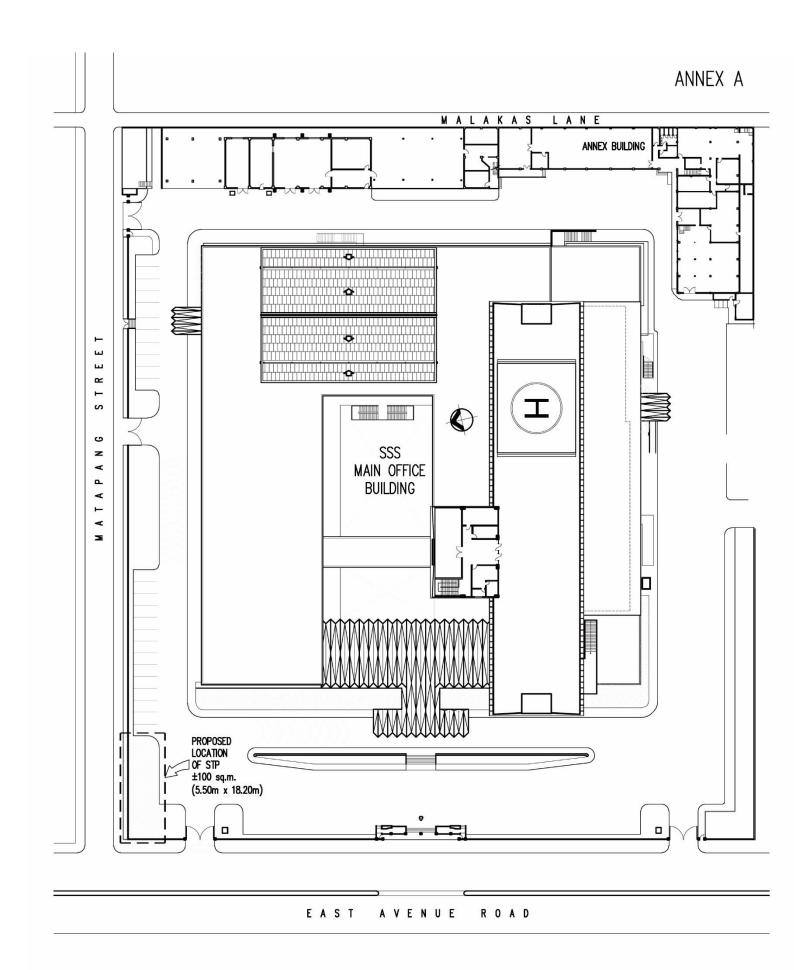
- 13.1 If required, the SSS shall assign a temporary workstation or working area for the Contractor relative to the rendering of services during the conduct of the design and build of sewage treatment plant (STP).
- 13.2 The SSS shall provide full information to the Contractor of its requirements for the Project
- 13.3 The SSS shall provide any available building plans to be utilized as reference for the conduct of the above undertaking.
- 13.4 The SSS through its Engineering and Facilities Management Department shall be responsible of the following:
 - 13.4.1 Directly monitor and supervise the conduct of the above undertaking
 - 13.4.2 Provide access, work permits, gate pass, authorization and clearance to the building work area in coordination with the Security Office.
- 13.5 All technical documents submitted by the Contractor shall be reviewed and approved by the SSS.
 - 13.5.1 Provide for the design, delivery, installation and commissioning of the treatment plant facilities including required accessories, and appurtenant structures based on the given design criteria.

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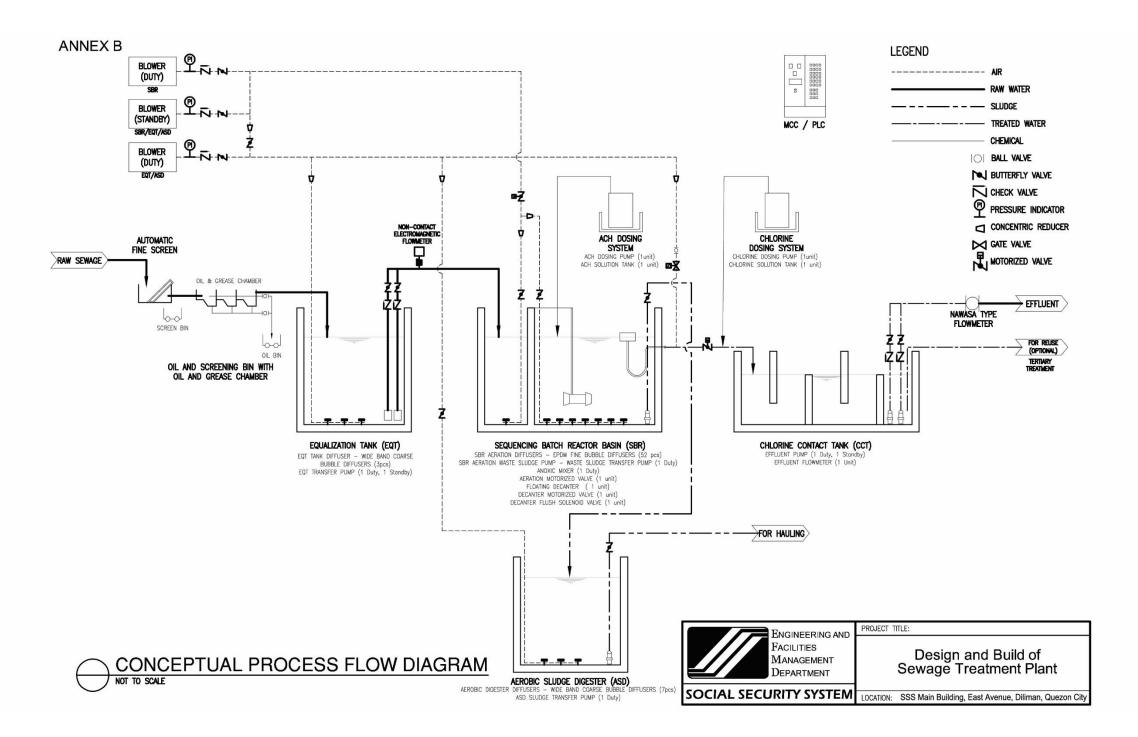
Section VII. Drawings

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

and and



SITE DEVELOPMENT PLAN





Section VIII. Bill of Quantities



Project: CONSTRUCTION OF SEWAGE TREATMENT PLANT (DESIGN AND BUILD)
FINANCIAL PROPOSAL FORM

SUMMARY for Bill of Quantity

ITEM	DESCRIPTION	AMOUNT
ı	Pre-Construction Stage	
1	Remuneration	-
2	Preparation, Printing and Blueprinting of Complete Plans and Required Documents	-
	Sub-Total (I)	-
II	Construction Stage	
1	General Requirements	-
2	Civil Works	-
3	Electrical and Instrumentation Works	-
4	Mechanical Works	-
5	Supply and Installation of Equipment	-
	Sub-Total (II)	-
Ш	Post-Construction Stage	
1	Remuneration	-
2	Preparation, Printing and Blueprinting of Complete As-Built Plans and Required Reports, Manuals, and other Documents:	-
3	Start-Up, Testing and Commissioning	-
4	Acquisition of Discharge Permit	-
	Sub-Total (III)	-
	TOTAL	-

Warranty:

- All supplied equipment are originally made and covered by five (5) years warranty against factory defect.
- After sales service on parts is available locally.
- Process guarantee for the plant's lifetime

Exclusions:

- Power and Water Supply during fabrication, testing, and installation

Delivery Schedule:

- -Detailed drawings and documents submitted within 30 days after issuance of Notice to Proceed
- As-Built Plans submitted within 15 days after completion of the construction stage
- Operating and Maintenance Manuals submitted before Commissioning Stage

NOTES:

- 1. Submit detailed cost estimates as supporting document of the costing/entries in this Financial Proposal Form.
- 2. Bid Amount for Construction Stage shall not exceed 95% of the ABC or Twenty Million Seven Hundred Seventy-Nine Thousand Three Hundred Fifty Pesos (₱20,779,350.00) and the TOTAL AMOUNT OF BID for the Pre-Construction, Construction, and Post-Construction stages SHALL NOT EXCEED the ABC of ₱21,873,000.00.

Submitted by:		
Name of Bidder		
Company Representative		
	(Signature over Printer Name)	
Company Address:	(-g)	
E-mail Address/Telephone No:		



I. PRE-CONSTRUCTION STAGE

ITEM	DESCRIPTION	QTY	UNIT OF MEASURE	UNIT COST	BID PRICE
1	Remuneration (1 month)			Salary/Month	
	Salary of Personnel for 1 Month of Pre-Construction Stage including				
	Overhead Costs and Other Charges				
1.a.	Project Manager / Design Architect / Engineer	1	personnel		
1.b.	Structural Engineer	1	personnel		
1.c.	Sanitary Engineer/Waste Water Specialist	1	personnel		
1.d.	Electrical Engineer	1	personnel		
1.e.	Mechanical Engineer	1	personnel		
1.f.	Electronics Engineer	1	personnel		
1.g.	Support Staff		personnel		
	Sub-Total (1)				
2	Preparation, Printing and Blueprinting of Complete Plans and	1	lot		
	Required Documents				
	- Architectural Plans				
	- Structural Plan				
	- Sanitary Plans				
	- Electrical Plans				
	- Mechanical Plans				
	- Electronics Plans				
	- Process Flow Sheet				
	- Technical Specifications, Calculations, Estimates, and other				
	documents				
				TOTAL (I. Pre-Construction Stage)	

- 1. Kindly fill out the highlighted in color blue portion of the Bill of Quantity.
- 2. Submit detailed cost estimates as supporting document of the costing/entries in this Financial Proposal Form.

ies in this Financial Proposal Form.		
Submitted by:		
Name of Bidder		
Company Representative		
	(Signature over Printer Name)	
Company Address:		
E-mail Address/Telephone No:		



II. CONSTRUCTION STAGE

ITEM	DESCRIPTION	QTY	UNIT OF MEASURE	UNIT COST (Materials, Labor, Equipment, Mobilization/ Demobilization, Mark-Up, VAT)	BID PRICE
1	General Requirement				
1.a.	Permits, Clearances and Licenses	1	lot		
1.b.	Bonds and Insurances	1	lot		
1.c.	Temporary Facilities	1	lot		
1.d.	Occupational Safety and Health Program Requirement	1	lot		
	Sub-Total (1)				
2	Civil Works				
	All civil works component of the STP including excavation, backfilling, dewatering, reinforced steel works, concrete works, structural works, painting, waterproofing, ground improvement, pipe-laying, construction of tanks and other structures, hauling and disposal of debris and waste materials, etc.	1	lot		
3	Electrical and Instrumentation Works				
	All electrical works component of the STP including: - Water Level Switches and Controllers - MCC Panel Components - Wirings and Roughing Installation - Installation and supply of PLC, Programming and Hardware - Conduit support, wire tray accessories, consumables, etc.	1	lot		

- 1. Kindly fill-out the highlighted in color blue portion of the Bill of Quantity
- 2. Submit detailed cost estimates as supporting document of the costing/entries in this Financial Proposal Form

(Signature over Printer Name)
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ITEM	DESCRIPTION	QTY	UNIT OF MEASURE	UNIT COST (Materials, Labor, Equipment, Mobilization/ Demobilization, Mark-Up, VAT)	BID PRICE
4	Mechanical Works				
	All Mechanical Works for the STP including mechanical piping, valves and fittings, supports, miscellaneous metals, painting, and consumables	1	lot		
5	Supply & Installation of Equipment				
5.a.	Automatic Fine Screen	1	unit		
5.b.	Oil and Screening Bin with Oil and Grease Chamber (1 unit Oil Bin, 1 unit Screening Bin, Oil and Grease Chamber)	1	set		
5.c.	EQT Tank Diffuser	3	units		
5.d.	EQT Transfer Pump	2	units		
5.e.	Influent Flowmeter	1	unit		
5.f.	ACH Dosing Pump	1	unit		
5.g.	ACH Solution Tank	1	unit		
5.h.	SBR Aeration Waste Sludge Pump	1	unit		
5.i.	SBR Aeration Diffusers	52	units		
5.j.	SBR Aeration Blower	1	unit		

Submitted by: Name of Bidder		
Company Representative		
	(Signature over Printer Name)	
Company Address:		
E-mail Address/Telephone No:		



^{1.} Kindly fill-out the highlighted in color blue portion of the Bill of Quantity

^{2.} Submit detailed cost estimates as supporting document of the costing/entries in this Financial Proposal Form

ITEM	DESCRIPTION	QТΥ	UNIT OF MEASURE	UNIT COST (Materials, Labor, Equipment, Mobilization/ Demobilization, Mark-Up, VAT)	BID PRICE
5.k.	Common Standby Air Blower	1	unit		
5.l.	Anoxic Mixer	1	unit		
5.m.	Aeration Motorized Valve	1	unit		
5.n.	Floating Decanter	1	unit		
5.0.	Decanter Motorized Valve	1	unit		
5.p.	Decanter Flush Solenoid Valve	1	unit		
5.q.	Chlorine Dosing Pump	1	unit		
5.r.	Chlorine Solution Tank	1	unit		
5.s.	Effluent Pump	2	unit		
5.t.	Effluent Flowmeter	1	unit		
5.u.	Aerobic Digester Diffusers	7	units		
5.v.	EQT/ASD Blower	1	unit		
5.w.	ASD Sludge Transfer Pump	1	unit		
	Sub-Total (5)				
	TOTAL (II. Construction Stage)				

- 1. Kindly fill-out the highlighted in color blue portion of the Bill of Quantity
- 2. Submit detailed cost estimates as supporting document of the costing/entries in this Financial Proposal Form
- 3. Bid Amount for Construction Stage shall not exceed 95% of the ABC or Twenty Million Seven Hundred Seventy-Nine Thousand Three Hundred Fifty Pesos (PhP20,779,350.00) and the TOTAL AMOUNT OF BID for the Pre-Construction, Construction and Post-Construction Stages SHALL NOT EXCEED the ABC of PhP21,873,000.00

Submitted by:		
Name of Bidder		
Company Representative		
		_
	(Signature over Printer Name)	
Company Address:		
E-mail Address/Telephone No:		



III. POST-CONSTRUCTION STAGE - TESTING COMMISSIONING STAGE

ITEM	DESCRIPTION	QTY	UNIT OFMEASURE	UNIT COST	BID PRICE
1	Remuneration (2 months) Salary of Personnel for 2 Months of Testing and Commissioning including Overhead Costs and Other Charges			Salary/2 Months	
1.a.	Project Engineer In Charge	1	personnel		
1.b.	Technicians	3	personnel		
	Sub-Total (1)				
2	Preparation, Printing and BluePrinting of Complete As-Built Plans and Required Reports, Manuals, and other Documents: - As-Built Plans - Operation and Maintenance Manual - Emergency Response Plan - Water Quality Testing Plan - Health and Safety Manual - Quality Assurance Manual - Others as needed	1	lot		
3	Start-Up, Testing and Commissioning - Includes start-up of operations, chemical consumption, training of operators, performance tests, laboratory testing fees, printing of results/reports, etc.	1	lot		
4	Acquisition of Discharge Permit	1	lot		
	TOTAL (III. Post-Construction Stage)				

- 1. Kindly fill-out the highlighted in color blue portion of the Bill of Quantity
- 2. Submit detailed cost estimates as supporting document of the costing/entries in this Financial Proposal Form
- 3. Bid Amount for Construction Stage shall not exceed 95% of the ABC or Twenty Million Seven Hundred Seventy-Nine Thousand Three Hundred Fifty Pesos (PhP20,779,350.00) and the TOTAL AMOUNT OF BID for the Pre-Construction, Construction and Post-Construction Stages SHALL NOT EXCEED the ABC of PhP21,873,000.00

Submitted by: Name of Bidder		
Company Representative		
	(Signature over Printer Name)	
Company Address:	,	
E-mail Address/Telephone No:		



Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Lego	al Do	cuments_
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	or Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent
	(c)	document; and Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
	(e)	and Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
Tech	hnical	Documents
	(f)	Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
	(g)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid completed in the last five (5) years prior to the submission of bids, except under conditions provided under the rules; and
	(h)	Philippine Contractors Accreditation Board (PCAB) License; or Special PCAB License in case of Joint Ventures;
	(i)	and registration for the type and cost of the contract to be bid; and Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	Original copy of Notarized Bid Securing Declaration; and Project Requirements, which shall include the following: a. Preliminary Conceptual Design Plan;
H		b. Design and Construction Methodology
H		c. Organizational chart for the contract to be bid;
		d. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
		e. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be;
		f. Value Engineering Analysis of Design and Construction Method; <u>and</u>
	(k)	Original duly signed Omnibus Sworn Statement (OSS); and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

	<u>Financial</u>	<u>Documents</u>
	\square (1)	The prospective bidder's audited financial statements, showing, among others,
		the prospective bidder's total and current assets and liabilities, stamped
		"received" by the BIR or its duly accredited and authorized institutions, for
		the preceding calendar year which should not be earlier than two (2) years
		from the date of bid submission; and
	(m)	The prospective bidder's computation of Net Financial Contracting Capacity
	(III)	(NFCC).
		Class "B" Documents
	(n)	If applicable, duly signed joint venture agreement (JVA) in accordance with
		RA No. 4566 and its IRR in case the joint venture is already in existence;
		<u>or</u>
		duly notarized statements from all the potential joint venture partners stating
		that they will enter into and abide by the provisions of the JVA in the instance
		that the bid is successful.
II.	FINANC	IAL COMPONENT ENVELOPE
	(o)	Original of duly signed and accomplished Financial Bid Form; and
	_	
	Other doc	rumentary requirements under RA No. 9184
	(p)	Original of duly signed Bid Prices in the Bill of Quantities; and
	(q)	Duly accomplished Detailed Estimates Form, including a summary sheet
	(q)	indicating the unit prices of construction materials, labor rates, and equipment
		rentals used in coming up with the Bid; and
	(r)	Cash Flow by Quarter.
	(r)	Cash Flow by Quarter.

IMPORTANT REMINDERS

- A) Each and every page of the Bid Forms, under Section VIII: Checklist of Technical and Financial Documents hereof, 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 bid.
- B) Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.
- C) Bid documents shall be compiled in a folder/binder with the Annexes properly labeled with tabs/separators.
- D) Bidders shall submit their bids through their duly authorized representative enclosed in separate sealed envelopes, which shall be submitted simultaneously:
 - a) The first three individually sealed envelopes shall contain the folder/binder of the Eligibility Requirements and Technical Component of the bid; prepared in three copies labeled as follows:
 - $Envelop\ (1):\ ORIGINAL-Eligibility\ Requirements\ and\ Technical\ Component$
 - Envelop (2): COPY1 Eligibility Requirements and Technical Component
 - Envelop (3): COPY2 Eligibility Requirements and Technical Component
 - b) The next three individually sealed envelopes shall contain the folder/binder of the Financial Component of the bid; prepared in three copies labeled as follows:
 - Envelop (4): ORIGINAL Financial Component
 - Envelop (5): COPY1 Financial Component
 - Envelop (6): COPY2 Financial Component

Supar

- c) Bidders shall enclose, seal and mark the following:
 - Envelop (7): Envelope (1) and Envelope (4) enclosed in one sealed envelope marked "ORIGINAL-BID"
 - Envelop (8): Envelope (2) and Envelope (5) enclosed in one sealed envelope marked "COPY1-BID"
 - Envelop (9): Envelope (3) and Envelope (6) enclosed in one sealed envelope marked "COPY2-BID"
- d) Envelopes (7) to (9) shall then be enclosed in a single sealed, signed final/outer envelope/package/box
- e) All envelopes (Envelopes (1) to (9) and the final/outer envelope/package/box) shall indicate the following:
 - addressed to the Procuring Entity's BAC
 - name and address of the Bidder in capital letters
 - name of the contract/project to be bid in capital letters
 - bear the specific identification/reference code of this bidding process
 - bear a warning "DO NOT OPEN BEFORE..." the date and time for the opening of bids

THE CHAIRPERSON	
BIDS AND AWARDS COMMITTEE	
2 ND FLOOR, SSS MAIN BUILDING	
EAST AVENUE, DILIMAN, QUEZON CITY	
NAME OF BIDDER:	
ADDRESS :	

- E) Bids submitted after the deadline shall only be marked for recording purpose, shall not be included in the opening of bids, and shall be returned to the bidder unopened.
- F) Bidders shall submit a copy of the Authority to Notarize issued by the Regional Trial Court to the Notarial Public.

FORMS

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Bid Form for the Procurement of Infrastructure Projects

BID FORM
(Project Name)
Date:
Project Identification No.:

To: SOCIAL SECURITY SYSTEM

East Avenue, Diliman, Quezon City

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: Construction of Sewage Treatment Plant (Design and Build) at SSS Main Building, East Avenue, Diliman, Quezon City;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: (insert information);
- d. The discounts offered and the methodology for their application are: (insert information);
- e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

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- k. We likewise certify/conform that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the Construction of Sewage Treatment Plant (Design and Build) at SSS Main Building, East Avenue, Diliman, Quezon City of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name:
Legal capacity:
Signature:
Duly authorized to sign the Bid for and behalf of:
Data

GPPB Resolution No. 16-2020, dated 16 September 2020

Bid Securing Declaration Form

REPUBLIC	OF	THE	PHILIPPINES)	CITY	OF
) S.S.		

BID SECURING DECLARATION

Project Identification No.: [Insert number]

To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order, and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- 3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER OR ITS AUTHORIZED

REPRESENTATIVE]

[Insert signatory's legal capacity] Affiant

[Jurat]

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

GPPB Resolution No. 16-2020, dated 16 September 2020

Contract Agreement Form for the

Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT made the	day of	20	between [name	and address of
PROCURING ENTITY] of the Philippines	(hereinafter	r called "the Entity	") and [name a	and address of
Contractor] (hereinafter called the "Contract	or'').			

WHEREAS, the Entity is desirous that the Contractor execute [name and identification number of contract] (hereinafter called "the Works") and the Entity has accepted the Bid for [contract price in words and figures in specified currency] by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, *viz.*:
 - a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any
 - b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
- d. Notice of Award of Contract; and the Bidder's conforme thereto; and

- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.
- 3. In consideration for the sum of [total contract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.
- 4. The [Name of the procuring entity] agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

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

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

for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

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

Omnibus Sworn Statement (Revised)

REPUBLIC OF THE PHILIPPINES)	
CITY/MUNICIPALITY OF) S.S.	

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. Select one, delete the other:

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. Select one, delete the other:

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity] as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached documents showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

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6. Select one, delete the rest:

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a) Carefully examining all of the Bidding Documents;
 - b) Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Contractor] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duly to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s.1930, as amended, or the Revised Penal Code.

IN WITNESS WHERE	OF, I have hereunto set m	y hand this	day of	_, 20 at	[‡]
Philippines.					

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

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

GPPB Resolution No. 16-2020, dated 16 September 2020

Supar

Performance Securing Declaration (Revised)

[As alternative performance security to be submitted by the winning bidder within ten (10) days from receipt of Notice of Award]

REPUBLIC OF THE PHILIPPINI	ES)	
CITY OF	_) S.S.	

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents] To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
- 2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
- 3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - i. Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this _____ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER OR ITS
AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]
Affiant

[Jurat]

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

STATEMENT OF ALL ITS ON-GOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YER STARTED

NAME OF CONTRACT	DATE OF CONTRACT	CONTRACT DURATION	CONTACT PERSON, CONTACT NO., ADDRESS, AND EMAIL ADDRESS	KINDS OF GOODS	AMOUNT OF CONTRACT	VALUE OF OUTSTANDING CONTRACT

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STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE PROJECT TO BE BID EQUIVALENT TO AT LEAST 50% OF THE ABC WITH ATTACHED SUPPORTING DOCUMENTS (i.e. P.O/CONTRACTS)

NAME OF CONTRACT	KINDS OF GOODS	AMOUNT OF CONTRACT	CONTACT PERSON, CONTACT NO., ADDRESS, AND EMAIL ADDRESS

	Fo	ormula in the Comp	outatio	on of NFCC				
NAME OF PROJECT								
		NAME OF CO	NADA I					
		NAME OF CO Current Liabilities) - cluding Awarded Con	- Value	e of All Outstanding	Works under On-			
YEAR	CU	URRENT ASSETS		CURRENT L	IABILITIES			
TOTAL								
Value of Outstan	nding Wor	ks under On-going C	ontrac	ts:				
CONTRA DESCRIP		TOTAL CONTRACT AMOUNT AT AWARD	P	RCENTAGE OF LANNED AND ACTUAL COMPLISHMENT	ESTIMATED COMPLETION TIME			
ТОТА	L							
Use additional sh	neet/s, if nec	essary						
Current As	ssets minu	Current Liabilities	– minus	Total Outstanding Works	g = NFCC			
		PNFC	C					
Prepared and Sub	omitted by:							
Signature over Pr	rinted Name							

(Name of Bank)

COMMITTED LINE OF CREDIT CERTIFICATE

Date:	
Social Security System (SSS) SSS Main Building, East Avenue Diliman, Quezon City	
CONTRACT PROJECT: COMPANY/FIRM: ADDRESS: BANK/FINANCING INSTITUTION: ADDRESS: AMOUNT:	
commits to provide the (Supplier/D Contract, a credit line in the amou	ove Bank/Financing Institution with business address indicated above, histributor/Manufacturer/Contractor), if awarded the above-mentioned and specified above which shall be exclusively used to finance the d contract subject to our terms, conditions and requirements.
(Supplier/Distributor/Manufacturer/	available within fifteen (15) calendar days after receipt by the Contractor) of the Notice of Award and such line of credit shall be cate of Acceptance by the Social Security System.
in connection with the bidding rec	ssued in favor of said (Supplier/Distributor/Manufacturer/Contractor) quirement of (Name of Procuring Entity) for the above-mentioned se statements issued by us make us liable for perjury.
The committed line of credi of Social Security System.	it cannot be terminated or cancelled without the prior written approval
Name and Signature of Authorized I	Financing Institution Office
Office Designation	
Concurred by:	
Name & Signature of (Supplier/Dist Official Designation	tributor/Manufacturer/Contractor) Authorized Representative
Affiant exhibited to me his/her com	BEFORE ME thisday ofatPhilippines, petent Evidence of Identity (as defines by the 2004 Rules on Notarial at, Philippines.
	NOTARY PUBLIC
Doc No. : Page No. : Book No. : Series of : (Note: The amount committed she	ould be machine validated in the Certificate itself)

FORM-10

TPF 1. PRELIMINARY CONCEPTUAL DESIGN PLAN

FORM-11

TPF 2. DESIGN AND CONSTRUCTION METHODOLOGY

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TPF 3. A. ORGANIZATIONAL CHART



TPF 3. B. LIST OF KEY PERSONNEL

1. PRE-CONSTRUCTION STAGE (DETAILED ENGINEERING DESIGN)

Key	Personnel Position	Name	License No.	Years of Relevant Experience
1	Project Manager/ Design Engineer or Architect			
2	Structural Engineer			
3	Sanitary Engineer / Waste Water Specialist			
4	Electrical Engineer			
5	Mechanical Engineer			
6	Electronics Engineer			

2. CONSTRUCTION STAGE

Key	Personnel Position	Name	License No.	Years of Relevant Experience
1	Project Manager			
2	Project Architect/ Engineer			
3	Materials Engineer			
4	Electrical Engineer			
5	Mechanical Engineer			
6	Electronics Engineer			
7	Sanitary Engineer			
8	Foreman			
9	Safety Officer			

3. POST-CONSTRUCTION STAGE (TESTING AND COMMISSIONING)

Key	Personnel Position	Name	License No.	Years of Relevant Experience
1	Project Engineer in Charge			
2	Technician 1			
3	Technician 2			
4	Technician 3			

TPF 3.C. Format of Curriculum Vitae (CV) for Proposed Key Personnel

Proposed Position:
Name of Firm:
Name of Staff:
Profession:
Date of Birth:
Years with Firm/Entity:Nationality:
Membership in Professional Societies:
Detailed Tasks Assigned:
Key Qualifications:
[Give an outline of staff member's experience and training most pertinent to tasks on project. Describe degree of responsibility held by staff member on relevant previous projects and give dates and locations. Use about half a page.]
Education:
[Summarize college/university and other specialized education of staff members, giving names of schools, dates attended, and degrees obtained. Use about one quarter of a page.]
Employment Record:
[Starting with present position, list in reverse order every employment held. List all positions held by staff members since graduation, giving dates, names of employing organizations, titles of positions held, and locations of projects. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages.]
Languages:
[For each language, indicate proficiency: excellent, good, fair, or poor in speaking, reading, and writing.]

$\boldsymbol{\alpha}$	4 • 6 •	4 •
l 'Ar	titic	ation:
cu	unic	auon.

I, the undersigned,	certify that	to the be	st of my	knowledge	and b	belief,	these	data	correctly
describe me, my qu	alifications,	and my e	xperienc	e.					

Commitment:

Series of ____.

I also commit to work for the Project in accordance with the time schedule as indicated in the contract once the firm is awarded the Project.

Date:
[Signature of staff member and authorized representative of the firm] Day/Month/Year
Full name of staff member:
Full name of authorized representative:
SUBSCRIBED AND SWORN to before me this day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no
Witness my hand and seal this day of [month] [year].
NAME OF NOTARY PUBLIC
Serial No. of Commission
Notary Public for until
Roll of Attorneys No
PTR No, [date issued], [place issued]
IBP No, [date issued], [place issued]
Doc. No
Page No
Book No

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TPF 3. D. LIST OF OTHER CONSTRUCTION PERSONNEL

	Name	Position
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

TPF 4. LIST OF CONTRACTOR'S EQUIPMENT

TPF 5. VALUE ENGINEERING ANALYSIS OF DESIGN AND CONSTRUCTION METHOD

ANNEXES

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CONSTRUCTION SAFETY AND HEALTH PROGRAM

Project : Construction of Sewage Treatment Plant (Design and Build)

Location : SSS Main Building, East Avenue, Diliman, Quezon City

Duration : 10 months

To ensure the security and safety of all personnel, properties and equipment affected by the above project, the following General Rules shall be strictly observed, implemented and adhered to:

GENERAL RULES

1. Work schedule shall be:

- a. For Construction Works outside the SSS buildings
 - 7:00 AM 5:00 AM (succeeding day) for all days of the week
- b. For Renovation Works inside the SSS buildings
 - 6:00 PM -- 5:00 AM (succeeding day) from Monday –Friday
 - 7:00 AM 5:00 AM (succeeding day) for Weekends and Holidays
- 2. All workers must wear their Security ID Pass and uniforms at all times while inside the SSS premises. Workers without ID Pass and not in uniform shall be barred from entering the worksite;
- 3. The following activities are prohibited in the SSS premises:
 - a. Bringing of dangerous drugs and alcoholic drinks;
 - b. Gambling;
 - c. Bringing of firearms and deadly weapons;
 - d. Bringing of any member of the family, friends, relatives or any person not connected with the project;
 - e. Smoking;
 - f. Cooking or water heating;
 - g. Drinking of purified water owned by the SSS employees
- 4. No worker is allowed to stay/sleep in the work site or roaming around the SSS premises during or after his duty. Worker shall be limited only to the confined or specific work site.
- 5. Wearing of shorts, slippers and sleeveless shirts/sandos is strictly not allowed;
- 6. All delivery of materials, tools and equipment to the jobsite shall be subjected to inspection and inventory by the security guard on duty.
- 7. Observe cleanliness and orderliness while at the jobsite. All garbage shall be collected daily and be placed at the garbage collection area.
- 8. All construction personnel are allowed to enter the SSS premises through any open entrance gate of their choice but they shall present their company-issued IDs to the guard-on-duty at the South Door for the issuance of Security ID Pass. The ID Pass must be surrendered to the guard-on-duty at the South Door before going home.
- 9. All construction personnel shall use only the Public Comfort Room (CR)
- 10. All workers shall submit themselves for frisking and bags for inspection by the guard on duty when entering or going out of the working area at all times. Any worker found with any materials/ items owned by the SSS or its employees in his possession shall be detained and referred to police authorities for appropriate action.

- 11. Strictly, no major welding works /fabrication shall be done inside the SSS premises, unless with prior written consent of the SSS Engineering & Facilities Management Department.
- 12. Workers are not allowed to bring-in their personal belongings not necessary in the performance of their job, personal bags or food containers shall be placed/secured in the SSS designated area.

13. The Contractor shall:

- a. Not hired workers of minor age;
- b. Submit two (2) copies of complete list of Workers with resume, latest ID picture to EFMD in requesting Work Permit for submission to Security Dept for monitoring of Security Office.
- c. Submit also a list of tools and equipment that will be used in the project;
- d. Provide fire extinguishers at the jobsite as required by the Building Code of the Philippines (if applicable)
- e. Install appropriate safety signage in conspicuous places at the jobsite /premises;
- f. Assume full responsibility on his account, the repair/ restoration and /or replacement of any property proven to have been damaged/ destroyed and/or lost at specific job-site. Once the fact and compelling circumstances had been duly investigated and proven by SSS Security Department that the incident was indeed committed by the Contractor's personnel, the same shall be at Contractor's liability.
- g. Advise the Engineering and Facilities Management Department whenever he intends to pull out from the jobsite any material, tool or equipment owned by the company;
- h. Provide on-site medical aid kit for his workers to be used in case of any injury during the work period;
- Designate its officer of the day or supervisor to receive the verbal request for inquiries and within 24 hours send its personnel being questioned for investigation at the SSS Security Department. Written reply on the request for inquiries and investigation is construed not mandatory;
- j. Refrain from ordering summary dismissal of any personnel involve in any form of irregularities committed and occurred on site without Security Department's Clearance especially those personnel involved in any irregularities or with pending case with the Security Dept.;
- k. Provide property custodian during the duration of the project. SSS shall not be held responsible for any damage loss or deterioration of any materials, tools, equipment, plans, etc, owned by the Contractor.
- I. Secure clearance from the Security Department prior to the turn-over of completed project / final billing for any security and property liability.
- m. Provide on-site water dispenser/container and drinking water for his workers.
- n. Provide Construction logbook to register all manpower and daily activities. The same shall be available at all times and will be surrendered to EFMD
- 14. SSS Reserves the right to reject and/ or prohibit the entrance of any Contractor's Employees with notorious and undesirable or lawless characters to SSS premises for safety purposes.

Other Conditions:

- 1. All installed equipment/facilities that will be affected by the renovation /improvement shall be turned-over to EFMD for recording / accounting purposes.
- 2. The following rules during execution of painting works should be observe by the Contractor:
 - a. Painting Works inside SSS buildings is not allowed during office hours / working days.

- b. Painting works inside SSS buildings shall be done only with the following schedules: Friday (after office hours / nights), Saturday (whole day), Sunday (up to 12nn) and Non-working / Special Holidays (up to 12nn).
- c. Contractor must provide electric fans for the proper ventilation / air circulation during painting works.
- d. Contractor must cover all aircon diffusers and provide protection of the FDAS sensors within the project site to prevent from unwarranted activation of alarm system.
- 3. No construction debris shall be retained/ stored outside the building premises:
 - a. Materials subject to be turn-over to SSS shall be temporarily placed in the designated holding area for accounting purposes.
 - b. Any disconnection / dismantling works shall be coordinated to EFMD Project-In-Charge at all times to avoid any untoward incident.
- 4. The contractor and all of its personnel shall strictly observe the project implementation guidelines as provided in the "Guidelines for the Implementation of Infrastructure and Non-Infrastructure Projects during the Covid-19 Health Crisis" (Please refer to Annex 2).

GUIDELINES FOR THE IMPLEMENTATION OF INFRASTRUCTURE AND NON-INFRASTRUCTURE PROJECTS DURING THE COVID-19 HEALTH CRISIS

Pursuant to Presidential Proclamation Nos. 922 and 929, Series of 2020 declaring a State of Public Health Emergency and Calamity throughout the Philippines due to COVID-19, and in view of the extended implementation of the General Community Quarantine, the following guidelines are hereby established for the implementation of all infrastructure and non-infrastructure projects of the Social Security System.

1. Prior to Deployment

- 1. Only the persons described below shall be allowed for inclusion in the workforce:
 - a. 21-59 years of age
 - b. Without pre-existing health conditions, such as, but not limited to, immunodeficiency, comorbidities, or other health risks
 - c. Not residing with any of the above
 - d. Did not come in contact with someone who tested positive with COVID -19

Contractor's technical personnel or Consultants who are 60 years of age or above may become part of the workforce of construction projects as may be allowed under the General Community Quarantine guidelines as provided in the Omnibus Guidelines on the Implementation of Community Quarantine in the Philippines, as approved on 15 May 2020.

- 2. The Head of SSS Implementing Unit (IU shall issue construction quarantine pass (QP) to individual qualified personnel of the contractor clearly stating the identification, designation, nature of work, project location and validity (see **Annex 3** *Construction Work Pass Format*).
- 3. Contractors will be responsible in providing welfare facilities and amenities for their personnel/workers such as off-site employee's quarter and field office. Disinfection foot bath, hand soap and had sanitizer or alcohol spray shall be made available at the employee's quarter and field office.
- 4. Contractors shall designate a qualified Safety Office who will be deployed at the project sire. He/she shall conduct proper dissemination of information to all personnel/workers regarding COVID-19 construction protocols on top of the construction safety practices.
- 5. Personal records of all personnel necessary for contact troing shall be submitted by the Contractor to the SSS IU, updating of which shall be done twice a month ar as the need rises (see **Annex 4** *Worker's Record Log Format*).
- 6. Contractors shall conduct an inventory of works for the construction sequencing to be followed and undertaken to uphold the required physical distancing. If possible, workforce at the project site shall be kept at a minimum functional set-up.

2. During Deployment

- Contractors shall provide disinfection foot bath and hand sanitizer or alcohol spray, to be placed at strategic location within the project site to promote disinfection and sanitizing.
- 2. Contractors shall ensure compliance of their personnel/workers on the following health standards and safety protocols:

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- a. Mandatory wearing of face mask and/or face shield at all times while inside the SSS Building and/or project site.
- b. To remain within the confines of the project site, except when going to comfort room or during break time.
- c. Simultaneous break time for all construction personnel may be allowed provided that the designated dining space is feasible for physical distancing, otherwise, it shall be done in a staggered manner.
- d. Always observe physical distancing and to sanitize as may be necessary
- e. Errands to be conducted outside the project site shall be kept to a minimum and shall only be allowed if necessary.
- 3. Employee's quarter/bunkhouse and field office shall be disinfected at least once a day.
- 4. Safety officer shall monitor the health conditions of personnel/workers twice daily, during time-in and upon time-out at the project sites (see **Annex 5** *Daily COVID-19 Surveillance/Checklist Form*).

Personnel with manifestations or symptoms relative to COVID-19 shall be immediately isolated and quarantined for 14 days and if necessary, brought to the nearest DOH COVID-19 treatment facility under strict confidentiality and privacy. Proper protocols in accordance with DTI and DOLE Interim Guidelines on Workplace Prevention and Control of COVID-19 shall be strictly observe.

5. Contractors shall ensure strict compliance with the safety and health guideline as provided under DOLE Department Order No. 13 Series of 1998.

Work activities at the project site shall be under daily strict monitoring by the Safety Officer to ensure compliance with minimum health standards and safety protocols under the GCQ.

- 6. For off-site employee's quarters, the Contractor may provide transport service that should be disinfected before and after use, and with passenger capacity that shall be based on appropriate physical distancing.
- 7. Sharing of tools and equipment is discouraged. However, if necessary, shared tools and equipment must be disinfected in between transfers among personnel.
- 8. Materials and equipment delivery shall be made on an isolated loading/unloading area while limiting contact between the on-site receiving team and the delivery crew. The same set-up shall be observed for pull-out of materials and equipment.
- 9. All materials and equipment brought inside the building premises shall be duly disinfected, if possible.
- 10. Non-essential personnel, visitors and the general public shall be restricted to enter the project site, employee's quarte or field office. Otherwise, persons entering the project site on a temporary basis shall be properly logged and check for symptoms using Annexes 4 and 5 forms, respectively.
- 11. Contractors shall be responsible for the proper disposal of food wasted and unusable PPEs at the project site. If possible, these items shall be pulled out at the end of every working day at the project site.

3. Penalties

Violation of any provisions under the Construction Safety Guidelines shall be subject to the following penalties, without prejudice to the imposition of additional administrative sanctions as the internal policies of SSS may provide and/or further criminal action that may be filed against erring Contractors, as may be provided by applicable laws:

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- 1. Termination of Contract for breach thereof resulting to default pursuant to Item III (A)(2)(c)(i), Annex I of the Revised Implementing Rules and Regulations of Republic Act 9184.
- 2. Referral to the Philippine Accreditation Board of any such violations by the Contractor, which shall constitute a prima facie case of construction malperformance of grave consequence due to negligence, incompetence or malpractice contemplated under DOLE D.O. No. 13 s. 1998 in relation to Republic Act 4566 (Contractor's License Law)
- 3. Institution of criminal action under Republic Act 11469 (Bayanihan to Heal as One Act).

These guidelines may be modified or revised as the circumstances may warrant or should the Inter-Agency Task Force for the Management of Emerging Infectious Diseases or the Office of the President issue new rules pertinent to these matters.

Likewise, these guidelines are issued in consonance with the SSS House Rules for project implementation and the advisories on the precautionary measures to be implemented during GCQ.

For strict compliance.



SOCIAL SECURITY SYSTEM

ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT

CONSTRUCTION WORK PASS

Temporarily issued to



DELA CRUZ,
JUAN B.
PROJECT ENGINEER
(Name & Designation)

Insert Name of Contractor

(Company Name: Concessionaires, Contractors Consultants, Subcontractors, and Suppliers)

SSS, EAST AVENUE, QUEZON CITY

(Project Location - City/Municipality/Province/Region)

Insert Name of Head of Implementing Office

Head of Implementing Office

Date of Issue: ___ _ , 2021 Valid for __ days from date of issue

Control No.: SSS-2021-0001

SSS ACCREDITATION

PRIVATE SECTOR – CONCESSIONAIRE/CONTRACTOR/ CONSULTANT/SUPPLIER

(Name of Project)

On the basis of the present situation, bearer must observe Physical distancing in the workplace and follow existing Construction Safety Guidelines for the Implementation of Infrastructure Projects during the COVID-19 Public Health Crisis for workers of SSS and private entities.

This work pass is deemed revoked or cancelled if not used according to its purpose.

IMPORTANT:

Upon inspection at workplace, present this ACCREDITATION I.D. together with your valid company I.D.

> For further verification, Please contact:

(# of Issuing Office)

SOCIAL SECURITY SYSTEM

ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT

CONSTRUCTION WORK PASS

Temporarily issued to



DELA CRUZ, JUAN B.

PROJECT ENGINEER (Name & Designation)

Insert Name of Contractor

(Company Name: Concessionaires, Contractors Consultants, Subcontractors, and Suppliers)

SSS, EAST AVENUE, QUEZON CITY

(Project Location - City/Municipality/Province/Region)

Insert Name of Head of Implementing Office

Head of Implementing Office

Date of Issue: ____ , 2021 Valid for __ days from date of issue

Control No.: \$\$\$-2021-0001

SSS ACCREDITATION

PRIVATE SECTOR – CONCESSIONAIRE/CONTRACTOR/ CONSULTANT/SUPPLIER

(Name of Project)

On the basis of the present situation, bearer must observe Physical distancing in the workplace and follow existing Construction Safety Guidelines for the Implementation of Infrastructure Projects during the COVID-19 Public Health Crisis for workers of SSS and private entities.

This work pass is deemed revoked or cancelled if not used according to its purpose.

IMPORTANT:

Upon inspection at workplace, present this ACCREDITATION I.D. together with your valid company I.D.

For further verification, Please contact:

(# of Issuing Office)



Republic of the Philippines

SOCIAL SECURITY SYSTEM ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT

	Date:
Name of Project:	
Location:	
General Contractor:	
Sub-Contractor:	-

WORKERS RECORD LOG

No.	Name	Age	Sex	Address	Location of Origin Prior to Site Deployment	Mode of Transportation	Contact No.	Had any COVID-19 Symptoms (Y / N)	Signature





Republic of the Philippines

SOCIAL SECURITY SYSTEM

ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT SSS Building (Annex), East Avenue, Diliman, Quezon City

DAILY COVID-19 SUREVEILLANCE FILL-UP/CHECKLIST FORM

DAIL		15 GOILETELEDANGE TIEL	or / or content or	
Pangalan:			Petsa:	
Edad:	Kasarian:		Telepono:	
Lugar ng Tirahan:			Trabaho:	
Lugar ng Trabaho:				
Kontraktor:				
FEVER		RESP	PIRATORY INFECTION	
≥38°C		Presensya ng mga sumusunod (Presence of the following):		
Oo (Yes) Hindi (No)		Ubo (Cough) (productive or non-productive cough		
			ng mga nasa taas, simula kailan? nce of the above, since when?)	
naiintindihan na ang hir	di pagsago	ot sa mga katanungan o ang	dito at totoo, tama at kumpleto. Aking g maling sagot ay maaaring may seryosong de of the Philippines and Republic Act No.	

PIRMA SA TAAS NG NAKALIMBAG NA PANGALAN

