

# PROPOSAL FOR CONSULTING SERVICES CALAMBA SEPTAGE TREATMENT PLANT

## Objectives

The Septage Treatment Plant (SpTP) shall treat septage collected from the Calamba Water District service area and other contingent areas designated within the concession area.

All processes and facilities shall be designed to meet the performance requirements of the overall treatment plant. In particular, the plant must be operated in automatic mode. The inter-connections between various equipment and processes, support system and other structures must be an integrated approach, which meets operational performance, flexibility, maintenance and reliability criteria.

The SpTP works shall include but not limited to the following:

- The design and construction of the Septage Treatment Plant (SpTP)
- Commissioning, performance testing, and training of operators
- Operations and maintenance for the commissioning period of two (2) month and the process proving period two (2) months
- All other works needed to obtain a complete and correctly functioning plant such as civil works for the laboratory or administrative building.

It is the intent of this scope of works that the SpTP shall be suitable in every way for the service require, and the Contractor shall supply al materials, labor, equipment and do all work which may be reasonably implied as being required, at no additional cost to the Employer.

### 1. SCOPE OF WORK

#### Phase 1 - Preliminary Plans/Design

The Scope of our Services shall consist of the following:

- a. Proposes Influent Septage Wastewater Quality

The consultant shall set the design parameters in reference with existing/ similar establishment taking into considerations the quality and quantity wastewater subject for treatment.

- b. Compliance of Relevant Laws and Regulations to be Complied by the Project  
The Consultant shall determine the target effluent to be complied based on the requirement of DENR Administrative Order 2016-08. In addition, specific mandate of the Clean Water Act and other pertinent laws, as maybe required to be complied in the future.

- c. Conceptual Design of Septage Treatment Plant

The Consultant shall prepare the Conceptual Septage Treatment design based on the requirement of the establish DESIGN CRITERIA and in compliance with existing regulations. The Septage Treatment Plant design shall include the following:

- a. Process Flow Diagram
- b. Material Balance
- c. Hydraulic Design
- d. Sizing of Major Treatment Facilities
- e. General Plant Layout and Sections
- f. Technical Specification for bidding purpose

## **Phase 2 - Bid Process and Evaluation Support**

The scope of service to be provided by the Consultant during the bidding process for Procuring Entity shall include, but not limited to, the following tasks:

1. Assists the CWD-BAC in the evaluation of technical and financial proposals submitted by the bidders and provide technical/ advisory assistance on other relevant matters and concerns pertaining to the bid process, as necessary, until the completion of contract award to the winning bidder.
2. The consultant is expected to validate the soundness/ acceptability of the technical proposal and financial models during the bid evaluation process.

### **Phase 3 - Assistance in Project Monitoring from Construction/ Commissioning**

The consultant shall provide the following services on an arrange ON-CALL Services:

1. Review and recommend for approval of the CWD, the detailed construction methodology and ensure that works are being carried out in accordance with the approved methodology, Plans, Technical specifications, actual site conditions, and safety program.
2. Review and recommend all Contractor's working drawings, shop drawing, erection drawing and drawings for temporary works subject for approval by CWD.
3. Advise the CWD on concerns pertaining to the efficient implementation of the project.
4. Inform the CWD on any problem or potential problems that may arise related to the project and make immediate recommendations to CWD for possible solutions;
5. Assist CWD in settling possible disputes relative to the implementation of the project.
6. Validate any change in the plans which may be deemed necessary for the completion of works, including information that may affect the contract amount and time of completion of the project shall be submitted for approval by CWD; and
7. All matters related to the Contractor's claims for extension, extra compensations, woks expenses and other related matters shall be evaluated and make necessary recommendation to CWD; and
8. Prepare review and make recommendations on all necessary work orders, change orders and supplemental agreements, including revisions of plans and specifications, and if called for, assists in the negotiation for new or revised unit prices and for other details in accordance with good engineering practice.
9. Proposal and financial models during the bid evaluation process.
10. Review and certify for approval of the CWD, that As-Built drawings submitted by the **Contractor**, accurately indicating the completed works or any of its segment and conform to the standards set by CWD; and
  - Review the documents for acceptance of work by CWD:
  - Review the Commissioning Plan for approval of CWD; and
  - Validate the Operations and Maintenance Manual submission of the Contractor
  - Review training components to be delivered by the Contractor;
  - Recommends that the SpTP is ready and operational for turn-over.

**Phase 4 - Permits: (ECC, Discharge permit, Environmental Sanitation Certificate, Building Permit and other related requirements)**

The consultant shall provide the following services:

1. To secure all pertinent permits such as ECC, Discharge permit, Environmental Sanitation Certificate, Building Permit and other related requirements

2. PROFESSIONAL FEE

The professional fee for the above scope of work is in accordance with Republic Act 9184

3. TERMS OF PAYMENT

The proposed terms of payment for the remuneration cost shall be in accordance with Republic Act 9184.

4. PROJECT DURATION

**Phase 1 – Review of Preliminary Plans**

Duration: Within two (2) months from issuance of NTP

**Phase 2 – Bid Process and Evaluation Support**

Duration: Within one (1) month from acceptance of Bid Documents

**Phase 3 – Assistance Project Monitoring from Construction to Commissioning**

Duration: Entire Construction Period and Commissioning

5. DELIVERABLES

**Phase 1:**

Review & Design evaluation Report with Recommendations on Best Design Practices

**Phase 2:**

Bid Evaluation Report

**Phase 3:**

Project Acceptance Review Report

**Phase 4:**

Permits/Study Relevant to the Project