

# PHILIPPINE BIDDING DOCUMENTS

# PROCUREMENT OF DESIGN AND BUILD FOR PYROLYSIS GASIFICATION SYSTEM

Identification No. 100-23-05-852

Approved Budget for the Contract Php 70,000,000.00



# Section I. INVITATION TO BID

#### BIDS AND AWARDS COMMITTEE

#### **INVITATION TO BID**

DESIGN AND BUILD FOR PYROLYSIS GASIFICATION SYSTEM (DUAL CHAMBERS) COMPLETE WITH EMISSION CONTROL DEVICE, AUTOMATIC FEEDING SYSTEM, SHREDDER, WASTEWATER TREATMENT PLANT, AIR POLLUTION MONITORING SYSTEM, BRICK MAKING MACHINE AND PLANT BUILDING

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- 1. The CITY GOVERNMENT OF LEGAZPI, through the GENERAL FUND CY2023 intends to apply the sum of Seventy Million Pesos Only (P70,000,000.00) being the ABC to payments under the contract for the detailed design and construction of Pyrolysis Gasification System (Dual Chambers) complete w/ Emission Control Device, Automatic Feeding System, Shredder, Wastewater Treatment Plant, Air Pollution Monitoring System, Brick-Making Machine and Plant Building for Solid Waste Treatment & Disposal Facility. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The CITY GOVERNMENT OF LEGAZPI now invites bids for the above Procurement Project <u>DESIGN AND BUILD</u> of Pyrolysis Gasification System (Dual Chambers) complete w/ Emission Control Device, Automatic Feeding System, Shredder, Wastewater Treatment Plant, Air Pollution Monitoring System, Brick-Making Machine and Plant Building for Solid Waste Treatment & Disposal Facility. Duration of the said project should be within 180 calendar days upon receipt of Notice to Proceed. Bidder should have completed, within five (5) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
  - a. [Select this paragraph if conditions (a), (c), and (d) under Section 23.4.1.2 of the 2016 revised IRR of RA No. 9184 do not exist:] Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

- 4. Prospective Bidders may obtain further information from *CITY GOVERNMENT OF LEGAZPI* and inspect the Bidding Documents at the address given below during *08:00AM-05:00PM*.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders from July 4, 2023 to July 25, 2023 from the General Services Office and upon payment of the applicable fee for the Bidding Documents, in the amount of Fifty Thousand Pesos Only (P50,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
- 6. The *CITY GOVERNMENT OF LEGAZPI* will hold a Pre-Bid Conference on July 11, 2023 at 2:00 o'clock in the afternoon at Internal Audit Office, Conference Room, City Hall Compound, Legazpi City
- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before July 25, 2023, until 12:00 noon at General Services Office, City Hall Compound, Legazpi City. Late bids shall not be accepted.
- 8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
- 9. Bid opening shall be on **July 25**, **2023** at *2:00 o'clock in the afternoon* at **Internal Audit Office, Conference Room, City Hall Compound, Legazpi City.** Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The *CITY GOVERNMENT OF LEGAZPI* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the Updated IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. For further information, please refer to:

Ms. KRISTINE MENESES-TORRES Head, Bids and Awards Committee Secretariat General Services Office, City Hall Compound, Legazpi City secgso@gmail.com

12. You may visit the following websites: https://www.philgeps.gov.ph https:legazpi.gov.ph

Bids and Awards Committee Chairman



# Section II. INSTRUCTION TO BIDDERS

#### 1. Scope of Bid

The CITY GOVERNMENT OF LEGAZPI wishes to receive Bids for the DESIGN and BUILD of Pyrolysis Gasification System (Dual Chambers) complete w/ Emission Control Device, Automatic Feeding System, Shredder, Wastewater Treatment Plant, Air Pollution Monitoring System, Brick-Making Machine and Plant Building for Solid Waste Treatment & Disposal Facility, with identification number 100-23-05-852.

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

The Procurement Project (referred to herein as ("Pyrolysis Gasification System (Dual Chambers)") is composed of ITEMS No.: 1-1 the details of which are described in Section VII (Technical Specifications).

#### 2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for *CY2023* in the amount of SEVENTY MILLION PESOS ONLY (P70,000,000.00).
- 2.2. The source of funding is:
  - a. LGUs, the proposed Local Expenditure Program.

#### 3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its latest revised IRR, including its Generic Procurement Manuals 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 **IB** 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 verified and accepted the general requirements of this Project, including 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, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, 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 latest revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

#### 5. Conflict of Interest

- 5.1 All Bidders found to have conflicting interests shall be disqualified to participate in the procurement at hand, without prejudice to the imposition of appropriate administrative, civil, and criminal sanctions. A Bidder may be considered to have conflicting interests with another Bidder in any of the events described in paragraphs (a) through (c) below and a general conflict of interest in any of the circumstances set out in paragraphs (d) through (g) below:
  - 5.1.1 A Bidder has controlling shareholders in common with another Bidder;
  - 5.1.2 A Bidder receives or has received any direct or indirect subsidy from any other Bidder;
  - 5.1.3 A Bidder has the same legal representative as that of another Bidder for purposes of this bid;
  - 5.1.4 A Bidder has a relationship, directly or through third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder or influence the decisions of the Procuring Entity regarding this bidding process;
  - 5.1.5 A Bidder submits more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid:
  - 5.1.6 A Bidder who participated as a consultant in the preparation of the design or technical specifications of the Goods and related services that are the subject of the bid; or
  - 5.1.7 A Bidder who lends, or temporarily seconds, its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.
  - 5.2 In accordance with Section 47 of the IRR of RA 9184, all Bidding Documents shall be accompanied by a sworn affidavit of the Bidder that it is not related to the Head of the Procuring Entity (HoPE), members of the Bids and Awards Committee (BAC), members of the Technical Working Group (TWG), members of the BAC Secretariat, the head of the Project Management Office (PMO) or the end-user unit, and the project consultants, by consanguinity or affinity up to the third civil degree. On the part of the Bidder, this Clause shall apply to the following persons:
    - 5.2.1 If the Bidder is an individual or a sole proprietorship, to the Bidder himself;

- 5.2.2 If the Bidder is a partnership, to all its officers and members;
- 5.2.3 If the Bidder is a corporation, to all its officers, directors, and controlling stockholders;
- 5.2.4 If the Bidder is a cooperative, to all its officers, directors, and controlling shareholders or members; and
- 5.2.5 If the Bidder is a joint venture (JV), the provisions of items (a), (b), (c), or (d) of this Clause shall correspondingly apply to each of the members of the said JV, as may be appropriate.

Relationship of the nature described above or failure to comply with this Clause will result in the automatic disqualification of a Bidder.

#### 6. Eligible Bidders

- 6.1 Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 6.2 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**.
- 6.3 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.
- The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184 as well as the additional criteria for design and build projects under Annex "G" of the updated IRR of RA 9184.

#### 7. Bidder's Responsibilities

- 7.1 The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Section VIII. Bidding Forms as required in **ITB** Clause 12.1(b)(iii).
- 7.2 The Bidder is responsible for the following:
  - 7.2.1 Having taken steps to carefully examine all of the Bidding Documents;

- 7.2.2 Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;
- 7.2.3 Having made an estimate of the facilities available and needed for the contract to be bid, if any;
- 7.2.4 Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin(s) as provided under **ITB** Clause 10.4.
- 7.2.5 Ensuring that it is not "blacklisted" or barred from bidding by the GOP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;
- 7.2.6 Ensuring that 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;
- 7.2.7 Authorizing the HoPE or its duly authorized representative/s to verify all the documents submitted;
- 7.2.8 Ensuring that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Bidder in the bidding, with the duly notarized Secretary's Certificate attesting to such fact, if the Bidder is a corporation, partnership, cooperative, or joint venture;
- 7.2.9 Complying with the disclosure provision under Section 47 of RA 9184 and its IRR in relation to other provisions of RA 3019;
- 7.10 Complying with existing labor laws and standards, in the case of procurement of services; Moreover, bidder undertakes to:
  - a. Ensure the entitlement of workers to wages, hours of work, safety and health and other prevailing conditions of work as established by national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable.
    - In case there is a finding by the Procuring Entity or the DOLE of underpayment or non-payment of workers' wage and wage-related benefits, bidder agrees that the performance security or portion of the contract amount shall be withheld in favor of the complaining workers pursuant to appropriate provisions of Republic Act No. 9184 without prejudice to the institution of appropriate actions under the Labor Code, as amended, and other social legislations.
  - b. Comply with occupational safety and health standards and to correct deficiencies, if any.

In case of imminent danger, injury or death of the worker, bidder undertakes to suspend contract implementation pending clearance to proceed from the DOLE Regional Office and to comply with Work Stoppage Order; and

- c. Inform the workers of their conditions work, labor clauses under the contract specifying wages, hours of work and other benefits under prevailing national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable, through posting in two (2) conspicuous places in the establishment's premises; and
- 7.11 Ensuring that it 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.

Failure to observe any of the above responsibilities shall be at the risk of the Bidder concerned.

- 7.3 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents.
- 7.4 It shall be the sole responsibility of the Bidder to determine and to satisfy itself by such means as it considers necessary or desirable as to all matters pertaining to the contract to be bid, including: (a) the location and the nature of this Project; (b) climatic conditions; (c) transportation facilities; and (d) other factors that may affect the cost, duration, and execution or implementation of this Project.
- 7.5 The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity. However, the Procuring Entity shall ensure that all information in the Bidding Documents, including bid/supplemental bid bulletin/s issued, are correct and consistent.
- 7.6 Before submitting their bids, the Bidder is deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect this Project in any way.
- 7.7 The Bidder shall bear all costs associated with the preparation and submission of his bid, and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 7.8 The Bidder should note that the Procuring Entity will accept bids only from those that have paid the applicable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

#### 8 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, subject to Domestic Preference requirements under **ITB** Clause 18.

#### 9 Subcontracts

- 9.1 The Procuring Entity has prescribed that:
  - a. Subcontracting is NOT allowed.

#### **B. CONTENTS OF BIDDING DOCUMENTS**

#### 10 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 {[insert if applicable]} and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

#### 11 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.

#### C. PREPARATION OF BIDS

#### 12 Language of Bids

The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and shall be authenticated by the appropriate Philippine foreign service establishment/post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. The English translation shall govern, for purposes of interpretation of the bid.

#### 13 Documents comprising the Bid: Eligibility and Technical Components

- 13.1 The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII** (Checklist of Technical and Financial Documents).
- 13.2 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. Similar to the required authentication above, 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.
- 13.3 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**.
- 13.4 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**.
- 13.5 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**.

#### 14 Documents comprising the Bid: Financial Component

- 14.1 The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 14.2 Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 14.3 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.

#### 15 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.

#### 16 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.

#### 17 Bid and Payment Currencies

- 17.1 For Goods that the Bidder will supply from outside the Philippines, the 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.
- 17.2 Payment of the contract price shall be made in:
  - a. Philippine Pesos.

#### 18 Bid Validity

- 18.1 Bids shall remain valid for the period specified in the <u>BDS</u> which shall not exceed one hundred twenty (120) calendar days from the date of the opening of bids.
- 18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Procuring Entity may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. The bid security described in **ITB** Clause 18 should also be extended corresponding to the extension of the bid validity period at the least. A Bidder may refuse the request without forfeiting its bid security, but his bid shall no longer be considered for further evaluation and award. A Bidder granting the request shall not be required or permitted to modify its bid.

#### 19 Bid Security

19.1 The Bidder shall submit a Bid Securing Declaration<sup>1</sup> 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**.

<sup>&</sup>lt;sup>1</sup> In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

19.2 The Bid and bid security shall be valid for 120 calendar days Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

#### 20 Sealing and Marking of Bids

Each Bidder shall submit **one original copy and four photocopies** 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 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.

#### 21 Deadline for Submission of Bids

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

#### 22 Opening and Preliminary Examination of Bids

22.1 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.

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

#### 23 Detailed Evaluation and Comparison of Bids

- 23.1 The Procuring 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 the 2016 revised IRR of RA No. 9184.
- 23.2 If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.

23.3 The descriptions of the lots or items shall be indicated in **Section VII** (**Technical Specifications**), although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

#### 24 Post-Qualification

24.1 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, {[Include if Framework Agreement will be used:] or in the case of multi-year Framework Agreement, that it is one of the eligible bidders who have submitted bids that are found to be technically and financially compliant,}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. {[Include if Framework Agreement will be used:] For every mini-competition in Framework Agreement, the LCB shall likewise submit the required documents for final Post Qualification.}

#### 25 Signing of the Contract

- 25.1 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**.
- 25.2 Within ten (10) calendar days from receipt of the Notice of Award, the successful Bidder shall post the required performance security, sign and date the contract and return it to the Procuring Entity.
- 25.3 The Procuring Entity shall enter into contract with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.
- 25.4 The following documents shall form part of the contract:
  - (a) Contract Agreement;
  - (b) Bidding Documents;
  - (c) Winning Bidders bid, including the Technical and Financial Proposals, and all other documents/statements 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;
  - (d) Performance Security;
  - (e) Notice of Award of Contract; and
  - (f) Other contract documents that may be required by existing laws and/or specified in the BDS.

### **26 Performance Security**

- 26.1 To guarantee the faithful performance by the winning Bidder of its obligations under the contract, it shall post a performance security within a maximum period of ten (10) calendar days from the receipt of the Notice of Award from the Procuring Entity and in no case later than the signing of the contract.
- 26.2 The Performance Security shall be denominated in Philippine Pesos and posted in favor of the Procuring Entity in an amount not less than the percentage of the total contract price in accordance with the following schedule:

Form of Performance Security	Amount of Performance Security (Not less than the Percentage of the Total Contract Price)
26.1.1.1 Cash or cashier's/manager's check issued by a Universal or Commercial Bank.  For biddings conducted by the LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.  26.1.1.2 Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.  For biddings conducted by the LGUs, the Bank Draft/ Guarantee or Irrevocable Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	Five percent (5%)
26.1.1.3 Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Thirty percent (30%)

26.3 Failure of the successful Bidder to comply with the above-mentioned requirement shall constitute sufficient ground for the annulment of the award and forfeiture of the bid security, in which event the Procuring Entity shall have a fresh period to initiate and complete the post qualification of the second Lowest Calculated Bid. The procedure shall be repeated until LCRB is identified and selected for recommendation of contract award. However, if no Bidder passed post-qualification, the BAC shall declare the bidding a failure and conduct a re-bidding with re-advertisement, if necessary.

#### 27. Notice to Proceed

Within seven (7) calendar days from the date of approval of the Contract by the appropriate government approving authority, the Procuring Entity shall issue the Notice to Proceed (NTP) together with a copy or copies of the approved contract to the successful Bidder. All notices called for by the terms of the contract shall be effective only at the time of receipt thereof by the successful Bidder.

#### 28. Protest Mechanism

Decision of the procuring entity at any stage of the procurement process may be questioned following the protest mechanism under the updated IRR of RA 9184.

### Section III. Bid Data Sheet

#### **Notes on the Bid Data Sheet**

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

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

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

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

# **Bid Data Sheet**

ITB Clause			
1	The Procuring Entity is City Government of Legazpi, located at Rizal Street, Legazpi City		
2.1	The Funding Source is:		
	The GOP though:		
	LGUs, the proposed Local Expenditure Program		
3	Annex "G" of the Updated IRR for RA 9184 re: Guidelines for the Procurement and Implementation for Design and Build Implementation Projects apply in a supplementary capacity.		
4	No further instructions.		
5	No further instructions.		
6	The Procuring Entity will hold a pre-bid conference for this Project on July 11, 2023, 2:00 in the afternoon at Internal Audit Service Conference Room, City Hall Compound, Legazpi City.		
62	Similar contract refers to a contract for Design and Build of a Pyrolysis Gasification System (Dual Chambers) with the following additional components:		
	a. Emission Control Device		
	b. Automatic Feeding System		
	c. Shredder		
	d. Wastewater Treatment Plant		
	e. Air Pollution Monitoring System		
	f. Brick-Making Machine and Plant Building for Solid Waste Treatment & Disposal Facility		
6.4	In case of joint venture/consortia among Filipino contractors and consultants or among Filipino contractors and foreign consultants: Filipino ownership or interest thereof must be at least 75%, and those who will actually perform the services shall be Filipino citizens and registered professionals authorized by the appropriate regulatory body to practice those professions and when foreign designers are required, the foreign designer must be authorized by the appropriate		

	Philippine Government professional regulatory body to engage in the practice of those professions and allied professions.					
13.1	Additional licenses and permits that are to form part of the technical bid:					
	<ul> <li>Original Environmental Technology Verification (ETV)         Certificate issued by the DOST with the ETV Reference Number;     </li> </ul>					
	Emission analysis and TCLP results;					
	<ul> <li>Actual ECC with EIS from previous similar projects (Pyrolysis Gasification System)</li> </ul>					
	<ul> <li>Valid licenses of the architects and engineers that comprise the key personnel/design professionals in the team</li> </ul>					
	Note: ECC should be with EIS since the proposed project needs ECC with EIS					
13.3	PCAB Lice	ense - General Eng	ineering A			
	If joint venture agreement, both company should have similar project experience and PCAB License - General Engineering A.					
13.4	<ul> <li>Professional Experience of key personnel:</li> <li>10 years relevant experience as structural engineer</li> </ul>					
	• 10 years relevant experience as project engineer					
	• 10 years relevant experience as electrical engineer					
	• 10 years relevant experience as sanitary engineer					
	10 years relevant experience as mechanical engineer					
13.5	List of min	imum major equip	oment units:			
	Equipment	Capacity	Number of Units			
	Transit Mixer		one (1) unit			
	Bagger Mixer					
	Delivery Truck		two (2) units			
	Boom Truck		one (1) unit			
	Welding Machine Acetylene Cutting	two (2) units one (1) unit				
	Road Roller	one (1) unit				
	Backhoe	.75 cu.m	one (1) unit			
15	With value	engineering analy	sis for design and construction method			
	1					

18-19	The bid security shall be in the form of a Bid Securing Declaration which must be valid for 120 days and in any of the following forms and amounts:  a. The amount of not less than <b>P1,400,000.00</b> if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or  The amount of not less than <b>P3,500,000.00</b> if bid security is in Surety Bond.
20	Online submission of bids not allowed
21-28	No further instructions

### **Section IV. General Conditions of Contract**

#### **Notes on the General Conditions of Contract**

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

#### 1. SCOPE OF THE 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. Advance Payment and Terms of Payment

- 2.1 Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

[Include the following clauses if Framework Agreement will be used:]

- 2.3 For a single-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier in its bid.
- 2.4 For multi-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier during conduct of Mini-Competition.

#### **3 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).

#### 4 Possession of Site

- 4.3 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.
- 4.4 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" and Annex "G" 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.

Also, the contractor shall shoulder the expenses for the processing and issuance of the following:

- 3.1. Environment Compliance Certificate (ECC) with Environmental Impact Statement (EIS)
- 3.2 Permit to Operate (PTO)
- 3.3 Wastewater Discharge Permit (WDP)
- 3.4 DENR Registry ID Application

#### **5. Performance Security**

5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both

parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.

5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association

supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

#### 6. Inspection and Tests

#### ACCREDITATION OF TESTING LABORATORIES

To help ensure the quality of materials being used in infrastructure projects, the Bureau of Research and Standards (BRS) of the DPWH, Department of Science and Technology (DOST), or Department of Trade and Industry (DTI) shall accredit, in accordance with industry guidelines, the testing laboratories whose services are engaged or to be engaged in infrastructure projects. All government infrastructure project owners must accept results of material test(s) coming only from DOST/BRS accredited laboratories.

#### **EVALUATION OF CONTRACTORS PERFORMANCE**

Subject and Scope All Procuring Entities implementing government infrastructure projects are mandated to evaluate the performance of their contractors using the NEDAApproved Constructors Performance Evaluation System (CPES) Guidelines for the type of project being implemented. These guidelines cover all infrastructure projects awarded by the government regardless of contract amount and funding source. CPES evaluation shall be done during construction and upon completion of each government project. To ensure continuous implementation of CPES, all Procuring Entities concerned are required to include in their Projects' Engineering and Administrative Overhead Cost the budget for the implementation of CPES pursuant to NEDA Board Resolution No. 18 (s. 2002).

#### **Evaluation Guidelines**

For project types which do not have specific CPES Guidelines, the Procuring Entities concerned may formulate and adopt their own implementing Guidelines specific to their needs provided the NEDA-INFRACOM poses no objections to their adoption, and provided further that said Guidelines are made known to all prospective bidders.

Implementation Mechanism for CPES All Procuring Entities implementing infrastructure projects are required to establish CPES Implementing Units (IUs) in their respective offices/agencies/corporations. The CPES Implementing Units shall be responsible for the implementation of the CPES Implementing guidelines, including but not limited to, the supervision of Constructors Performance Evaluators (CPEs) to be accredited by the Construction Industry Authority of the Philippines (CIAP). The procuring entity's CPES IU shall be responsible for the following: a) pre-screening of applications of CPEs, b) funding for CPEs accreditation training and seminars; and c) yearly evaluation of CPEs.

Submission and Dissemination of Evaluation Results All Procuring Entities implementing CPES shall submit the results of their performance evaluation to the CIAP on a monthly basis or as often as necessary. The procuring entity's CPES-IU shall likewise develop and maintain a databank and disseminate the CPES reports to the concerned units/departments within the procuring entity and to other interested users.

Utilization of Evaluation Results The CIAP shall consolidate all of the CPES evaluation results received and shall disseminate the same to all Procuring Entities concerned. The CPES rating and other information shall be used by the concerned government agencies for the following purposes: (a) pre-qualification/eligibility screening of constructors; (b) awarding of contracts; (c) project monitoring and control; (d) issuance of Certificate of Completion; (e) policy formulation/review; (f) industry planning; (g) granting of Incentives/Awards, and, in adopting measure to further improve performance of contractors in the prosecution of government projects.

#### 7. Warranty

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.

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 Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

#### 8. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier 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.

#### 9. 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.

#### 10. Program of Work

- 10.1. 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**.
- 10.2. 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.

#### 11. 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.

#### 12. 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.

#### 14. Operating and Maintenance Manuals

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

# Section V. Special Conditions of Contract

#### **Notes on the Special Conditions of Contract**

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

# **Special Conditions of Contract**

GCC Clause				
2	Date of completion is 180 calendar days from Notice to Proceed			
4.1	Full possession of the site is to be delivered to the Contractor within 10 days from issuance of the Notice to Proceed.			
6	The site investigation reports are:			
	<ul> <li>An estimate of the values for the compressive strength of the soil</li> </ul>			
	The groundwater table position			
	The composition of soil			
	The extent and depth of the layers of soil			
	The overall depth of the hard stratum from the ground level			
	Various engineering properties of the soil,			
7.2	In case of permanent structures, such as buildings of types 4 and 5 classified under the National Building Code of the Philippines and oth structures made of steel, iron, or concrete which comply with releve structural codes (e.g., DPWH Standard Specifications), such as, but a limited to, steel/concrete bridges, flyovers, aircraft movement areas, por dams, tunnels, filtration and treatment plants, sewerage systems, pow plants, transmission and communication towers, railway system, a other similar permanent structures:] Fifteen (15) years.  In case of semi-permanent structures, such as buildings of types 1, 2, a 3 as classified under the National Building Code of the Philippin concrete/asphalt roads, concrete river control, drain age, irrigation lin canals, river landing, deep wells, rock causeway, pedestrian overpa and other similar semi-permanent structures:] Five (5) years.  in case of other structures, such as bailey and wooden bridges, shall wells, spring developments, and other similar structures:] Two (2) year The warranty security shall be THREE MILLION FIVE HUNDRI THOUSAND PESOS (P 3,500,000.00) which is equivalent to 5% of the ABC and shall be released upon issuance of a Certificate of Fin			
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.			
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <i>14 days</i> of delivery of the Notice of Award.			

11.2	The amount to be withheld for late submission of an updated Program of Work is THREE MILLION FIVE HUNDRED THOUSAND PESOS (P 3,500,000.00) which is equivalent to 5% of the ABC.
13	No advance payment shall be made.
14	Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which operating and maintenance manuals are required is seven days before the initial request for final inspection.  The date by which "as built" drawings are required is seven days before the initial request for final inspection.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is <i>TWO MILLION ONE HUNDRED THOUSAND PESOS (P 2,100,000.00)</i>

# Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item No.	Qty.	Unit	ITEM DESCRIPTION	Estimated Unit Cost		CONTRACT DURATION
1.	1	LOT	PYROLYSIS GASIFICATION SYSTEM (DUAL CHAMBERS) Complete w/ Emission Control Device, Automatic Feeding System, Shredder, Wastewater Treatment Plant, Air Pollution Monitoring System, Brick- Making Machine, and Plant Building  Capacity: 3,750 kgs/hr of Residual &	70,000,000.00	70,000,000.00	WITHIN 180 CD
			Medical Waste  OVER-HEAD GRAB/CLAW MOBILE CRANE COMPLETE WITH ELECTRIC MOTOR DRIVE AND CONTROL ROOM			
			Type: Single Girder Over Head Crane with control Claw type: Hydraulic Grabber Grab volume: 1.0 cu.m. Grab Capacity: 1.5 tons for heavy materials Lifting Capacity: 3 tons Span: 20 meters Lifting Weight: 10 meters			
			Lifting Mechanism: Electric Hoist, Single Lifting speed wire rope Control Method: Remote Controller with cabin control Frame Material: High Grade Steel Accessories: Access Ladder Paint: Corrosion Resistant Primer + Epoxy Top Coat Power Supply: 220V, 3phase, 60Hz Quantity: 1 set			
			PLASTIC AND METAL SHREDDER Shredder Type: Double Shaft Blades Material: Epoxy Coated Steel Capacity: 2,000 kgs/hr Waste to Shred: Medical and Residual Wastes with metals/ steel Shredded Size: 30-50mm Power: 220V, 3 phase, 60Hz Accessories: Large Feeding Funnel, Leg			
			support Safety Features: Emergency Isolator Switch each motor,  Motor Overload, Motor Alarm Tracker Motor Brand: German or Japanese brand Quantity: 2 sets			

# FEEDING CONVEYOR FOR PYROLYSIS GASIFICATION

Conveyor Type: Metal Hinged Steel Belt or

Steel Slat Belt Capacity: 2000kgs/hr

Frame Material: High Grade Steel Belt Material: High Grade Steel

Side Wall: Bended Steel @350mm Height

**Both Sides** 

Scraper Material: High Grade Steel @ 0.5-

0.8m distance

Between scraper

Conveyor Width: 900mm minimum Conveyor Length: 5 meters minimum

Power: 220V, 3phase, 60Hz

Accessories: Feeding Funnel, Leg Support Safety Features: Emergency Isolator Switch each motor, Motor overload, Motor Alarm

Tracker

Motor Brand: German or Japanese brand

Quantity: 2 sets

#### PYROLYSIS GASIFICATION SYSTEM (with issued Environmental Technology Verification ETV from DOST-ITDIwhich include results of analysis for Dioxins and Furans)

Burning Method: Pyrolysis Gasification

System

No. of Chambers: Dual Chambers

Fuel: Diesel, Automatic injection with fuel save mode

External Material: Reinforced Chamber with High Temperature

**Epoxy Coated Steel** 

Internal Lining: High Temperature Bricks and Coasted

Cement with design

temperature at 2,000 degree Celsius

Insulation: 50mm HighTemperature

**Insulating Fiber** 

Treating Capacity: 1,875 kgs/hour per unit Burning Temp. : >1,300 degree Celsius Sensors: High Thermocouple Sensor

1 x Primary Chamber

1 x Secondary Chamber

1 x Stack Pie

Chimney Dim.: 500mm dia. @ 3 meters

length from the roof height Diesel Tank Cap: 800 liters

Fuel line: 1/2" dia. GI Pipe and High

Pressure Hose

Ignition: Automatic Spray

Primary Comb.: 0.45 kW @ 2 units-

minimum

Secondary Comb.: 0.45 kW @ 1 unit-

minimum

Air Blower:  $0.55~\mathrm{kW}$  @ 1 unit-minimum

Air Chamber: more than 2 seconds

Power: 220V, 3phase, 60Hz

Ash Cleaning: Manual Scraping with ash bin

(1st and 2nd Chamber)

Burning Rate: >98% Efficiency

Bottom Grating: SUS304 Stainless Steel

Grade @20mm

Opening

(Removable)

Control: Programmable Logic Controller

With Human-Machine Interface

Control complete w/

Alarm Tracker and motor total running hours

Automatic Air Blower Control

(Constant Pressure Interlock to Pressure Sensor)

Accessories: Open and Close Door indicator light & buzzer,

Automatic/motorized Feeding Gate, heavy duty and fully insulated front/side/bottom door, heavy duty screw type door lock, ash collection system

Stack by-pass motorized damper, fuel meter, door alarm, fuel pressure gauge, air blower valve, fuel level gauge & low level alarm, VFD air blower, control access level

Safety Features: Emergency Isolator Switch each motor, Motor Overload, Motor Alarm Tracker

Tacker

Bumer Brand: Italian or equivalent

Quantity: 2 sets

# EMISSION CONTROL DEVICE (ECD) QUENCHER

Type: Venturi complete w/ Dual Micro Sprayer

Chemical Dosing: Automatic complete w/ PVC Sch.80 piping system

Chemical Type: Liquid pH Neutralizer Chem. Tank Cap.: 1000 liters PE Tank

complete w/ Epoxy Coated Skid Spray Nozzle: SUS316 Grade non-clog, 180

deg spray angel Chamber Material: Stainless Grade

Reinforced Steel

Sensors: High Temperature Type pH Neutralizer Transmitter

Dosing Device: Automatic Control Dosing System

pH Control Range: 7-9 Quantity: 2 sets

# COOLING TOWER & FLUE GAS TREATMENT SYTEM

Chamber type: Reinforced Tower Tank complete w/ high temp epoxy paint

Spray type: Non-clog, spiral spray system

Spray Material: SUS316 Grade

Tower Volume: 7.0 cu.m. complete w/ false bottom and Stiffeners, minimum

Spray Nozzle: SUS316 Grade non-clog, 180

deg spray angle

Tank Material: Stainless Grade Reinforced

Steel

Dimension: 1.2m length x 1.2m width @

4.8m height

Media: High Temperature, High Surface media with design temperature at 600 degree

Celsius

Reservoir Volume: 7 cu.m.

Pump Type: Centrifugal Design for High

Temperature

Capacity: 90 m3/hr @ 45m Head, minimum

Power: 220V, 3phase, 60Hz

Features: Sight Glass, 1.5" float valve, drain,

manhole

Piping: 6" dia. GI Pipe, valves and fittings

Quantity: 2 sets

## WASTEWATER TREATMENT SYSTEM

Type: Filter Cloth Filtration System Primary Filtration: 50 micron Filter bag Secondary Filter: 10 micron Filter bag

Filtration Capacity: 10m3/hr Pump Type: Centrifugal Pump

Pump Capacity: 10m3/hr @ 35 meter head

Pump QTY: 1 duty Filtration Qty: 2 sets

#### AIR BLOWER SYSTEM

Type: Anti-Vibration Centrifugal Belt Drive Capacity: 10,000 m3/hr @ 1,000kPa,

minimum

Shell Material: Reinforced Fiberglass, Acid

& Alkali Resistant Shaft Material: S45C

Belt Type: High Tension Belt V-Shape Bearing type: Oil cooled CI casing, SKF

bearing

Rotor Dynamic BalanceL 2.5mm/s grade in line with ISO01940

Fan unit Vibration: 4.5 mm/s level in line with ISO2372

Sensor: Negative Pressure Transmitter

Control: Fully Automatic with VFD to maintain the air pressure of the exhaust

system, cooling down cycle Quantity: 2 sets + 1 spare

#### EMISSION FILTRATION SYSTEM

Type: Electrolysis

Capacity: 10,000 m3/hr, minimum

Chamber Type: Reinforced Vertical Tower

Electrolysis

Chamber Material: Stainless Steel Grade Cleaning type: Non-clog, Spiral Spray

System

Spray Material: SUS316 grade Backwash Pump: Centrifugal Type

Power: 220V, 3phase, 60Hz

Features: Automatic System complete w/

Auto Cleaning Quantity: 2 sets

#### **BRICK MAKING MACHINE**

Mixer type: Semi-wet Concrete Mixer @

7.5kW

Material: Epoxy Coated steel Brick Capacity: 1000 pcs/hr

CHB #5 Capacity: 450-600 pcs/hr @ 24

seconds

Main Machine: Mold Vibration

Hand Cart: 2 sets Machine Weight: 1 ton Power: 220V, 3phase, 60Hz

Safety Features: Emergency Isolator Switch

each motor, Motor Overload

Ouantity: 1 set

## CONTROL SYSTEM AND FIELD WIRING

Control Panel Type: Standing type of wall

mounted

Material: Stainless Steel Grade

Features: Double door with glass front, PLC, & MHI Control, Fuel saving mode, Sequential operation

Safety: Overload protection each motor, alarm system, data logging, running hours, system fault warning

Indicator light: Power, Alarm, Motor RUN/OFF/AUTO, Fault

Alarms: Beacon Light complete w/ Siren Component Brand: German, Japanese Brand or equivalent

Quantity: 2 sets

#### **CABLING WORKS:**

Motor Termination: Liquid tight hose and fittings

Insulation type: GI IMC conduit pipes and

PVC Pipes

Power Supply to Motor: Included Wire type: THHN Stranded

Quantity: 2 lots

#### BUILDING FOR PYROLYSIS GASIFICATION SYSTEM

Building Code Area: 600 sq.m.

Building Dimension: 20m width x 30m

length @ 6m height

Building type: Semi-Open Reinforced H-

Beam Structure

Material: Hot Dipped Galvanized Steel Roof & Cladding Type: Long Span Rib type Features: LED Lightings & power outlets Rooms/Storage: Admin Room / T&B/Isolated Hazardous Waste Storage/ 400 cu.m. Tipping Floor Pit/ CHB Storage Flooring: 6" Reinforced Concrete Slab @

3000 psi Quantity: 1 set

#### OPERATION AND MAINTENANCE

Personnel Type: Highly Trained Technical

Working hours: 8 hours-1 day shift

Duration: 7 months

#### **SPARE PARTS**

All mechanical equipment that is being supplied shall have spare parts or service units.

- Overhead Crane4 pcs Wheel bridge
- Tipping Pit Submersible Pump 1 unit ½" HP Submersible Pump
- Double Shaft Shredder
   1 set Blades and Spaces for Shaft 1
   1 set Blades and Spacers for Shaft 2
- Metal Feeding Conveyor 1 set Gearbox and Motor assembly
- Pyrolysis Gasification System
   2 sets Burner assembly
   2 sets Door seal
   1 set Burner Gratings
   6 sets Fuel Filter
- Emission Control Device
   10 sets Spray Nozzle
   2 sets Shaft Seal & Bearing for Cooling Tower Pump
  - 1 set Shaft Seal & Bearing for Sludge Pump
  - 1 set Shaft Seal & Bearing for AOP Recirculation pump
  - 2 sets Shaft Seal & Bearing for Electrolysis Backwash Pump
  - 2 sets Shaft Seal & Bearing for Submersible Pump (Sump Pit)
  - 1 set Filter Cloth for Filter Press
  - 2 sets Bearing & Belt for Air Blower 1 unit Air Blower Assembly
- Brick Making Machine
   1 set Belt Drive
   1 set CHB Mold
   1 set Paving Block Mold (included I the machine package)

#### EMISSION CONTROL DEVICE (ECD)

#### STACK MONITORING SYSTEM

- Ambient Air Sensor Monitoring System (1 set)
- Stack Sampling part (4 sampling parts each stack)
- Stack Temperature before atmosphere should be less than 100 degrees Celsius

ECC APPLICATION WITH EIS	
PERMIT TO OPERATE	
APPLICATION	
WASTEWATER DISCHARGE	
PERMIT APPLICATION	
DENR REGISTRY ID APPLICATION	

**TOTAL PRICE** 

P70,000,000.00

## **Section VII Technical Specifications**

#### **Notes for Preparing the Technical Specifications**

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

#### Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words "or at least equivalent." References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

## **Technical Specification**

Specification	Statement of Compliance
PYROLYSIS GASIFICATION SYSTEM (DUAL CHAMBERS) Complete w/ Emission Control Device, Automatic Feeding System, Shredder, Wastewater Treatment Plant, Air Pollution Monitoring System, Brick- Making Machine, and Plant Building  Capacity: 3,750 kgs/hr of Residual & Medical Waste  OVER-HEAD GRAB/CLAW MOBILE CRANE COMPLETE WITH ELECTRIC MOTOR DRIVE AND CONTROL ROOM  Type: Single Girder Over Head Crane with control Claw type: Hydraulic Grabber Grab volume: 1.0 cu.m. Grab Capacity: 1.5 tons for heavy materials Lifting Capacity: 3 tons Span: 20 meters Lifting Weight: 10 meters Lifting Weight: 10 meters Lifting Mechanism: Electric Hoist, Single Lifting speed wire rope Control Method: Remote Controller with cabin control Frame Material: High Grade Steel Accessories: Access Ladder Paint: Corrosion Resistant Primer + Epoxy Top Coat Power Supply: 220V, 3phase, 60Hz Quantity: 1 set	[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's unamended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]

#### AND PLASTIC **METAL SHREDDER**

Shredder Type: Double Shaft

Blades

Material: Epoxy Coated Steel

Capacity: 2,000 kgs/hr

Waste to Shred: Medical and Residual Wastes with metals/

Shredded Size: 30-50mm Power: 220V, 3 phase, 60Hz Accessories: Large Feeding

Funnel, Leg support

Safety Features: Emergency Isolator Switch each motor,

Motor

Overload, Motor Alarm Tracker Motor Brand: German or

Japanese brand Quantity: 2 sets

#### FEEDING CONVEYOR FOR **PYROLYSIS GASIFICATION**

Conveyor Type: Metal Hinged Steel Belt or Steel Slat Belt

Capacity: 2000kgs/hr

Frame Material: High Grade

Steel

Belt Material: High Grade Steel Side Wall: Bended Steel @350mm Height Both Sides

Scraper Material: High Grade Steel @ 0.5-0.8m distance Between scraper

Width: 900mm Conveyor minimum

Conveyor Length: 5 meters

minimum

Power: 220V, 3phase, 60Hz Accessories: Feeding Funnel,

Leg Support

Safety Features: Emergency Isolator Switch each motor, Motor overload, Motor Alarm

Tracker

Motor Brand: German orJapanese brand

Quantity: 2 sets

#### **PYROLYSIS GASIFICATION SYSTEM**

(with issued Environmental **Technology Verification ETV** DOST-ITDIfrom which include results of analysis for **Dioxins and Furans**)

Burning Method: Pyrolysis Gasification System

No. of Chambers: Dual Chambers

Fuel: Diesel, Automatic injection with fuel save mode

External Material: Reinforced Chamber with High Temperature Epoxy Coated Steel

Internal Lining: High Temperature Bricks and Casted Cement with design temperature

at 2,000 degree Celsius

Insulation: 50mm HighTemperature Insulating Fiber

Treating Capacity: 1,875 kgs/hour per unit

Burning Temp. : >1,300 degree Celsius

Sensors: High Thermocouple Sensor

1 x Primary Chamber

1 x Secondary Chamber

1 x Stack Pie

Chimney Dim.: 500mm dia. @ 3 meters length from the roof height

Diesel Tank Cap: 800 liters

Fuel line: 1/2" dia. GI Pipe and

**High Pressure Hose** 

Ignition: Automatic Spray

Primary Comb.: 0.45 kW @ 2

units-minimum

Secondary Comb. : 0.45 kW @ 1

unit- minimum

Air Blower: 0.55 kW @ 1 unit-

minimum

Air Chamber: more than 2

seconds

Power: 220V, 3phase, 60Hz

Ash Cleaning: Manual Scraping with ash bin (1st and 2nd

Chamber)

Burning Rate: >98% Efficiency
Bottom Grating: SUS304
Stainless Steel Grade @20mm

Opening

(Removable)

Controller Logic

Controller

With Human-Machine Interface Control complete w/

Alarm Tracker and motor total running hours

Automatic Fuel Injection (ECO, Normal, Optimum Mode)

Automatic Air Blower Control (Constant Pressure Interlock to Pressure Sensor) Accessories: Open and Close Door indicator light & buzzer,

Automatic/motorized Feeding Gate, heavy duty and fully insulated front/side/bottom door, heavy duty screw type door lock, ash collection system

Stack by-pass motorized damper, fuel meter, door alarm, fuel pressure gauge, air blower valve, fuel level gauge & low level alarm, VFD air blower, control access level

Safety Features: Emergency Isolator Switch each motor, Motor Overload, Motor Alarm Tracker

Burner Brand: Italian or equivalent

Quantity: 2 sets

## EMISSION CONTROL DEVICE (ECD) QUENCHER

Type: Venturi complete w/ Dual Micro Sprayer

Chemical Dosing: Automatic complete w/ PVC Sch.80 piping system

Chemical Type: Liquid pH Neutralizer

Chem. Tank Cap. : 1000 liters PE Tank complete w/ Epoxy Coated Skid

Spray Nozzle: SUS316 Grade non-clog, 180 deg spray angel Chamber Material: Stainless

Grade Reinforced Steel

Sensors: High Temperature Type pH Neutralizer Transmitter

Dosing Device: Automatic Control Dosing System

pH Control Range: 7-9
Quantity: 2 sets

## COOLING TOWER & FLUE GAS TREATMENT SYTEM

Chamber type: Reinforced Tower Tank complete w/ high temp epoxy paint Spray type: Non-clog, spiral

spray system

Spray Material: SUS316 Grade Tower Volume: 7.0 cu.m. complete w/ false bottom and

Stiffeners, minimum

Spray Nozzle: SUS316 Grade non-clog, 180 deg spray angle Tank Material: Stainless Grade

Reinforced Steel

Dimension: 1.2m length x 1.2m

width @ 4.8m height

Media: High Temperature, High Surface media with design temperature at 600 degree Celsius

Reservoir Volume: 7 cu.m.

Pump Type: Centrifugal Design

for High Temperature

Capacity: 90 m3/hr @ 45m Head,

minimum

Power: 220V, 3phase, 60Hz

Features: Sight Glass, 1.5" float

valve,drain, manhole

Piping: 6" dia. GI Pipe, valves

and fittings Quantity: 2 sets

#### WASTEWATER TREATMENT SYSTEM

Type: Filter Cloth Filtration

System

Primary Filtration: 50 micron

Filter bag

Secondary Filter: 10 micron

Filter bag

Filtration Capacity: 10m3/hr Pump Type: Centrifugal Pump Pump Capacity: 10m3/hr @ 35

meter head

Pump QTY: 1 duty Filtration Qty: 2 sets

#### AIR BLOWER SYSTEM

Type: Anti-Vibration Centrifugal Belt Drive

Capacity: 10,000 m3/hr @

1,000kPa, minimum

Shell Material: Reinforced Fiberglass, Acid & Alkali

Resistant

Shaft Material: S45C

Belt Type: High Tension Belt V-

Shape

Bearing type: Oil cooled CI

casing, SKF bearing

Rotor Dynamic BalanceL 2.5mm/s grade in line with ISO01940

Fan unit Vibration: 4.5 mm/s level in line with ISO2372

Sensor: Negative Pressure Transmitter

Control: Fully Automatic with VFD to maintain the air pressure of the exhaust system, cooling

down cycle

Quantity: 2 sets + 1 spare

## STACK MONITORING SYSTEM

- Ambient Air Sensor Monitoring System (1 set)
- Stack Sampling part (4 sampling ports each stack)
- Stack Temperature before atmosphere should be less than 100 degrees Celsius

### EMISSION FILTRATION SYSTEM

Type: Electrolysis

Capacity: 10,000 m3/hr,

minimum

Chamber Type: Reinforced Vertical Tower Electrolysis

Chamber Material: Stainless

Steel Grade

Cleaning type: Non-clog, Spiral

Spray System

Spray Material: SUS316 grade Backwash Pump: Centrifugal

Type

Power: 220V, 3phase, 60Hz Features: Automatic System complete w/ Auto Cleaning

Quantity: 2 sets

#### **BRICK MAKING MACHINE**

Mixer type: Semi-wet Concrete Mixer @ 7.5kW Material: Epoxy Coated steel Brick Capacity: 1000 pcs/hr CHB #5 Capacity: 450-600

pcs/hr @ 24 seconds

Main Machine: Mold Vibration

Hand Cart: 2 sets

Machine Weight: 1 ton

Power: 220V, 3phase, 60Hz

Safety Features: Emergency
Isolator Switch each motor,

Motor Overload Quantity: 1 set

#### CONTROL SYSTEM AND FIELD WIRING

Control Panel Type: Standing type of wall mounted

Material: Stainless Steel Grade

Features: Double door with glass front, PLC, & MHI Control, Fuel saving mode, Sequential

operation

Safety: Overload protection each motor, alarm system, logging, running hours, system fault warning

Indicator light: Power, Alarm, Motor RUN/OFF/AUTO, Fault Alarms: Beacon Light complete

w/ Siren

Component Brand: German, Japanese Brand or equivalent

Ouantity: 2 sets

#### **CABLING WORKS:**

Motor Termination: Liquid tight

hose and fittings

Insulation type: GI IMC conduit

pipes and PVC Pipes

Power Supply to Motor: Included Wire type: THHN Stranded

Quantity: 2 lots

#### **BUILDING FOR PYROLYSIS GASIFICATION SYSTEM**

Building Code Area: 600 sq.m. Building Dimension: 20m width x 30m length @ 6m height

Semi-Open Building type: Reinforced H-Beam Structure

Material: Hot Dipped Galvanized Steel

Roof & Cladding Type: Long

Span Rib type

Features: LED Lightings & power outlets

Rooms/Storage: Admin Room / T&B/Isolated Hazardous Waste Storage/400 cu.m. Tipping Floor Pit/ CHB Storage

Flooring: 6" Reinforced Concrete Slab @ 3000 psi

Quantity: 1 set

#### **OPERATION AND MAINTENANCE**

Personnel Type: Highly Trained

Technical

Working hours: 8 hours-1 day

shift

Duration: 6 months

#### **SPARE PARTS**

All mechanical equipment that is being supplied shall have spare parts or service units.

- Overhead Crane 4 pcs Wheel bridge
- Tipping Pit Submersible Pump 1 unit ½" HP Submersible Pump
- Double Shaft Shredder
   1 set Blades and Spaces for Shaft 1
   1 set Blades and Spacers for Shaft 2
- Metal Feeding Conveyor
   1 set Gearbox and Motor
   assembly
- Pyrolysis Gasification
   System
   2 sets Burner assembly
   2 sets Door seal
   1 set Burner Gratings
   6 sets Fuel Filter
- Emission Control Device
   10 sets Spray Nozzle
   2 sets Shaft Seal &
   Bearing for
   Cooling Tower Pump
   1 set Shaft Seal & Bearing
   for

Sludge Pump 1 set Shaft Seal & Bearing for AOP

Recirculation pump
2 sets Shaft Seal &
Bearing for

Electrolysis Backwash Pump

2 sets Shaft Seal & Bearing for

Submersible Pump (Sump Pit)
1 set Filter Cloth for Filter

Press 2 sets Bearing & Belt for

Air Blower 1 unit Air Blower Assembly

Brick Making Machine1 set Belt Drive1 set CHB Mold

1 set Paving Block Mold (included I the machine package)	
ECC APPLICATION WITH EIS PERMIT TO OPERATE APPLICATION WASTEWATER DISCHARGE PERMIT APPLICATION DENR REGISTRY ID APPLICATION	

## **Technical Specifications**

TECHNICAL SPECIFICATIONS			
Item / Service	Maximum Quantity	Technical Specifications / Scope of Work	Statement of Compliance
1			[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution.]

## Section IX. DRAWINGS

(The actual Drawings, including site plans, should be attached in a separate folder.]

Site Plan
 Floor Plans (ground Floor to 5<sup>th</sup> Floor
 Elevation Plans (Front, Left, Right, Rear view)
 Perspective

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during the contract execution.

Bidders are also required as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

# SECTION X BILL OF QUANTITIES

#### **Notes on the Bill of Quantities**

#### **Objectives**

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

#### **Daywork Schedule**

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

#### **Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance,

etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

#### **Signature Box**

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

#### ATTORNEY, FROM INTERNET © SA BABA PO, YUNG SA PBD NATIN

### SECTION X I

# CHECKLIST TECHNICAL AND ELIGIBILITY REQUIREMENTS FINANCIAL REQUIREMENTS

#### **Notes on the Checklist of Technical and Financial Documents**

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

#### CHECKLIST OF ELIGIBILITY & TECHNICAL DOCUMENTS

Item No.	Requirements Checklist	Complying	Non- Complying
	LEGAL DOCUMENTS		
1	PHILGEP\$ CERTIFICATION (PLATINUM)		
1.1	SEC / DTI / CDA CERTFICATION		
1.2	Registration certificate from the SEC (w/ documentary stamp), DTI for Sole Proprietorship, CDA for Cooperatives or any proof such registration as stated in the BDS.  MAYOR'S PERMIT		
	Mayor's permit issued by the City or Municipality where the principal place of business of the prospective bidder is located.		
1.3	TAX CLEARANCE		
	EO 398 specifically requires the submission of Tax Clearance issued by the BIR. It refers to the clearance issued by the Collection Enforcement Division of BIR attesting that the bidder has no outstanding Final Assessment Notice and/or delinquent account.  TECHNICAL DOCUMENTS		
2	STATEMENT OF ALL ON-GOING CONTRACTS		
2			
	The Statement of All Ongoing Contracts shall indicate the following:  (a) name of the contract;  (b) date of the contract;  I contract duration  (d) owner's name and address;  I kinds of Goods;  (F) amount of contract and value of outstanding contracts; and  (G) date of delivery.		
	Statement of the prospective bidder of all its on-going 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. (Sec. 23.1(a)(iv), IRR of RA 9184)		
3	Statement of the prospective bidder of all its on-going government and private contracts, including contracts awarded but not yet started whixh involve design/design and build related contracts  \$TATEMENT OF LARGEST SINGLE COMPLETED CONTRACT (\$LCC)		
	SLCC shall indicate, for each contract, the following:		
	(1) name of the contract; (2) date of the contract; (3) Contract duration; (4) owner's name and address; (5) kinds of Goods; (6) amount of completed contracts, adjusted by the Bidder to current prices using PSA's consumer price index, if necessary for the purpose of meeting the SLCC requirement		
	(7) date of delivery; and (8) end user's acceptance or official receipt(s) or sales invoice* issued for the contract, if completed, which shall be attached to the statements.		
	The prospective bidder should have completed at least two (2) similar contracts and the aggregate contract amounts should be equivalent to at least the percentage of the ABC as required above; and The largest of these similar contracts must be equivalent to at least half of the percentage (50%) of the ABC as required above.		

4	Valid licenses issued by the Professional Regulatory Commission for design professionals and the architects and engineers composing the key personnel	
5	Philippine Contractors Accreditation Board (PCAB) License; <u>or</u> Special PCAB License in case of Joint Ventures; <u>and</u> registration for the type and cost of the contract to be bid. This project:  MEDIUM B; CATEGORY A is required.	
6	Preliminary Conceptual Design Plans	
	FINANCIAL DOCUMENTS	
8	AUDITED FINANCIAL STATEMENT	
9	The prospective bidder's audited financial statements, showing among others, the prospective bidders total and current assets and liabilities <u>"STAMP RECEIVED"</u> by the BIR or its duly accredited and authorized institution, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.( w/documentary Stamp)  NET FINANCIAL CONTRACTING CAPACITY (NOTARIZED)	
10	JOINT VENTURE AGREEMENT ( JVA )	
	If applicable, the JVA in case of the joint venture is already in existence, or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful. Both company should have similar project experience and PCAB General Engineering A.	
	For bidder who did not engage into a JVA, shall still submit Certification of Not in to Joint Venture	
11	BID \$ECURITY ( Any of the following : ) (NOTARIZED)	
	a. Cash or Cashier's/Manager's check issued by a Universal or Commercial Bank (2%)	
	b. Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial	
	Bank; Provided, however, That it shall be confirmed or authenticated by a Universal or	
	Commercial Bank, if issued by a foreign bank. (2%)  c. Surety Bond callable upon demand issued by a surety or insurance company duly	
	certified by the Insurance Commission as authorized to issue such security ( 5%)  d. Bid Securing Declaration ( 120 cd )	
12	OMNIBU\$ \$WORN \$TATEMENT (NOTARIZED)	
	Executed by the bidder, or its duly authorized representative, and shall be in accordance with Section 25.3 of the 2016 IRR of RA 9184	
13	OTHER PROJECT REQUIREMENTS: (In absence of one document below shall be	
	<ol> <li>Original Environmental Technology Verification (ETV) Certificate issued by the DOST with the ETV Reference Number;</li> </ol>	
	2. Emission analysis and TCLP results;	
14	Taxpayer's Identification Number (TIN) or VAT Registration Certificate	
	Authorized Personnel Certification	
16	Organizational Chart for the contract to bid	
17	Statement of Availability of Key Personnel and Equipment	
18	List of Contractor's Key Personnel with Employment Contract(e.g. Project Manager, Project	
	Engineers, Foreman)	
	Professional Experience of key personnel:	

10 years relevant experience as project engineer     10 years relevant experience as electrical engineer     10 years relevant experience as sanitary engineer     10 years relevant experience as mechanical engineer  10 July signed Manpower Utilization Schedule  21 List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements supported by proof of ownership or certification and availability of equipment from lessor/vendor for the duration of the project, as the case may be,  Equipment Capacity Number of Units  Transit Mixer one (1) unit Bagger Mixer one (1) unit Delivery Truck two (2) units Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve  24 Duly signed Construction schedule and S-Curve		• 10 years	relevant experie	nce as structural engineer		
10 years relevant experience as sanitary engineer      10 years relevant experience as mechanical engineer  20 Duly signed Manpower Utilization Schedule  21 List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements supported by proof of ownership or certification and availability of equipment from lessor/vendor for the duration of the project, as the case may be,  Equipment Capacity Number of Units  Transit Mixer one (1) unit Bagger Mixer one (1) unit Delivery Truck two (2) units Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve		10 years relevant experience as project engineer				
10 years relevant experience as mechanical engineer  20 Duly signed Manpower Utilization Schedule  21 List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements supported by proof of ownership or certification and availability of equipment from lessor/vendor for the duration of the project, as the case may be,  Equipment Capacity Number of Units  Transit Mixer one (1) unit Bagger Mixer one (1) unit Delivery Truck two (2) units Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve		• 10 years	relevant experie	nce as electrical engineer		
20 Duly signed Manpower Utilization Schedule  21 List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements supported by proof of ownership or certification and availability of equipment from lessor/vendor for the duration of the project, as the case may be,  Equipment Capacity Number of Units  Transit Mixer one (1) unit Bagger Mixer one (1) unit Delivery Truck two (2) units Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve		• 10 years	relevant experie	nce as sanitary engineer		
21 List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements supported by proof of ownership or certification and availability of equipment from lessor/vendor for the duration of the project, as the case may be,  Equipment Capacity Number of Units  Transit Mixer one (1) unit Bagger Mixer one (1) unit Delivery Truck two (2) units Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve		• 10 years	relevant experie	nce as mechanical engineer		
agreements supported by proof of ownership or certification and availability of equipment from lessor/vendor for the duration of the project, as the case may be,  Equipment Capacity Number of Units  Transit Mixer one (1) unit Bagger Mixer one (1) unit Delivery Truck two (2) units Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve	20	Duly signed Manpo	wer Utilization Sc	nedule		
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Bagger Mixer one (1) unit Delivery Truck two (2) units Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve						
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Boom Truck one (1) unit Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  Duly signed Construction schedule and S-Curve						
Welding Machine two (2) units Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  Duly signed Construction schedule and S-Curve		•				
Acetylene Cutting Outfit one (1) unit Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve				one (1) unit		
Road Roller one (1) unit Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve		-				
Backhoe .75 cu.m one (1) unit  22 Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES) Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve			Outfit			
<ul> <li>Owner's Certificate of Acceptance or Constructors Performance Evaluation System (CPES)         Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;     </li> <li>Duly signed Construction schedule and S-Curve</li> </ul>						
Rating for the procurement of Infrastructure Projects pursuant to Section 23.4.2.5 of the 2016 revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve		Backhoe	.75 cu.m	one (1) unit		
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revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve	22	Owner's Certificate	of Acceptance or	Constructors Performance Evaluation Sy	stem (CPES)	
revised IRR of RA No.9184;  23 Duly signed Construction schedule and S-Curve						
24 Duly signed Narrative Description of Construction Method	23	Duly signed Construction schedule and S-Curve				
	24					
25 Duly signed Construction Safety and Health Program	25					
26 Value Engineering Analysis in the Construction Method	26					
27 Affidavit of Site Inspection	27	Affidavit of Site Insp	pection			

Note: Any missing documents in the above-mentioned checklist is a ground for outright rejection of the bid.

#### **BIDS AND AWARDS COMMITTEE**

ATTY. MARIETTA BELGICA-CLEDERA ENGR. NOEL B. ENCINARES, \$R. Chairperson Vice Chairman

CARLO\$ ANTE JEFFREY P. NAVARRO MARIA CHONA A. RIOCA\$A

Member Member Member

#### CHECKLIST OF FINANCIAL PROPOSAL DOCUMENTS

Item No.	Requirements Checklist	Complying	Non- Complying
	Financial Documents		
1	Original Duly accomplished and signed Financial Bid Form.		
	AMOUNT:		
2	Original of Duly signed Bid Prices in the Bill of Quantities		
	AMOUNT:		
3	Duly accomplished Detailed Estimates Form, including a Summary Sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid		
4	Cash Flow by Quarter		
5	Lump sum bid prices which shall include detailed engineering cost and cost of:  Processing and Application of:  a. Environment Compliance Certificate (ECC) with Environmental Impact Statement (EIS)  b. Permit to Operate (PTO)  c. Wastewater Discharge Permit (WDP)  d. DENR Registry ID Application		
6	Detailed estimates including a summary sheet indicating the unit prices of construction materials		
7	Labor rates and equipment rentals used in coming up with the bid		

Note: Any missing documents in the above-mentioned checklist is a ground for outright rejection of the bid.					
REMARKS: [ ] PASSED [ ] FAILED					
BIDS AND AWARDS COMMITTEE					

ATTY. MARIETTA BELGICA-CLEDERA

Chairperson

ENGR. NOEL B. ENCINARES, \$R.

Vice Chairman

CARLOS ANTE JEFFREY P. NAVARRO MARIA CHONA A. RIOCASA
Member Member Member



