

Republic of the Philippines
Department of Science and Technology
**INDUSTRIAL TECHNOLOGY DEVELOPMENT
INSTITUTE**

DOST Cpd., General Santos Ave., Bicutan, Taguig City
Tel. Nos. : 837-2071 to 82 (DOST Trunklines) Telefax No.: 837-3167



CERTIFICATION
INTERNATIONAL
ISO 9001:2008
CIP/4218/09/02/625

PROJECT : DESIGN AND BUILD PROJECTS FOR THE DOST SEWERAGE TREATMENT PLANT

LOCATION: DOST Compound, Gen. Santos Ave., Bicutan, Taguig City

OWNER : Industrial Technology Development Institute (ITDI)

SUBJECT : BID BULLETIN NO. 1

Date : May 5, 2014

This Bid Bulletin No. 1 is being issued to Bidders for their information and guidance in the preparation of their bids and shall be taken into consideration in their proposal. This bid bulletin will form part of the contract for this project.

1. Governing Rules:

Bidding and contract award for the above project shall be governed by the Revised Implementing Rules and Regulations of RA 9184, 2009 and the Philippine Bidding Documents (PBD), Fourth Edition, December 2010. Any discrepancy between the General Conditions and RA 9184, R.A 9184 shall prevail.

2. Marking and Sealing of Bids

- a. Contents of sealed envelope marked **"ORIGINAL BID"**
Sealed Envelope 1 marked **"Original – Eligibility & Technical Proposal"**
Sealed Envelope 2 marked **"Original – Financial Proposal"**
- b. Contents of sealed envelope marked **"COPY NO. 1"**
Sealed Envelope 1 marked **"Copy No. 1 – Eligibility & Technical Proposal"**
Sealed Envelope 2 marked **"Copy No. 1 – Financial Proposal"**
- c. Contents of sealed envelope marked **"COPY NO. 2"**
Sealed Envelope 1 marked **"Copy No. 2 – Eligibility & Technical Proposal"**
Sealed Envelope 2 marked **"Copy No. 2 – Financial Proposal"**
- d. The sealed outer envelopes marked **"ORIGINAL BID"**, **"COPY NO. 1"** and **"COPY NO. 2"** shall be enclosed in **one single envelope/package**.

Our Business is Industry

Membership:

- General Conference on Weights and Measures (CGPM)
- Asia Pacific Metrology Programme (APMP)
- Asia Pacific Legal Metrology Forum (APLMF)

- e. All envelopes shall contain the following:

PROJECT: DESIGN AND BUILD PROJECTS FOR THE DOST SEWERAGE TREATMENT PLANT

(NAME AND ADDRESS OF BIDDER IN CAPITAL LETTER)

TO: THE INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE (ITDI)

**MS. LYDIA M. ABLAÑA
ITDI-BAC CHAIRMAN-INFRA
Metrology Building, DOST Compound
Bicutan, Taguig City**

"DO NOT OPEN BEFORE: May 30, 2014, 10:30 A.M

3. Bid Proposal shall be in Philippine currency.
4. The financial component shall consist of the following:
 - a. Lump Sum Bid
 - b. Summary of Bid
 - c. Itemized Price Breakdown
 - d. Additive/Deductive Unit PricesAll forms are included in the Bid Documents issued.
5. The bid shall be signed on each and every page by the duly authorized signatory of the bidder. Items with erasures on the bid should bear the initials of the authorized signatory.
6. Bid bonds should be posted in favor of Industrial Technology Development Institute. If other than GSIS, the bid bond should be accompanied with certificate of accreditation from the Insurance Commission. Bid bonds should be submitted with original receipts of payments. Bid security shall be Callable on Demand with a validity period of 120 calendar days.
6. **Opening of Bids - May 30, 2014, 10:30 A.M;** Metrology Conference Room, 2nd Floor Metrology Building, ITDI, Bicutan Taguig City
7. Clarification of Scope:
 - Duration of the project is 122 calendar days which include design and construction
 - For uniformity of bids, cost will be based on the design concept indicated in the bid documents
 - Should there be any alternative design concept it will be discussed with the winning bidder
 - Capacity of tanks will be 80 cu. meter at ITDI and 40 cu. meter at MIRDC
 - Piping works is to collect sewerage and it is not localized because it will come from different places
 - Performance testing must be provided by the contractor. Start-up until commissioning
 - Any excavation done in relation to piping will be restored by the contractor
 - Electric and water consumptions will be charged to contractor
 - Detailed engineering and design will be provided by the contractor
 - Disposal of materials should be outside of ITDI.
 - Reusable materials should be turned over to ITDI, Property Section

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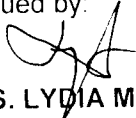
- General Conference on Weights and Measures (CGPM)
- Asia Pacific Metrology Programme (APMP)
- Asia Pacific Legal Metrology Forum (APLMF)

- A certificate of site inspection should be included in the bid documents
- Effluent standards – see attached Annex A
- Typical composition of untreated domestic wastewater standards – see attached Annex B

8. Questions/clarifications not raised during Pre-bid conference

- 8.1 Questions/clarifications should be made in writing, addressed to the BAC Chair-Infra.
- 8.2 In the written query, company name and the project name should be indicated.
- 8.3 Additional bid bulletin, if any, will be issued regarding the matter.

Issued by:



MS. LYDIA M. ABLAÑA
ITDI-BAC Chairman-Infra

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**TABLE 2A - EFFLUENT STANDARDS: Conventional and Other
Pollutants in Protected Waters Category I & II and
in Inland Waters Class C^a**

Parameter	Unit	Protected Waters				Inland Waters Class C	
		Category I (Class AA & SA)		Category II (Class A, B & SB)		OEI	NPI
		OEI	NPI	OEI	NPI		
Color	PCU	(b)	(b)	150	100	200 ^(c)	150 ^(c)
Temperature (max rise in deg Celsius in RBW)	°C rise	(b)	(b)	3	3	3	3
pH (range)		(b)	(b)	6.0-9.0	6.0-9.0	6.0-9.0	6.5-9.0 ✓
COD	mg/L	(b)	(b)	100	60	150	100
Settleable Solids (1-hour)	mg/L	(b)	(b)	0.3	0.3	0.5	0.5
5-Day 20°C BOD	mg/L	(b)	(b)	50	30	80	50
Total Suspended Solids	mg/L	(b)	(b)	70	50	90	70
Total Dissolved Solids	mg/L	(b)	(b)	1,200	1,000	-	-
Surfactants (MBAS)	mg/L	(b)	(b)	5.0	2.0	7.0	5.0
Oil/Grease (Petroleum Ether Extract)	mg/L	(b)	(b)	5.0	5.0	10.0	5.0
Phenolic Substances as Phenols	mg/L	(b)	(b)	0.1	0.05	0.5	0.1
Total Coliforms	MPN/ 100mL	(b)	(b)	5,000	3,000	15,000	10,000

TABLE 3-16
Typical composition of untreated domestic wastewater

Contaminants	Unit	Concentration		
		Weak	Medium	Strong
Solids, total (TS)	mg/L	350	720	1200
Dissolved, total (TDS)	mg/L	250	500	850
Fixed	mg/L	145	300	525
Volatile	mg/L	105	200	325
Suspended solids (SS)	mg/L	100	220	350
Fixed	mg/L	20	55	75
Volatile	mg/L	80	165	275
Settleable solids	mL/L	5	10	20
Biochemical oxygen demand, mg/L:				
5-day, 20°C (BOD ₅ , 20°C)	mg/L	110	220	400
Total organic carbon (TOC)	mg/L	80	160	290
Chemical oxygen demand (COD)	mg/L	250	500	1000
Nitrogen (total as N)	mg/L	20	40	85
Organic	mg/L	8	15	35
Free ammonia	mg/L	12	25	50
Nitrites	mg/L	0	0	0
Nitrates	mg/L	0	0	0
Phosphorus (total as P)	mg/L	4	8	15
Organic	mg/L	1	3	5
Inorganic	mg/L	3	5	10
Chlorides ^a	mg/L	30	50	100
Sulfate ^a	mg/L	20	30	50
Alkalinity (as CaCO ₃)	mg/L	50	100	200
Grease	mg/L	50	100	150
Total coliform ^b	no/100 mL	10 ⁶ -10 ⁷	10 ⁷ -10 ⁸	10 ⁷ -10 ⁹
Volatile organic compounds (VOCs)	µg/L	<100	100-400	>400

^a Values should be increased by amount present in domestic water supply.

^b See Table 3-18 for typical values for other microorganisms.

Note: 1.8(°C) + 32 = °F.

Some organisms (shigella, helminth eggs, protozoa cysts) are almost never looked for in a routine analysis. Great care should be exercised when reviewing reported virus values. In recent years, refinements in virus detection and enumeration methods have rendered most early results suspect. Thus, the date of the study is almost as important as the reported concentration values.

Need for Specialized Analyses

In general, the constituents reported in Table 3-16 are those that are analyzed more or less routinely. In the past, it was believed that these constituents were sufficient