

PROJECT : SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE (WDXRF) SPECTROMETER, GAS CHROMATOGRAPHY SYSTEM W/ FID, ECD, NPD, POWER GENERATOR AND LABORATORY FURNITURE & FIXTURE

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

OWNER : Industrial Technology Development Institute (ITDI)

SUBJECT : BID BULLETIN NO. 1

Date : November 16, 2017

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 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. The sealed outer envelopes marked "**ORIGINAL BID**" and "**COPY NO. 1**" shall be enclosed in **one single envelope/package**.
- d. All envelopes shall contain the following:

<p>PROJECT: (NAME OF THE PROJECT)</p> <p>(NAME AND ADDRESS OF BIDDER IN CAPITAL LETTER)</p> <p>TO: THE INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE (ITDI)</p> <p>DR. DIANA L. IGNACIO ITDI-BAC CHAIRPERSON Metrology Building, DOST Compound Bicutan, Taguig City "DO NOT OPEN BEFORE: (Stipulated Date and Time of Opening)"</p>
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3. Items to be considered in the preparation of Bid

3.1 **Bid Proposal** shall be in Philippine currency.

3.2 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.

3.3 Bidders shall submit a Bid Securing Declaration OR at least one (1) other Bid Security, the amount of which shall not be less than the required percentage of the ABC in accordance with the following schedule:

Forms of bid Security	Amount of Bid Security (Not less than to Percentage of the ABC)
a) Cash or Cashier's/manager's check issued by a Universal or Commercial Bank	Two percent (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	
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	Five percent (5%)

3.4 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.

3.5 To guarantee the faithful performance by the winning bidder of its obligations under the contract, it shall post performance security taken from the categories below the amount of which shall not be less than the percentage of the total contract price in accordance with the following schedule:

Forms of Performance Security	Amount of Performance Security (Not be less than the Percentage of the Total Contract Price)
a) Cash or Cashier's/manager's check issued by a Universal or Commercial Bank	Goods and Consulting Services - Five Percent (5%)
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	
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	Thirty percent (30%)

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4. Submission of Bids – November 20, 2017

Wavelength Dispersive X-Ray Fluorescence (WDXRF)	-	8:30 A.M - 8:45 A.M
GC with FID, ECD, NPD	-	11:00 A.M. – 11:15 A.M
Power Generator	-	2:00 P.M – 2:15 P.M
Laboratory Furniture and Fixture	-	2:30 P.M. – 2:45 P.M.

Late bids shall not be accepted

5. Opening of Bids – November 20, 2017

Wavelength Dispersive X-Ray Fluorescence (WDXRF)	-	9:00 A.M.
GC with FID, ECD, NPD	-	11:30 A.M.
Power Generator	-	2:30 P.M.
Laboratory Furniture and Fixture	-	3:00 P.M.

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

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

7. Minutes of the Meeting is available upon request

8. Technical Specification:

**GAS CHROMATOGRAPHY SYSTEM WITH FLAME IONIZATION DETECTOR,
ELECTRON CAPTURE DETECTOR AND NITROGEN PHOPHOROUS DETECTOR**

Notice Type: Invitation to Bid

WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE (WDXRF) SPECTROMETER

Specifications:

- o. Capable of detecting trace elements in liquid samples at ppb level

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POWER GENERATOR

a. ENGINE SPECIFICATIONS

Cylinder /Arrangement	6/ L
Displacement	8.3 L or larger
Bore and Stroke	114 mm×135 mm or larger
Compression ratio	18 : 1 or larger
Rated RPM	1800 RPM
Max. stand by power at rated RPM	210 KW or larger
Governor : type	Electronic

b. ALTERNATOR SPECIFICATIONS

Number of phase power	3
Factor (Cos Phi)	0.8
Pole : number	4
Bearing : number	1 or more than
Coupling	Direct
Exciter type	Brushless SHUNT
Insulation : class , temperature rise	H / H
protection	IP23 or better

c. Additional Information:

c.1 Generator Specifications:

- 100% Brand New and Imported
- 250 kVA (200 kW)
- 230 V, 3 phase, 60 Hertz
- Standby application
- Diesel fuel
- OEM (Original-Equipment-Manufacturer) Engine
 - See engine specifications
 - Provide the OEM Certificate
- OEM Alternator
 - See alternator specifications
 - Provide the OEM Certificate
- Original Controller (Digital)
 - Preferably made in UK, US or Japan
- Silent type

c.2 Automatic-Transfer-Switch (ATS): 800 A, 230 V, 3 phase

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Note: The generator set should be tested using a load bank prior to its installation to confirm its real capacity. Testing period is one-hour inclusion of 100% loading in 15 minutes. To provide a Philippine Consulate Certificate where the names of the manufacturer and its Philippine distributor are specified.

c.3 At Power House

- Removal of existing/defective 313 KVA in the generator house and place nearby. Restoration (Civil works) of all affected areas.
- Installation of the brand new 250 KVA generator inside the power house.
- Replace of fuel lines (generator skid base to fuel-day tank) from PVC pipe to metal pipe;
- Retrofit the power house for additional intake of fresh air. To supply and install metal louver where area should be twice as the area of the radiator core. Location should be adjacent to the entrance door.
- Supply and installation of hot-air duct. Area should be the area of the radiator core or larger.
- Supply and installation of muffler extension pipe.
- Re-use the existing breaker and cables at the power house. If insufficient, the winning bidder should provide.
- Repaint the power house interior walls and louver door.

- Replace brand new fluorescent lamps.

c.4 At Electrical Room (2nd Floor, ITDI Metrology Building)

- Replace the existing Manual-Transfer-Switch (MTS) by brand new Automatic-Transfer-Switch (ATS): 800 A, 230 V, 3-phase
- Remove the existing MTS (including enclosure) and replaced by the brand new ATS (including enclosure: Free-stand).
- Re-use the existing MTS cables to the ATS. If length is insufficient, the winning bidder should provide.
- The normal side of ATS should be tap to the load side of the existing 3,000 A Main-Circuit-Breaker (MCB). Approximate radius distance of MCB to ATS is 3.5 meters.


Note: There are existing 2,500 A Circuit Breaker (CB) and 630 A CB to be re-used which tapping is under the new 800 A ATS.

- Inclusion of rough-in of wires and conduits for the remote/start contact of the ATS and battery charger from power house to Electrical Room located in 2nd floor of the building.
- Testing and commissioning of the generator set is included.

LABORATORY FURNITURE & FIXTURE

1. 19mm thick solid/homogeneous, acid, heat and flame resistant epoxy resin top or better and splashboard top black (US or Europe made);
2. 1-acid resistant epoxy resin or better sink bowl complete with traps and drain fittings (US or Europe made);
3. 1-acid resistant epoxy resin or better pegboard with acid resistant polypropylene pegstick (US or Europe made);
4. 1 powder coated gooseneck water faucet (US or Europe made);
5. Not to include : Passes NASA standards (ASTM-E-595-06), NSF/ANSI 51 certifications, Laboratory grade certifications from Scientific Certification Systems

Issued by:


DR. DIANA L. IGNACIO
Chairperson, ITDI-BAC

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