



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  
<http://www.itdi.dost.gov.ph>

**PROJECT :** SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF 1 LOT DYNAMIC SPECTROSCOPY WITH ZETA SIZER, 1 LOT LASER DECAPSULATION, AND 1 LOT GAS CHROMATOGRAPHY-MASS SPECTROMETER AND ACCESSORIES

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

**OWNER :** Industrial Technology Development Institute (ITDI)

**SUBJECT :** BID BULLETIN NO. 1

**Date :** August 22, 2018

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), Fifth Edition, October 2016. 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:

**PROJECT: (NAME OF THE PROJECT)**

**(NAME AND ADDRESS OF BIDDER IN CAPITAL LETTER)**

**TO: THE INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE (ITDI)**

**DR. DIANA L. IGNACIO**

**ITDI-BAC CHAIRPERSON**

**Metrology Building, DOST Compound**

**Bicutan, Taguig City**

**"DO NOT OPEN BEFORE: (Stipulated Date and Time of Opening)**

### 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<br>(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<br>(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 -<br>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%)  |

### 4. Submission of Bids – August 29, 2018, 8:30 A.M. – 8:45 A.M.

1 lot Dynamic Spectroscopy with Zeta Sizer

1 lot Laser Decapsulation

1 lot Gas Chromatography-Mass Spectrometer and Accessories

*Late bids shall not be accepted*

### 5. Opening of Bids – August 29, 2018, 9:00 A.M.

1 lot Dynamic Spectroscopy with Zeta Sizer

1 lot Laser Decapsulation

1 lot Gas Chromatography-Mass Spectrometer and Accessories



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:

**Dynamic Spectroscopy with Zeta Sizer**

- a. Zeta Potential Measurement: 2.0nm-100um diameter range;  
-Electrophoretic Range: -200 to +200mV **or better**
- b. Particle Size Measurement accuracy: Measurement accuracy of  $\pm 2\%$  of NIST traceable (or equivalent) polystyrene latex 20nm – 100 nm spheres and other particle standards, proteins or colloidal gold solution 2 nm – 20 nm; 100um particle size standard (not including variation in the standard particles themselves **or equivalent, preferably covering the size measurement capability of a)DLS/Particle sizer: 0.15nm – 4000 nm radius range and b)Zeta sizer: 2.0nm – 100 um diameter range;**
- c. Size Determination  
DLS Measurement Accuracy: ISO 22412 Compliant;
- d. Sample Holder and Accessories  
**Line 1** – Area kit KC Mark: Electrical surge prevention accessory or better;  
**Line 7** – 1 lot Standard samples for Zeta Measurement (3ml x 10 BtIs) (includes the following: Ludox TM-50; Zeta Potential Negative Transfer standard (Carboxylated polystyrene latex dispersed in pH 9.22 buffer); NIST-SRM 1980 – Positive Electrophoretic (+ $\mu$ E) Mobility Standards (NIST site or from Igcstandards); 10 mM Phosphate buffer (PB) at pH 7.4 **or equivalent preferably complete/applicable to proposed machine.**  
**Line 8** - 1 set Zeta Potential Dip Cell for Organic Solvent with 50 pcs Gold Coating Electrodes and Teflon Lid-0.1 ml.  
**Line 11** -1 lot 1 bottle each of the following particle measurement standard materials – 2nm, 5nm, 20nm, 100nm latex standards/protein/colloidal gold **or equivalent preferably complete/applicable to proposed machine.**
- e. Instrument Specifications  
-Detectors: Photomultiplier tubes (PMT) **or equivalent**
- f. Country of origin: made in US, Europe **or Japan;**

**Laser Decapsulation**

- a. Laser Source  
Power:  $\geq 20W$ ;  
Guaranteed life: 10,000 hours or better.
- b. Sample Manipulator  
Motorized z-axis or adjustable z-axis source with the capability of auto focus;  
Included sample jig.


**Gas Chromatography-Mass Spectrometer with Accessories**

- a. Linear Dynamic Range:  $\geq 10^6$  dependent on acquisition rate;
- b. Built-in buttons/keypads with screen that will be used for all instrument function set-up and monitoring preferably with troubleshooting capabilities;

- c. Complete PC unit
  - 220V, 60Hz
  - Intel core i5 or better
  - with 8GB RAM and 1 terabyte hard drive or higher
  - mouse, keyboard, 20" LCD monitor or larger
- Printer – print-scan-copy
- d. Pneumatic program rates: 0-100.0 psi/min, 0-100.0mL/min, 0-200.0 cm/sec, or ballistic or **better**;
- e. Multipurpose Sampler (with liquid and headspace sampler) is acceptable, provided, a Trap Sampler is included;
- f. Two (2) pieces GCMS capillary column for methamphetamine HCl samples and related compounds (low bleed);
- g. Mass Spectrometer
  - Mass Range: 1.0  $\geq$  1000 amu;
- h. Programmable Split/Splitless Capillary Injector
  - Standard Capillary Split/Splitless Injector Starter Kit (2-mm i.d. quartz liner, 4-mm i.d. quartz liner, silicone o-rings ( $\geq$ 10), Thermogreen septa ( $\geq$ 50), 0.5-mm graphite ferrules ( $\geq$ 10), 0.8-mm graphite ferrules ( $\geq$ 10), 1/16-inch stainless steel nuts ( $\geq$ 5), untreated quartz wool, packing rod, wafer scribes ( $\geq$ 10);
- i. Headspace Trap Sampler
  - Carbopack C for Headspace Trap application (1 unit);
  - Standard Headspace Kit ( $\geq$ 1000 vials, 2 sets of septa, each with aluminum caps and star springs;  $\geq$ 200 PTFE coated butyl tuber septa;  $\geq$ 200 PTFE coated silicon rubber septa; hand crimper; pressure gauge with needle for vials, two needle seal assemblies,  $\geq$ 10 O-rings;
  - Books for Static and Dynamic Headspace Gas Chromatography Theory and Practice preferably by B. Kolb and L.S. Ettre;
- j. Add-Ons
  - Standard Autosampler Starter Kit (must include: amber ( $\geq$ 1000 pcs) and clear ( $\geq$ 1000 pcs) sample vial sets with caps and septa);
- k. Equipment Table.

\*Only those technical specifications indicated herein will be changed, those that are not mentioned will be retained as indicated in Section VII of the Bidding Documents.

Issued by:

  
 DR/ DIANA L. IGNACIO  
 Chairperson, ITDI-BAC