



**SUPPLEMENTAL/BID BULLETIN NO. 2**

**Various Technical and Scientific Equipment for ELSS and ERS**

**ITB No. EMB-GOODS-NCB-2018-0003**

This clarification No. 5682188-2 is issued to clarify/amend item/s in the issued notice posted in PhilGEPS with reference No. 5682188. This Bid Bulletin shall form an integral part of the bid documents.

Name of Project : **Various Technical and Scientific Equipment for ELSS and ERS**

Date : October 18, 2018

Announcing the amendments/correction on the issued bidding documents:

	<b>Old Schedule</b>	<b>New Schedule</b>
	<b>Deadline for Submission of Bidding Documents:</b> October 22, 2018, 9:00AM	<b>Deadline for Submission of Bidding Documents:</b> October 29, 2018, 9:00AM
	<b>Opening of Bids:</b> October 22, 2018, 10:00AM	<b>Opening of Bids:</b> October 29, 2018, 10:00AM
<b>Item No.</b>	<b>Old Technical Specifications</b>	<b>New Technical Specifications</b>
6	Dehumidifier	Additional Requirement: - Moisture capacity – 30L/day or better
11	Freeze Drier - Includes: Standard stoppering chamber. Cylindrical methacrylate with 4 heated shelves and 4 trays, Drip tray, Monitoring Software and laptop included	Freeze Drier - Includes: Standard stoppering chamber. Cylindrical methacrylate with 3 or 4 heated shelves and 3 or 4 trays, Drip tray, Monitoring Software and laptop included
14	Ion Chromatograph - Must contain any metal part in the sample, eluent and reagent flow path. - Column and suppressor for the determination of metal ions.	Ion Chromatograph - Must not contain any metal part in the sample, eluent and reagent flow path. - Column and suppressor for the determination of metal ions specifically chromium, hexavalent (Cr <sup>6+</sup> ).

	<ul style="list-style-type: none"> <li>- Built in degasser</li> <li>- Reagent free</li> <li>- Dongle</li> </ul> <p>Inquiry from the supplier dated October 16, 2018</p> <ul style="list-style-type: none"> <li>- Supports all ion chromatography and reagent free ion chromatography system applications</li> </ul>	<ul style="list-style-type: none"> <li>- Built in degasser or plug-in degasser</li> <li>- Reagent free or equivalent</li> <li>- Dongle or electronic license</li> </ul> <ul style="list-style-type: none"> <li>- Supports all ion chromatography and reagent free ion chromatography system applications or equivalent technique is accepted.</li> </ul>
16	<p>Low Temperature Freezer</p> <ul style="list-style-type: none"> <li>- Controller &amp; Display: Touch screen LCD</li> <li>- External Material : Powder coated steel plate</li> </ul>	<p>Low Temperature Freezer</p> <ul style="list-style-type: none"> <li>- Controller &amp; Display: Touch screen LCD or Key Pad</li> <li>- External Material : Powder coated steel plate or antimicrobial powder coated steel plate</li> </ul>
17	<p>Mercury Analyzer, Cold Vapor Atomic Absorption Technique</p> <ul style="list-style-type: none"> <li>- Auto Sampler with sample rack/tray, sampling and dosing tube, test tube, bubbler tube and other operational accessories needed.</li> </ul> <ul style="list-style-type: none"> <li>- Fully automated mercury analyzer based on cold vapor atomic absorption measurement principle and reducing vaporization with open air-supply measurement method</li> </ul>	<p>Mercury Analyzer, Cold Vapor Atomic Absorption Technique</p> <ul style="list-style-type: none"> <li>- Number of Sample Container/Test Tube: Complementing the maximum number of samples in auto sampler</li> <li>- Number of Bubbler: 5 pcs</li> <li>- Dispensing/Dosing Tube: 2 pcs for each dispensed reagents with tube pump</li> <li>- Measurement method: Reducing vaporization with open air-supply or equivalent (Peak height measuring and integration measuring selectable)</li> </ul>
20	<p>pH meter</p> <ul style="list-style-type: none"> <li>- Log Function: Manual, AUTO-READ™, timed interval, single timed reading</li> <li>- Orion Star Stirrer Probe Ports: 2</li> <li>- Adjustable ISO Point: Yes</li> <li>- Adjustable ISO Point: Yes</li> <li>- Calibration Features: Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range</li> <li>- Temperature Range: -5 to 105 °C, 23 to 221 °F Resolution: 0.1 Relative Accuracy: ±0.1</li> </ul>	<p>pH meter</p> <ul style="list-style-type: none"> <li>- Log Function: Manual or Automatic, AUTO-READ, timed interval, single timed reading</li> <li>- Stirrer Probe Ports: 2</li> <li>- Adjustable ISO Point: Yes or equivalent</li> <li>- Adjustable ISO Point: Yes or equivalent Calibration Features: Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range</li> <li>- Resolution: 0.1 Relative Accuracy: ±0.1</li> </ul>

21	Potentiometric Titrator (Auto Titrator)  - Inquiry from the supplier: - For the wavelength range to be adjusted to 190-1100nm from 185-1100nm; the range 185-1100nm is a lock out feature for a specific brand and there is no method analysis at this range	Additional Requirement: - For rainwater, lake water, and stream water samples - Capable of acid/base titrations  Wavelength range: 190-1100 nm
35	Water Quality Checker - Data logger for easier transfer and saving of on-site data/measurements and software installer	Additional Requirement: - Data transfer: Preferably through USB and/or Android App.  - Cable length: 10 meters
	Delivery Period: 60 calendar days	Delivery Period: 90 calendar days

**Noted: To all items**

- To include installation and testing: **certificate of calibration.**

**Equipment Guaranty and Warranty:**

- Supplier must have a Certificate of Exclusive or Authorized Distributorship from the manufacturer to guaranty and warrant the after sale support of the equipment.
- Equipment Warranty for 24 months for service and 12 months on parts from the date of acceptance by the end-user.

**Training:**

- To conduct training for proper use and operation upon installation and commissioning to be conducted on customer site.
- Supplier must conduct validation services including Installation Qualification (IQ), Operational Qualification (OQ), and Performance Qualification (PQ) protocols development and execution on selected items indicated on the technical specifications.

For guidance and information of all concerned.

**(Sgd.) MS. CONSOLACION P. CRISOSTOMO**  
BAC Vice-Chairperson

Received by the Bidder:

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Date: \_\_\_\_\_