



SUPPLEMENTAL/BID BULLETIN NO. 1

Various Technical and Scientific Equipment for ELSS and ERS

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

This clarification No. 5682188-1 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 12, 2018

Announcing the amendments/correction on the issued bidding documents:

Old Technical Specifications	New Technical Specifications
Dehumidifier	Additional Requirement: - Moisture capacity - 30L/day or better
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
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 ⁶⁺).
Low Temperature Freezer - Controller & Display: Touch screen LCD	Low Temperature Freezer - Controller & Display: Touch screen LCD or Key Pad
Mercury Analyzer, Cold Vapor Atomic Absorption Technique - Auto Sampler with sample rack/tray, sampling and dosing tube, test tube, bubbler tube and other operational accessories needed. - Fully automated mercury analyzer based on cold vapor atomic absorption measurement principle and reducing vaporization with open air-supply measurement method.	Mercury Analyzer, Cold Vapor Atomic Absorption Technique - Number of Sample Container/Test Tube: Complementing the maximum number of samples in auto sampler - Number of Bubbler: 5 pcs - Dispensing/Dosing Tube: 2 pcs for each dispensed reagents with tube pump - Measurement method: Reducing vaporization with open air-supply or equivalent (Peak height measuring and integration measuring selectable)

<p>pH meter</p> <ul style="list-style-type: none"> - Log Function: Manual, AUTO-READ™, timed interval, single timed reading - Orion Star Stirrer Probe Ports: 2 - Adjustable ISO Point: Yes - Adjustable ISO Point: Yes Calibration Features: Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range - Temperature Range: -5 to 105 °C, 23 to 221 °F Resolution: 0.1 Relative Accuracy: ±0.1 	<p>pH meter</p> <ul style="list-style-type: none"> - Log Function: Manual or Automatic, AUTO-READ, timed interval, single timed reading - Stirrer Probe Ports: 2 - Adjustable ISO Point: Yes or equivalent - Adjustable ISO Point: Yes or equivalent Calibration Features: Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range - Resolution: 0.1 Relative Accuracy: ±0.1
<p>Potentiometric Titrator (Auto Titrator)</p> <ul style="list-style-type: none"> - 	<p>Additional Requirement:</p> <ul style="list-style-type: none"> - For rainwater, lake water, and stream water samples - Capable of acid/base titrations
<p>Inquiry from the supplier:</p> <ul style="list-style-type: none"> - For the wavelength range to be adjusted to 190-1100nm from 185-1100nm; the range 185-1110nm is a lock out feature for a specific brand and there is no method analysis at this range 	<p>Wavelength range: 190-1100 nm</p>
<p>Water Quality Checker</p> <ul style="list-style-type: none"> - Data logger for easier transfer and saving of on-site data/measurements and software installer 	<p>Additional Requirement:</p> <ul style="list-style-type: none"> - Data transfer: Preferably through USB and/or Android App. - Cable length: 10 meters

For guidance and information of all concerned.

(SGD.) MS. CONSOLACION P. CRISOSTOMO
BAC Vice-Chairperson

Received by the Bidder:

Date: _____