



**SUPPLEMENTAL/BID BULLETIN**  
**ADDENDUM NO. 19-003 (Goods)**

This Addendum No. **19-003 (Goods)** is issued to modify or amend items in the Bid Documents – with Solicitation No. 2019-01-005 which was posted in the PHILGEPS with Reference No. 5937067. This shall form an integral part of the Bid Documents.

Name of Project : Procurement for the Supply and Delivery of 1 UNIT ION CHROMATOGRAPH  
 EMB-NCB-GOODS-05-2019

**TECHNICAL SPECIFICATIONS (page 68-69):**

Old	New
Ion Chromatograph -metal free IC system -Material: polyurethane hard foam without CFCs, fire class V0 -Operating pressure range: 0-50 MPa (500 bar) high pressure pump -electronic leak sensor -operation: ambient temperature: 5-45°C humidity: 20-80% relative humidity -led power display -elluent degasser: fluoropolymer; no restriction to resistance of solvents -high pressure pump: Serial dual-piston pump; Intelligent pump head recognition; Chemically inert; Metal-free pump heads; Self-optimizing flow and pressure -pump flow rate: 0.00-20.0 mL/min with flow increment of 1 µL/min -pump pressure range: 0-50.0 MPa (0-500 bar) -pump head pressure range: 0-35.0 MPa (0-350 bar) -pump Automatic shutdown upon reaching the pressure limit values max: Adjustable from 0.1-50 MPa (1-500 bar) min: Adjustable from 0-49 MPa (0-490 bar) -injection valve: actuator time: 100ms max operating pressure: 35 MPa -Column heater: temp. Range: 0- 80 °C, in increments of 0.1 °C ± 0.2 °C	Ion Chromatograph -metal free IC system -Material: polyurethane hard foam without CFCs, fire class V0 -Operating pressure range: 0-50 MPa (500 bar) high pressure pump -electronic leak sensor -operation: ambient temperature: 5-45°C humidity: 20-80% relative humidity -led power display -elluent degasser: fluoropolymer; no restriction to resistance of solvents -high pressure pump: Serial dual-piston pump; Intelligent pump head recognition; Chemically inert; Metal-free pump heads; Self-optimizing flow and pressure -pump flow rate: 0.00-20.0 mL/min with flow increment of 1 µL/min -pump head pressure range: 0-35.0 MPa (0-350 bar) -pump Automatic shutdown upon reaching the pressure limit values max: Adjustable from 0.1-50 MPa (1-500 bar) min: Adjustable from 0-49 MPa (0-490 bar) -injection valve: actuator time: 100ms max operating pressure: 35 MPa -Column heater: temp. Range: 0- 80 °C, in increments of 0.1 °C ± 0.2 °C

<p>Heating up time &lt; 30 minutes from 20 to 40 °C</p> <ul style="list-style-type: none"> <li>-peristaltic pump: 2-channel</li> <li>Rotational speed 0-42 rpm in 7 stages at 6 rpm.</li> <li>Pumping properties: 0.3 mL/min at 18 rpm</li> <li>-can be connected to a computer and a printer</li> <li>-with Ion Chromatography software</li> <li>-with auto sampler, adapter sleeve, rotor, suppressor</li> <li>-inclusions: <ul style="list-style-type: none"> <li>1 printer</li> <li>1 desktop computer</li> <li>1 AVR</li> </ul> </li> <li>-includes aftersales, 1 year warranty on services</li> <li>-includes training (local/abroad)</li> </ul> <p>*Note: suppliers must be exclusive distributor</p>	<p>Heating up time &lt; 30 minutes from 20 to 40 °C</p> <ul style="list-style-type: none"> <li>-peristaltic pump: 2-channel</li> <li>Rotational speed 0-42 rpm in 7 stages at 6 rpm.</li> <li>Pumping properties: 0.3 mL/min at 18 rpm</li> <li>-can be connected to a computer and a printer</li> <li>-with Ion Chromatography software</li> <li>-with auto sampler, adapter sleeve, rotor, suppressor</li> <li>-inclusions: <ul style="list-style-type: none"> <li>1 printer</li> <li>1 desktop computer</li> <li>1 AVR</li> </ul> </li> <li>-includes aftersales, 1 year warranty on services</li> <li>-includes training (local) during installation</li> <li>-includes training (abroad) for atleast 2 persons</li> </ul> <p><b>Additional specifications:</b></p> <ul style="list-style-type: none"> <li>-analysis is for anions (fluorine, chlorine, nitrates and sulfates)</li> <li>- additional column consumable (1 batch of extra consumables)</li> </ul> <p>*Note: suppliers must have a certificate of distributorship with aftersales</p>
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For guidance and information of all concerned.

  
**ENGR. MA. CORAZON G. DACUYAN**  
 BAC Chairperson

Received by the Bidder:

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