



Republic of the Philippines  
**PROCUREMENT DEPARTMENT**  
Quezon City Government



PO Number **2310142**

**Purchase Order** Date: **NOV 17 2023**

Procuring Unit	: CLIMATE CHANGE AND ENVIRONMENTAL SUSTAINABILITY DEPARTMENT	Project Number	:CLIMATE-23-EHSE-1265
Company Name	: PREVENTIVE ENVIRONMENTAL MANAGEMENT SOLUTIONS (PEMS) TECHNOLOGIES, INC.	Mode of Procurement	:Public Bidding
Address	: 3rd Floor Hizon Bldg. #29 Quezon Ave. Quezon City	Resolution No.	:23-PB-791
Business Type	: Corporation Registration #CS201120646	TIN Number	:008-168-966-000
		Contact Number	:02 77886178

Sir/Madam:

Please furnish this office the following articles subject to the terms and conditions contained here

**Place of Delivery :** Upon end-user's instruction subject to proper coordination with CGSD  
**Delivery Schedule** One Hundred Twenty (120) Calendar Days  
**Payment Term :** Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
1	<p>e) Standby and emergency in-house personnel to immediately conduct service maintenance or troubleshoot the AQM sensors to mitigate loss operation time;</p> <p>f) Standby, ready-to-deploy AQM sensors, of the same specification, at the expense of the Service Provider, in times of prolonged downtime of the AQM sensor;</p> <p>g) Minimum of one (1) year warranty period which shall cover removal, replacement, or repair of the non-reference air quality monitoring sensors and accessories.</p> <p><b>NON-REFERENCE AIR QUALITY MONITORING SENSORS (CLARITY)</b></p> <p>-The air quality monitoring equipment should be able to measure the following pollutants, whether separate or in simultaneous capacity to measure the pollutants:</p> <p>PM2.5 and NO2 Sensors (10 units)</p> <p>Pollutant (Mandatory)  Range  Detection Limit  Remarks</p> <p>·Particulate matter with diameter ≤ 2.5 micrometers (PM2.5)  0 – 2,000 µg/m3 (or higher)  1 µg/m3  Must have (a) a built-in drier to address effects of humidity (for medium-cost sensors) or (b) documented approaches for correction for environmental variables that influence response in high humidity settings (for low-cost sensors).</p> <p>·Nitrogen dioxide (NO2)  0 - 1,000 ppb (0-2,000 µg/m3)  5 ppb  -</p> <p>-With one (1) year license subscription period to access the dashboard and manage remotely the collected air quality data.</p> <p>- Technical support (i.e. service maintenance, troubleshooting, etc.) for the sensor and its dashboard including free software version upgrades for twelve (12) months.</p>	Unit	10	180,000.00	1,800,000.00

**MA. JOSEFINA G. BELMONTE**  
City Mayor

**REYNALDO S. TEJADA**  
Signature Over Printed Name of Supplier / Date  
11-20-23

**Funds Available:**

**RUBY G. MANANGU**  
City Accountant

**Approved Budget for the Contract : 1,940,000.00**

**OBR : 100 - 2023-11 - 11701**





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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	<p>SUPPLY AND DELIVERY OF CONTINUOUS NON-REFERENCE (LOW-TO-MEDIUM COST) AIR QUALITY MONITORING SENSORS INCLUDING CALIBRATION AND MAINTENANCE</p> <p>Project Scope of Work</p> <ol style="list-style-type: none"><li>1. Collaborate with the Quezon City CCESD regarding the siting requirements and installation of the AQM sensors as well as the development of a Quality Assurance and Quality Check (QA/QC) protocol;</li><li>2. Supply, deliver, calibrate and maintain the AQM sensors in accordance with the specifications provided (Annex A – Technical Specifications of the AQM Sensors);</li><li>3. Conduct necessary capacity building activities for Quezon City personnel;</li><li>4. Provide the following for one (1) year:<ol style="list-style-type: none"><li>a) A cloud-based Air Quality Data Acquisition and Handling System (AQ DAHS), with an activated subscription complete with administrator-level account credentials to the Quezon City CCESD, that is capable of collecting and transmitting continuous, automated, and real-time and averaged data over a given period, with minimum sampling average of 1 minute to 5 minutes for each measured parameter.</li><li>b) Submit air quality monitoring data for PM2.5, NO2, and meteorological data with at least 75% Data Capture Rate.</li><li>c) Monthly report disclosing the frequency of maintenance conducted, calibration undertaken, precision test, and corrective measures implemented, among others.</li><li>d) All operational expenses relative to the operation and maintenance of the AQM sensors, including but not limited to the following expenses: internet/mobile data bills, batteries, consumables, etc.;</li></ol></li></ol>				

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**Payment Term :** Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
2	<p>AUTOMATED WEATHER STATION (DAVIS)</p> <p>The equipment should be able to measure the following parameters:</p> <p>Meteorological Sensors (1 unit)</p> <p>Meteorological parameters (Mandatory)  Range  Detection Limit</p> <p>·Temperature -10°C to 50°C 0.1°C</p> <p>·Relative humidity 0% to 100% 1%</p> <p>·Wind speed 0 to 50 m/s 0.1 m/s</p> <p>·Wind direction 0° to 359°  0.5°</p> <p>·Rainfall - 0.2 mm</p> <p>The following meteorological parameters can also be part of the monitoring:</p> <p>Meteorological parameters (Non-mandatory)  Range  Detection Limit</p> <p>·Atmospheric pressure 850 to 1200 mbar 0.1 mbar</p> <p>·Solar radiation 0 to 1400 W/m2  1 W/m2</p> <p>-With one (1) year license subscription period to access the weatherlink dashboard and manage remotely the collected weather data.</p> <p>- Technical support (i.e. service maintenance, troubleshooting, etc.) for the equipment and its dashboard including free software version upgrades for twelve (12) months.</p> <p>(With attached Terms of Reference which will form an integral part of this Purchase Order)</p> <p>***** Nothing Follows *****</p>	Unit	1	140,000.00	140,000.00

**Total Amount :** **1,940,000.00**

**Total Amount In Words (Pesos):** One Million Nine Hundred Forty Thousand Pesos Only

**MA. JOSEFINA G. BELMONTE**  
City Mayor



**REYNOLDO S. TEJADA**  
Signature Over Printed Name of Supplier / Date  
11-20-23

**Funds Available:**

**RUBY G. MANANGU**  
City Accountant

**Approved Budget for the Contract :** 1,940,000.00

**OBR :** 100-2023-11-11701



## TERMS AND CONDITIONS

1. ALL PRICES INDICATED HEREIN ARE VALID, BINDING AND EFFECTIVE AT LEAST WITHIN THIRTY (30) CALENDAR DAYS FROM DATE OF RECEIPT.
2. AWARDDEE shall be responsible for the source(s) of its supplies/materials/equipment and shall make deliveries in accordance with the schedule, quality and specification of the award and purchase order. Failure by the AWARDDEE to comply with the same shall be a ground for cancellation of the award and purchase order issued to that AWARDDEE and for re-awarding the item(s) to the ALTERNATE AWARDDEE.
3. AWARDDEE shall pick up purchase order(s) issued in its favor within three (3) days after receipt of notice to that effect. A telephone call, fax transmission or electronic mail (e-mail) shall constitute an official notice to the AWARDDEE. Thereafter, if the purchase order(s) remains unclaimed, the said purchase order(s) shall be sent by mailing or courier, messengerial service to the AWARDDEE. To avoid delay in the delivery of the requesting end-user's requirement, all DEFAULTING AWARDDEES shall be precluded from proposing or submitting a substitute sample.
4. Subject to the provisions of the preceding paragraph, where AWARDDEE has accepted a purchase order but fails to deliver the required product(s) within the time called for in the same order, the delivery period may be extended a maximum of fifteen (15) calendar days under liquidated damages to make good the delivery. Thereafter, if AWARDDEE has not completed the
5. delivery within the extended period, the subject purchase order shall be cancelled and the award for the undelivered balance, withdrawn from that AWARDDEE. The BAC-Goods and Services shall then purchase the required item(s) from such other source(s) as it may determine, with the difference in price to be charged against the DEFAULTING AWARDDEE. Refusal by the DEFAULTING AWARDDEE to shoulder the price difference shall be ground for its disqualification from future bids of the same items, without prejudice to the imposition of other sanction as prescribed under RA 9184 and its RIRR.
6. When the supplier fails to satisfactorily deliver goods/services under the contract within the specified delivery schedule, inclusive of duly granted time extensions, if any, the supplier shall be liable for damages for the delay and shall pay the procuring entity liquidated damages, not by way of penalty, an amount equal to one-tenth (1/10) of one percent (1%) of the cost of the delayed goods/services scheduled for delivery for everyday of delay until such goods/services are finally delivered and accepted by the procuring entity concerned.
7. Rejected deliveries shall be construed as non-delivery of product(s)/item(s) so ordered and shall be subject to liquidated damages, subject to the terms and conditions prescribed under paragraph 4 hereof.
8. Supplier shall guarantee its deliveries to be free from defects. Any defective item(s)/product(s), therefore that maybe discovered by the **Quezon City Government** within three (3) months after acceptance of the same, shall be replaced by the supplier within seven (7) calendar days upon receipt of a written notice to that effect.
9. All duties, excise and other taxes and revenue charges, if any, shall be for the supplier's account.
10. As a pre-condition to payment, IMPORTANT DOCUMENTS specifically showing the condition and serial numbers of the imported equipment purchased should be submitted by the supplier to the **Quezon City Government**.
11. All transactions are subject to applicable withholding taxes in accordance with existing BIR rules and regulations.
12. Supplier shall furnish the End-user through the City General Services Department stockroom, the articles, described above;
13. The **Quezon City Government** reserves the right to accept or reject delivered articles if found not in conformity to the specifications, terms and conditions stipulated.
14. Provisions contained in Title VI, Book IV of the Civil Code of the Philippines on Sales are hereby incorporated and made as an Integral part hereof.
15. This contract shall also serve as **Notice to Proceed**, to take effect on NOV 20 2023 and to expire on - MAR 20 2024.

CONFORME:

REYNALDO S. TEJADA  
SIGNATURE OVER PRINTED NAME

AUTHORIZED REPRESENTATIVE  
IN THE CAPACITY OF

11-20-23  
DATE

Duly authorized to sign this Purchase Order for and on behalf of PREVENTIVE ENVIRONMENTAL MANAGEMENT SOLUTION  
COMPANY NAME (PEPAS) TECHNOLOGIES

**SUBSCRIBED AND SWORN** to before me this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ at \_\_\_\_\_, Philippines. Affiant personally known to me and were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiants exhibited to me his/her \_\_\_\_\_ with his/her photograph and signature appearing thereon with No. \_\_\_\_\_.

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_

\*\*\*This Purchase Order shall be deemed invalid without Notary Seal (for project amounting to Php2,500,000.00 and above only)