

## **SCOPE OF SERVICES**

Services for repair and parts replacement for the E-Bam Plus Particulate Monitoring Machine

### **1. Background**

In alignment with ISO 14001:2015, SM 4 and MOA with DENR-EMB for the Adopt-an-Ambient Air Monitoring Station, which reflects JHMC's compliance with National Ambient Air Quality Standards, particularly addressing PM10 levels within the JHSEZ, it is essential for JHMC to maintain ambient air quality in accordance with the Good Air Quality Index. As part of its regulatory obligations, JHMC conducts regular ambient air quality monitoring within the JHSEZ to ensure compliance with established standards and proactively address any deviations from prescribed air quality benchmarks.

Currently, JHMC operates one (1) ambient air monitoring machine located at the Customs Clearance Area, as the first in the Cordillera Region to adopt an Ambient Air Monitoring Station. However, this machine is currently facing technical issues, specifically hardware malfunctions related to its sensor and the Comet system used for remote data extraction. As a result, Environment Management Division (EMD) had temporarily suspended ambient air sampling activities, until establishing appropriate repairs and replacement of parts, starting June 2024. To properly address these problems, the JHMC, through its Environment Management Division, sought assistance from EMB-CAR to perform corrective maintenance and restore the equipment's full functionality.

Following an initial assessment, EMB-CAR attempted to troubleshoot the equipment but determined that the issue was beyond their technical capacity (*Annex A*). As a result, they recommended engaging a third-party contractor for further diagnosis and repair. Attached is the Technical Service Report (*Annex B*) provided by the third-party contractor.

### **2. Objectives**

The specific objectives are as follows:

1. To restore the ambient air monitoring machine's functionality for efficient diagnosis and repair.
2. To establish a responsive maintenance process for the ambient air quality monitoring equipment to prevent downtime and ensure accurate, real-time monitoring of PM10 levels.

### 3. Scope of Procurement

#### A. Sensor Board Replacement

##### Current Error

The event occurs when an analog sensor reading (AT, RH, BP, UPPER, LOWER, FT, FRH) is outside the designated limits.



##### Product and Service needed

Provision and installation of 1 Sensor Board

#### B. Spare Parts

Item	Description	Qty
1	Sensor Board R	1 set
2	Communication Board	1 set

#### C. Maintenance Kits

Item	Description	Qty
1	Annual Maintenance Kit	1 set
2	Consumables	1 set
3	Pump Maintenance kit	1 set

#### D. Comet Cloud Services

Repair and subscription of the comet cloud service (CCS Modem – 9800)

### 4. Approved Budget

Based on the approved realigned items for 2024, the budget for Services for repair and parts replacement for the E-Bam Plus Particulate Monitoring Machine has an Approved Budget for Contract (ABC) of ₱400,000.00. This amount is allocated under Small Value Procurement procedures.

### 5. Recommendation

In view of the foregoing, below are the items respectfully recommended for your review and approval:

1. To procure sensor board and communication board, as these are critical components for accurate air quality monitoring.

2. The mode of procurement shall be through Small Value Procurement, given the approved budget of ₱400,000.00. According to the Updated 2016 Revised Implementing Rules and Regulations (IRR) of RA 9184 Section 53.9, Small Value Procurement for Goods, Infrastructure Projects, and Consulting Services applies when the amount involved does not exceed the threshold prescribed in Annex "H" of this IRR. Provided, however, that in the case of Goods, the procurement must not fall under the shopping method described in Section 52 of this IRR.