



## TERMS OF REFERENCE

### FOR THE SUPPLY, DELIVERY, TESTING, TRAINING AND COMMISSIONING OF GSM GATEWAY SERVER AND CG BOARD

#### A. OVERVIEW

In line with the turn-over of ASTI Hydromet Sensors ASTI provided the server requirements for the replication of the ASTI Collection Server. The GSM Gateway and CG Board will be used as the primary GSM Gateway of PAGASA in receiving Hydromet Sensor Data.

#### B. APPROVED BUDGET FOR THE CONTRACT (ABC)

The Approved Budget for the Contract inclusive of VAT and all applicable government taxes is Two Million Pesos (**PhP 2,000,000.00**)

#### C. QUALIFICATIONS OF THE BIDDER

(Please refer to; Instructions to Bidders, the Bid Data Sheet and Checklist of Eligibility and Technical Requirements of the Bidding Documents)

#### D. DELIVERY PERIOD AND PLACE OF DELIVERY

The winning bidder shall supply, deliver GSM Gateway and CG Board for forty-five (45) days from receipt of the Purchase Order (PO) at the PAGASA Central Office Science Garden Compound, BIR Road, Diliman, Quezon City.

#### E. BID PROPOSAL CONTENTS

The prospective bidder is expected to comply and respond in accordance with the specific instructions to bidders and submit all the documentary requirements under the Checklist of Eligibility, Technical and Financial Requirements. The submission of documentary requirements must be properly arranged in order and with label.

The prospective bidder shall respond paragraph by paragraph and shall clearly indicate compliance to all the required specifications (*Please see Section VII. Compliance Matrix*) and shall specify the number of days or schedules within which to complete the delivery of all the goods required (*Please see Section VI. Schedule of Requirements*).

The prospective bidder shall be required also to include in this proposal, original descriptive literatures and unamended brochures of all equipment/materials to be supplied. The bidder should be able to provide manufacturer's certificate for the servers to be delivered. The certificate should clearly indicate that the manufacturers or their local representative will shoulder the responsibilities of the bidder that is specified in the warranty. The manufacturer's certificate should also clearly indicate that the bidder is authorized by the manufacturer to distribute, install, configure, operate and maintain the manufacturer's product offered.

These details will allow the **PAGASA-Bids and Awards Committee** to fully evaluate and determine compliance from the prospective bidders.

## **F. TECHNICAL SPECIFICATIONS**

The winning bidder shall supply and deliver GSM Gateway and CG Board with the following minimum specifications:

### **1. GSM Gateway (for receiving of SMS) – One (1) Unit**

- Maximum Scan Rate: 100 Hz
- Multi-SIM (4 SIM cards per channel, 8 channels)
- For GSM/UMTS/LTE (2g/3g/4g)
- UMTS can send/receive 30 SMS per minute
- Scalable to at least 32 simultaneous ports
- Multiple software interfaces: custom API, HTTP-based, SMPP
- Advanced resource mapping algorithm allows various allocation scenarios of unique phone numbers to specific clients
- SMS campaigner application available
- SMS-to-email and email-to-SMS conversion capabilities
- Optional USSD add-on handles multiple transactions with the cellular carrier
- Easy, browser-based configuration and management
- Interface and Protocols
- IP/Ethernet: 10/100 Base-T, RJ-45
- Management and Control
- Web-based management
- Antenna
- Omni-directional: 3dB, indoor antenna with a 3m cable one antenna per four channels
- Weight: maximum 8kg (based on the system configuration)
- Housing: 19 inches rack-mountable
- Power: Max 230VA, 100-240VAC
- Environmental Temp: +5C to +45C
- Humidity: 5% to 95% (non-condensing)

### **2. CG Board (for GSM Gateway) – Five (5) Units**

- compatible with the above GSM GATEWAY

## **G. SITE ACCEPTANCE TEST (SAT) and On-Site Training**

The purpose of Site acceptance and on-site training is to verify the performance of the system in accordance with the specifications and functional requirements, defects or the winning bidder should rectify deviation discovered during site acceptance test immediately or within one (1) month period from the completion of test, after correction, testing should be done to verify the modifications.

The SAT shall be witnessed and accepted by at least five (5) members of the PAGASA IT

Staff and/or end user and shall be conducted within a total of seven (7) Calendar days, five (5) days on-site training on GSM Gateway Server. All expenses related to the on-site training on GSM Gateway Server shall be shouldered by winning bidder for a minimum of at least (5) participants.

#### **H. WARRANTIES**

1. The bidder warrants that it shall strictly conform to all the Terms and Conditions of this Terms of Reference.
2. The equipment shall be covered by a **one (1) year warranty** and shall commence upon customer acceptance. The winning bidder will provide all parts and labor during the warranty period at no additional cost to the customer.

