



**REQUEST FOR QUOTATION FOR A REAL-TIME TEMPERATURE AND
RELATIVE HUMIDITY MONITORING SYSTEM FOR TRANSPORT VEHICLES**

REF: RFQ MEDS/USAID 2022/065

1) TITLE

Request for quotation for a real-time electronic temperature and relative humidity monitoring system for transport vehicles.

2) USER REQUIREMENT SPECIFICATIONS

A. Technical specifications

- a) Measuring parameters- Temperature, Relative Humidity and Global Position System (GPS) Location of the vehicle
- b) Measuring range- At least -(minus) 20 °C to 70 °C for temperature and 0-100% RH for Relative humidity
- c) Resolution- Temperature: Better than 0.1 °C, Humidity: Better than 0.1%RH
- d) Measuring accuracy- Maximum Permissible Error of NMT $\pm 0.5^{\circ}\text{C}$ and NMT $\pm 5\%$ RH for temperature and relative humidity respectively
- e) Measuring interval- Can be set to between 1 minute to 24 hours
- f) User programmable software without limitation on number of sensors and users to be connected for centralized monitoring.
- g) Multiple use with no expiry.
- h) Memory NLT 20,000 data points for each sensor with cloud storage capability
- i) Warranty- At least 12 months with maintenance services
- j) Valid calibration certificate issued by KEBS or KEBS-accredited firm
- k) Sensor has replaceable battery with battery life of NLT 24 months. Must have independent power supply and network connectivity.
- l) Sensors have visual alarms/indicators for excursions. Software has SMS, email and audio alerts in case of excursions.
- m) Software can automatically generate customized numerical and graphical reports e.g. daily, weekly, monthly quarterly and annual reports in non-editable PDF format.
- n) Ease of use and integration- No additional proprietary hardware, software application or licensing required for downloading data.
- o) System or the manufacturer has relevant ISO or quality certification.
- p) System must be compatible with MEDS computerized systems.
- q) Vendor to supply design and operation qualification protocols and reports for the system.
- r) Estimated number of sensors: 100 to be fitted in 50 vehicles, 2 sensors per vehicle

B. Other requirements

- a) The vendor shall provide at least 2 sensors and the software for piloting by MEDS for a period of not more than 30 days. MEDS will provide vehicles for purposes of piloting. MEDS will



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evaluate the system based on the user requirement specifications and give feedback to the vendor on the results of the evaluation.

- b) The vendor shall present data sheet or technical specifications, and user manual for the system (software and sensors) to MEDS.
- c) Vendor shall provide the cost of the proposed system required to cover 50 vehicles each fitted with two sensors. The cost should include unit cost for the software and sensors and any applicable shipping, clearance, installation, validation, maintenance, calibration fees and applicable taxes. The cost should also include payment terms, and any associated costs including any monthly or annual subscriptions.
- d) Vendor should submit their quote by 1700hrs EAT on 1st July 2022 to as below details.

Managing Director.

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