

EQUIPMENT PURCHASE SPECIFICATION

FOR BME REPRESENTATIVE USE ONLY	
Approved By	Name : Zaenul Rosli
	Signature :
Date	29/4/2026

TITLE OF TENDER/QUOTATION	TO SUPPLY, DELIVER, TEST AND COMMISSION FOUR (4) UNITS CALIBRATED TEMPERATURE, HUMIDITY AND PRESSURE (THP) DATA LOGGERS WITH EXTERNAL SENSORS FOR QUALITY AND COMPLIANCE SECTION, THE DEPARTMENT OF SCIENTIFIC SERVICES, MINISTRY OF HEALTH. DSS/AQ/PROC/B50K/2025-2026/004(QC)
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TENDER REFERENCE NO.	DSS/AQ/PROC/B50K/2025-2026/004(QC)
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NAME OF ITEM	CALIBRATED TEMPERATURE, HUMIDITY AND PRESSURE (THP) DATA LOGGERS
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NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	VENDOR'S OFFER			
		COMPLY (Please tick <input type="checkbox"/>) (Provide evidence for compliance(s))		ITEM DESCRIPTIONS AND SPECIFICATIONS	PRICE (\$)
		YES	NO		
1	To supply, deliver, test & comission Four (4) units ISO 17025 calibrated data loggers with external sensors for ambient temperature, humidity and pressure (THP) with the below specifications.				
2	EQUIPMENT-SPECIFIC REQUIREMENTS				
2.1	Temperature Range: at least 0°C to +55°C				
2.2	Temperature Resolution: ≤ 0.1°C				
2.3	Calibrated Temperature Accuracy: ≤ ± 0.5°C				

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2.4	Humidity Range: at least 0 to 95 %RH (non-condensing)				
2.5	Humidity Resolution: ≤ 0.1 %RH				
2.6	Calibrated Humidity Accuracy: $\leq \pm 3$ %RH				
2.7	Pressure Range: at least 500 mbar to 1100 mbar				
2.8	Pressure Resolution: ≤ 1 mbar				
2.9	Calibrated Pressure Accuracy: $\leq \pm 10$ mbar				
3	GENERAL REQUIREMENTS				
3.1	Simultaneous display of temperature, humidity & pressure				
3.2	Each unit must be supplied with dongle with temperature, humidity, and pressure sensor that plugs onto the data logger				
3.3	LCD display				
3.4	User-selectable measurement units				
3.5	Status indicators				
3.6	User replaceable battery				
3.7	Comes with calibration certificate traceable to SI units.				
3.8	CE approved				

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3.9	<p><u>Each unit must be supplied with:</u></p> <ul style="list-style-type: none"> ◦ 1 ambient external dongle sensor ◦ Quick Start Guide ◦ batteries ◦ magnets ◦ hook and loop tape ◦ wall mount ◦ a bench stand 												
4	Calibration Requirements												
4.1	The calibration laboratory engaged must have a Calibration and Measurement Capability (CMC) for temperature, humidity and pressure (THP) data loggers that meets the expanded uncertainty requirements specified in the table under point 4.5.												
4.5	<p>The calibration expanded uncertainty (coverage factor k=2, approximately 95% confidence) must be consistent with the laboratory's accredited CMC for data loggers and meet or be better than the following maximum allowable values:</p> <table border="1" data-bbox="300 927 884 1133"> <thead> <tr> <th data-bbox="300 927 591 1031">Parameters</th> <th data-bbox="591 927 884 1031">Maximum Allowed Expanded Uncertainty (k=2) for Calibration</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 1031 591 1066">Temperature</td> <td data-bbox="591 1031 884 1066">≤ ±0.2°C</td> </tr> <tr> <td data-bbox="300 1066 591 1101">Relative Humidity</td> <td data-bbox="591 1066 884 1101">≤ ±2.5% RH</td> </tr> <tr> <td data-bbox="300 1101 591 1133">Pressure</td> <td data-bbox="591 1101 884 1133">≤ ±0.5 kPa or 5 mbar</td> </tr> </tbody> </table>	Parameters	Maximum Allowed Expanded Uncertainty (k=2) for Calibration	Temperature	≤ ±0.2°C	Relative Humidity	≤ ±2.5% RH	Pressure	≤ ±0.5 kPa or 5 mbar				
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Temperature	≤ ±0.2°C												
Relative Humidity	≤ ±2.5% RH												
Pressure	≤ ±0.5 kPa or 5 mbar												
4.6	The calibration laboratory shall use reference standards and methods traceable to SI units, such as:												
4.6.1	Standards: NIST/PTB/EURAMET-traceable reference instruments.												

4.6.2	Methods: ISO/IEC-compliant.				
4.7	The calibration laboratory shall comply with all applicable requirements of ISO/IEC 17025:2017 related to the reporting of calibration results.				
4.7.1	Specifically, the laboratory must report the expanded measurement uncertainty for each calibration point, expressed with a coverage factor k=2, corresponding to approximately 95% confidence level.				
4.7.2	Each calibration result shall be accompanied by the expanded uncertainty value, a clear statement of the coverage factor and confidence level, and a reference or summary of the uncertainty budget and its evaluation method.				
5	TRAINING Training shall be included as follows:				
5.1	On-site training for ALL staff members expected to handle the equipment. Please ensure that adequate time is allocated such that training will take place in small groups to minimize disruption to laboratory work.				
5.2	The training modules should include but not limited to:- <ul style="list-style-type: none"> ◦ Setup & Configuration; ◦ Calibration Verification; ◦ Software Integration, if applicable; ◦ Placement Guidelines; ◦ Stabilization Protocols; ◦ Drift Detection; ◦ Battery replacement, storage conditions ◦ Basic troubleshooting. 				

5.3	Certificate of competence is to be issued to all trainees after completion of training.				
6	<u>TENDER BRIEFING</u>				
6.1	It is MANDATORY for the tenderer to attend tender briefing by Quality and Compliance Section, Department of Scientific Services prior to tender submission. Non-attendance will be considered as non-compliance.				
7	<u>WARRANTY</u>				
7.1	A minimum of one (1) year warranty for manufacturer's defect on the hardware, software (if applicable) and all cost of repairs and/or replacements should be included.				
7.2	After-sales services must be provided for the product after one (1) year.				
7.3	One-time performance check by ISO 17025 accredited calibration laboratory to ensure the data loggers remain within their specified accuracy, including drift checks to monitor sensor stability.				
7.4	One-off preventive maintenance to be carried out just before or soon after the one-year warranty period. Scope of work to follow manufacturer's manual/ recommendation specific for the equipment offered.				
8	<u>DELIVERY</u> Items offered MUST be delivered within _____ from date of Purchase Order. (Vendor to indicate the delivery period.)				
9	<u>PRICE VALIDITY</u>				

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	Price validity MUST NOT BE LESS THAN 270 days or nine (9) months.				
					TOTAL PRICE (\$)

No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
A	Total Price: B\$	
B	Delivery Period:	
C	Model & Brand:	
D	Country of Origin:	
E	Where marketed:	
F	Year of Manufacture:	
G	Warranty:	
H	Power Requirement:	
I	Battery Back-up:	
J	International Safety Standard:	
K	Technical Support:	

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No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
L	Equipment Whole Life Support:	
M	Dimensions (WxHxD) cm:	
N	User Manuals:	
O	Service Manuals:	
P	Spare-parts & Consumables Listing:	
Q	Technical Training On-Site:	
R	Site Requirements:	

*To all participating companies, please fill in the table above along with your other documents during submission of tender.

Bahagian/Unit/Makmal :	QUALITY AND COMPLIANCE SECTION		
Bil. Rujukan Bahagian/Unit/Makmal :	O2K/QC/2025/005		
Pegawai dirujuk :	Nama :	Sia Fwu Shii/ Nurnisrinah Hj Awg Yusof	
	E-mail :	fwushii.sia@moh.gov.bn/ nurnisrinah.yusof@moh.gov.bn	
	Tel.No.:	2382424 ext 6123/ 6234	Fax No. : 2381946