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From: Director, CSIR-NPL
No. 14-VII/VE(3066-PAC)25PB/T-176 Dated:10.03.2026

CORRIGENDUM

With reference to NPL's PAC Tender ID: **2026_CSIR_831487_1** for "**System for Primary pH Measurement**". It is hereby informed that some changes have been made in the technical specification as well as in the due date are carried out against captioned tender.

Revised Technical specifications (Annexure-II) is also ATTACHED with this Corrigendum. Accordingly, you are requested to submit your Offer as per revised technical specification.

Due date & time of tender submission
For : 15.03.20206 up to 3:00 PM (IST)
Read as: 17.03.2026 up to 3:00 PM (IST)

Date & Time of Tender Opening
For : 16.03.2026 at 3:00 PM (IST)
Read as: 18.03.2026 at 3:00 PM (IST)

Please also note that bid submitted without taking these changes into consideration will be rejected summarily.

All other terms will remain the same. The same is also available on CSIR-NPL official website http://www.nplindia.in under Tender link.

Sr. Controller of Stores and Purchase

FORM TO BE USED BY TSC FOR FINALISING MINUTES

File No. 14-VII/VE (3066-PAC)25-PB /T-176 **Date: 10/03/2025**

TSC Minutes (To be typed clearly by the I/O)

Based on the recommendation of I/O and TSC approval, the following changes have been made to the specifications:

Original Specifications		Revised Specifications
1	**Fluke make 7009-25 High Stability/ High capacity/ Heavy Duty Temperature Large Access opening Calibration bath**	**Fluke make 7009-25 High Stability/ High capacity/ Heavy Duty Temperature Large Access opening Calibration bath**
1.1	Temperature range: 0 to 50°C	Temperature range: 0 to 50°C
1.2	Stability: +/- 0.0007°C at 25°C	Stability: +/- 0.0007°C at 25°C
1.3	Uniformity: +/- 0.003°C at 25°C	Uniformity: +/- 0.003°C at 25°C
1.4	Set Point resolution: 0.001°C, 0.00003 °C in High resolution mode	Set Point resolution: 0.001°C, 0.00003 °C in High resolution mode
1.5	Access Opening: Min. 699 mm × 559 mm	Access Opening: Min. 699 mm × 559 mm
1.6	Depth: 330 mm	Depth: 330 mm
1.7	Volume: 160 Litres	Volume: 160 Litres
1.8	Power: 230 VAC, (±10%), 50 Hz	Power: 230 VAC, (±10%), 50 Hz
2	**Fluke Make : 7508-25 High Stability/ Large capacity/ Heavy Duty Temperature calibration bath**	**Fluke Make : 7508-25 High Stability/ Large capacity/ Heavy Duty Temperature calibration bath**
2.1	Temperature range: -5 to 110 °C	Temperature range: -5 to 110 °C
2.2	Stability: +/- 0.0007 °C at 25 °C	Stability: +/- 0.0007 °C at 25 °C
2.3	Uniformity: +/- 0.003 °C at 25 °C	Uniformity: +/- 0.003 °C at 25 °C
2.4	Set Point resolution: 0.002 to 0.001 °C	Set Point resolution: 0.002 to 0.001 °C
2.5	Access Opening: 324 mm × 184 mm	Access Opening: 324 mm × 184 mm
2.6	Depth: 301 mm	Depth: 301 mm
2.7	Volume: 42 Litres	Volume: 42 Litres
2.8	Power: 230 VAC, (±10%), 50 Hz	Power: 230 VAC, (±10%), 50 Hz

	The baths have heating and cooling arrangement for maintaining temperature uniformity and stability within the working area and can accommodate 4 - 8 Nos. of Harned cells. Both baths have facility for computer interfacing RS232/IEEE as complete automation is provided. Harned Cell System: 14 Harned Cells made in Borosilicate glass or quartz have to be supplied. The cell will be supplied with 10 Nos. Pt electrode and 10 Nos. Ag/AgCl electrode. Total 25 Coaxial connectors and electrode cable is provided in the setup. Appropriate holders and racks will be supplied to immerse the Harned cells inside highly stable water baths.	The baths should have heating and cooling arrangement for maintaining temperature uniformity and stability within the working area and can accommodate 4 - 8 Nos. of Harned cells. Both baths should have facility for computer interfacing RS232/IEEE as complete automation is provided.

ANNEXURE-II

Revised Technical Specification of the "System for primary pH measurement"

S. No	Technical Specification
1	**Fluke make 7009-25 High Stability/ High capacity/ Heavy Duty Temperature Large Access opening Calibration bath**
1.1	Temperature range: 0 to 50°C
1.2	Stability: +/- 0.0007°C at 25°C
1.3	Uniformity: +/- 0.003°C at 25°C
1.4	Set Point resolution: 0.001°C, 0.00003 °C in High resolution mode
1.5	Access Opening: Min. 699 mm × 559 mm
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1.7	Volume: 160 Litres
1.8	Power: 230 VAC, (±10%), 50 Hz
2	**Fluke Make : 7508-25 High Stability/ Large capacity/ Heavy Duty Temperature calibration bath**
2.1	Temperature range: -5 to 110 °C
2.2	Stability: +/- 0.0007 °C at 25 °C
2.3	Uniformity: +/- 0.003 °C at 25 °C
2.4	Set Point resolution: 0.002 to 0.001 °C
2.5	Access Opening: 324 mm × 184 mm
2.6	Depth: 301 mm
2.7	Volume: 42 Litres
2.8	Power: 230 VAC, (±10%), 50 Hz
	The baths should have heating and cooling arrangement for maintaining temperature uniformity and stability within the working area and can accommodate 4 - 8 Nos. of Harned cells. Both baths should have facility for computer interfacing RS232/IEEE as complete automation is provided.
3	**Fluke Model: 5698-25-S High Precision Low Drift rate Premium grade Quartz Standard Platinum Resistance Thermometer (SPRT)**
3.1	Temperature Range: -200 deg. C to 670 deg. C
3.2	Nominal Resistance@ (TPW): 25.5 Ω (+/-0.5 Ω)
3.3	Temperature Co-efficient (α): ≥ 0.003925 Ω/Ω/°C
3.4	Resistance Ratio (W(302.9146K): ≥ 1.11807
3.5	Stability/Drift ≤ 0.006 °C/year
3.6	Self-heating at TPW: < 0.002 °C at 1 mA excitation
3.7	Current Rating: 1 mA typical measuring current
3.8	Sensor Materials: Coiled platinum wire embedded in high-purity ceramic or glass insulator. Sheath Diameter: 7 mm, Length: 485 mm
3.9	Sheet material: Quartz (fused silica)
4	**Fluke Model: 5698-25-S High Accuracy Metal Sheath Secondary Standard Platinum Resistance Thermometer (SPRT)**
4.1	Temperature Range: -200 °Cto 670 °C
4.2	Nominal Resistance: 100 Ω +/- 0.05 Ω at 0 °C
4.3	Self-heating (in 0°C bath): 50 mW/°C
4.4	Temperature Co-efficient (α): ≥ 0.003925Ω/Ω/°C
4.5	Accuracy: ±0.025 °C to ±0.05 °C at max temperature
4.6	Drift:±0.01 °C at 0.01 °C
4.7	Sheath Materials: Stainless Inconel ™ 600,

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4.7	Sheath Materials: Stainless Inconel ™ 600,

12	Warranty: 1 years after installation
13	Training: Training on usage of system to be provided at CSIR-NPL, India or other suitable place at supplier cost.
19	Delivery of the item will be done in 6-8 Months after placing purchase order and 3 months for installation and commissioning and training of the system
	Acceptance Criteria
20	After installation, vendor should demonstrate the measurement result with uncertainty budget.
21	The primary method should ensure measurements with at least four decimal places of precision at pH 4.0, 7.0, and 9.0, with high accuracy and reproducibility. Uncertainty budget will be comparable to that of National Metrology Institute (NMIs) in developed Countries.