

# CSIR - NATIONAL PHYSICAL LABORATORY

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From: Director, CSIR-NPL  
Tender No. 14-VI/HA(1128)23PB/T-177

Dated: 09.01.2024

## CORRIGENDUM

With reference to NPL's Global Tender ID: **2023\_CSIR\_738297\_1**, Pre-Bid Conference (PBC) was concluded on 02.01.2024 for "High Resistance Standards". Consequent upon the outcome of PBC, **some changes have been made in the technical specification of captioned tender. Revised specifications are as follows:**

Sl. No.	Parameter	Specification
1.	100 M $\Omega$ Air Resistance standard Quantity – 1 No.	Stability/year should not exceed 25 ppm and temperature coefficient shall not exceed 5 ppm/ $^{\circ}$ C
2.	1 G $\Omega$ Air Resistance standard Quantity – 1 No.	Stability/year should not exceed 35 ppm and temperature coefficient shall not exceed 6 ppm/ $^{\circ}$ C
3.	10 G $\Omega$ Air Resistance standard Quantity – 1 No.	Stability/year should not exceed 100 ppm and temperature coefficient shall not exceed 200 ppm/ $^{\circ}$ C
4.	100 G $\Omega$ Air Resistance standard Quantity – 1 No.	Stability/year should not exceed 200 ppm and temperature coefficient shall not exceed 250 ppm/ $^{\circ}$ C
5.	10 T $\Omega$ Air Resistance standard Quantity – 1 No.	Stability/year should not exceed 750 ppm and temperature coefficient shall not exceed 500 ppm/ $^{\circ}$ C
6.	100 T $\Omega$ Air Resistance standard Quantity – 1 No.	Stability/year should not exceed 5000 ppm and temperature coefficient shall not exceed 10000 ppm/ $^{\circ}$ C
7.	Operating temperature for all resistance standards	18 $^{\circ}$ C to 28 $^{\circ}$ C
8.	Operating relative humidity	40 % to 60 %
9.	ISO/IEC 17025 calibration certificate Traceable to NMI (including calibration data)	Should be provided along with the every standard during delivery

10.	Operating manual and service manual	Should be provided along with the equipment during delivery
11.	Delivery at NPL	Within 6 months from P.O.
12.	Warranty	1 year
13.	Installation and Testing	Installation and demonstration of all standards should be done at NPL as per specifications complied by the supplier/OEM

All other terms & conditions of said tender will remain the same.

  
Sr. Controller of Stores & Purchase

**FORM TO BE USED BY TSC FOR FINALISING PRE-BID MINUTES**

**File No. 14-VI/HA (1128)23PB/T-177 for High Resistance Standards**

**Date: 02.01.2024**

**TSC Minutes**

Based on the Pre-bid meeting and recommendation of I/O, following changes have been made in the specifications:

<b>Original Specifications (page no. 28 of tender document)</b>	<b>Final Specifications (ANNEXURE-I)</b>
1. 100 M $\Omega$ Air Resistance standard. Stability/year should not exceed 25 ppm and temperature coefficient shall not exceed 5 ppm/ $^{\circ}$ C- Quantity – 1 No.	100 M $\Omega$ Air Resistance standard. Stability/year should not exceed 25 ppm and temperature coefficient shall not exceed 5 ppm/ $^{\circ}$ C- Quantity – 1 No.
2. 1 G $\Omega$ Air Resistance standard. Stability/year should not exceed 35 ppm and temperature coefficient shall not exceed 6 ppm/ $^{\circ}$ C- Quantity – 1 No	1 G $\Omega$ Air Resistance standard. Stability/year should not exceed 35 ppm and temperature coefficient shall not exceed 6 ppm/ $^{\circ}$ C- Quantity – 1 No
3. 10 G $\Omega$ Air Resistance standard. Stability/year should not exceed 100 ppm and temperature coefficient shall not exceed 200 ppm/ $^{\circ}$ C Quantity – 1 No.	10 G $\Omega$ Air Resistance standard. Stability/year should not exceed 100 ppm and temperature coefficient shall not exceed 200 ppm/ $^{\circ}$ C Quantity – 1 No.
4. 100 G $\Omega$ Air Resistance standard. Stability/year should not exceed 200 ppm and temperature coefficient shall not exceed 250 ppm/ $^{\circ}$ C Quantity – 1 No.	100 G $\Omega$ Air Resistance standard. Stability/year should not exceed 200 ppm and temperature coefficient shall not exceed 250 ppm/ $^{\circ}$ C Quantity – 1 No.
5. 10 T $\Omega$ Air Resistance standard. Stability/year should not exceed 750 ppm and temperature coefficient shall not exceed 500 ppm/ $^{\circ}$ C Quantity – 1 No.	10 T $\Omega$ Air Resistance standard. Stability/year should not exceed 750 ppm and temperature coefficient shall not exceed 500 ppm/ $^{\circ}$ C Quantity – 1 No.
6. 100 T $\Omega$ Air Resistance standard. Stability/year should not exceed 5000	100 T $\Omega$ Air Resistance standard. Stability/year should not exceed 5000 ppm and temperature

ppm and temperature coefficient shall not exceed 10000 ppm/°C Quantity – 1 No.	coefficient shall not exceed 10000 ppm/°C Quantity – 1 No
7. Operating temperature for all resistance standards- 18 °C to 28 °C	Operating temperature for all resistance standards- 18 °C to 28 °C
8. Operating relative humidity- 40 % to 60 %	Operating relative humidity- 40 % to 60 %
9. Connector and cable compatible to N connectors at the other end - male with a length of 1.5m & Quantity – 1 No.	Removed
10. Connector and cable compatible to N connectors at the other end - female with a length of 1.5m & Quantity – 1 No.	Removed
11. Connector and cable compatible to Binding post at the other end - length of 1.5m & Quantity – 1 No.	Removed
12. Connector and cable compatible to BNC connectors the other end – male with a length of 1.5m & Quantity – 1 No.	Removed
13. Connector and cable compatible to BNC connectors the other end – female with a length of 1.5m & Quantity – 1 No.	Removed
14. Connector and cable compatible to TRIAX connectors the other end – female with a length of 1.5m & Quantity – 1 No.	Removed
15. Connector and cable compatible to TRIAX connectors the other end – male with a length of 1.5m & Quantity – 1 No.	Removed
16. Connector and cable compatible to BPO connectors the other end –length	Removed

of 1.5m & Quantity – 1 No.	
17. ISO/IEC 17025 calibration certificate Traceable to NMI (including calibration data). Should be provided along with the every standard during delivery	ISO/IEC 17025 calibration certificate Traceable to NMI (including calibration data). Should be provided along with the every standard during delivery
18. Operating manual and service manual. Should be provided along with the equipment during delivery	Operating manual and service manual. Should be provided along with the equipment during delivery
19. Delivery at NPL Within 6 months from P.O.	Delivery at NPL Within 6 months from P.O.
20. Warranty- 1 year	Warranty- 1 year
21. Installation and Testing- Installation and demonstration of all standards should be done at NPL as per specifications complied by the supplier/OEM	Installation and Testing- Installation and demonstration of all standards should be done at NPL as per specifications complied by the supplier/OEM
22. Cables and connectors- Should be shielded and free from noise and other leakage parameters	Removed

The file is forwarded to Purchase Section for uploading the final specifications and TSC minutes on the website and CPPP Portal.

Declaration: We hereby declare that we have no conflict of interest with any of the bidder in this tender