



Date: December 27, 2023
Next Calibration Date: 2022-03-21
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Certificate Number: N21080387/D6.02c/C-06

Calibration Certificate : DC Reference Standard

- | | |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Calibrated for: | LF, HF Impedance and DC Metrology Section,
CSIR-NATIONAL PHYSICAL LABORATORY
Dr K S Krishnan Marg
New Delhi
110012
Customer Reference note dated 15-07-2021 |
| 2. Description and Identification of instrument: | DC Reference Standard

732B
Serial no.9130702 |
| 3. Environmental Conditions: | Temperature: $(25 \pm 1)^{\circ}\text{C}$
Humidity: $(50 \pm 10)\%$ |
| 4. Standard(s) Used:
Associated Uncertainty: | Programmable Josephson Voltage Standard
string-manufacturer-measuringEquipment-1 |
| 5. Traceability of standard(s) used: | Programmable Josephson Voltage Standard
(Primary Standard) |
| 6. Principle/ Methodology of Calibration: | The DC Reference Standard has been calibrated by comparison method with Programmable Josephson Voltage Standard as per calibration procedure no. |

Head CFT:	Calibrated By:	Checked By:	Scientist in- charge:
(Dr Sushil Kumar)	(Sandhya M. Patel)	(Saood Ah- mad)	(Anurag Gupta)



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7. Measurements:

Nominal Value (in V)	Measured Value(in V)	Error(in V)
10.0	10.00003835	0.000000091
1.018	1.01815396	0.000000086

The report expanded uncertainty is at a coverage factor $k + 2$ which corresponds approximately 95.0% for a normal distribution.

8. Dates of Calibration: 2021-09-21 to 2021-09-21

9. Remarks: (i) The DC Reference Standard has been calibrated
(ii) The noise of the DC Reference Standard is inclusive

Head
CFT:

(Dr Sushil
Kumar)

Calibrated
By:

(Sandhya
M. Patel)

Checked
By:

(Saood Ah-
mad)

Scientist in-
charge:

(Anurag
Gupta)