

**Annexure 2A - Multi-Product Calibrator Specifications - Amendment**

| S. No. | Existing                                                                                                      | Amended                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1      | <b>DC Voltage:</b><br>Accuracy @1 mV : <20 ppm                                                                | <b>DC Voltage:</b><br>Accuracy @1 mV : ≤25 ppm                                                                  |
| 3      | <b>i) AC Voltage:</b> Frequency range: ≥ 1 Hz to ≥500 KHz<br><b>ii) Accuracy @ 1000 V, 1 kHz:</b><br><500 ppm | <b>i) AC Voltage:</b> Frequency range: ≥ 1 Hz to ≤ 500 KHz<br><b>ii) Accuracy @ 1000 V, 1 kHz:</b><br>≤ 600 ppm |
| 4      | <b>AC Current:</b> range:<br>≤ 10 μA to ≥ 30 A                                                                | <b>AC Current:</b> range:<br>≤ 20 μA to ≥ 30 A                                                                  |
|        | <b>AC Current:</b><br>Frequency range: ≥ 1 Hz to ≥30 KHz                                                      | <b>AC Current</b><br>Frequency range: ≤ 10 Hz to ≥30 KHz                                                        |
|        | <b>AC Current:</b> Accuracy @ 10 μA, 1 kHz : < 1000 ppm                                                       | <b>AC Current:</b> Accuracy @ 10 μA, 1 kHz : < 1400 ppm                                                         |
| 6      | <b>Capacitance:</b> Resolution@ min range: <1 pF                                                              | <b>Capacitance:</b> Resolution@ min range: ≤1 nF                                                                |
| 7      | <b>Inductance</b> : ≤ 50 μH to ≥ 100 H                                                                        | <b>Inductance</b> : ≤ 1 mH to ≥ 10 H                                                                            |
| 10     | <b>Phase Frequency:</b> ≤ 5 Hz to ≥ 20 kHz                                                                    | <b>Phase Frequency:</b> ≤ 50 Hz to ≥ 400Hz                                                                      |
|        | <b>Phase:</b> Provision Internal & External                                                                   | <b>Phase:</b> Provision Internal & External (Optional)                                                          |

|    |                                                                                                                               |                                                                                                                                  |
|----|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 12 | <b>Power Frequency:</b> > 40 Hz to ≤ 1 KHz                                                                                    | <b>Power Frequency:</b> ≥ 1 Hz to ≥ 400Hz                                                                                        |
| 13 | <b>Oscilloscope option:</b><br><b>Amplitude</b> : ≤1 mVpp to ≥50 Vpp @ 1 KHz (Sine & Square)<br><b>Time base:</b> 1ns to 10 s | <b>Oscilloscope option:</b><br><b>Amplitude</b> : ≤2 mVpp to ≥50 Vpp @ 1 KHz (Sine & Square)<br><b>Time base:</b> ≤2 ns to ≤10 s |

**Annexure 2B - 8.5 Digital Multimete Specifications - Amendment**

| <b>S. No.</b> | <b>Existing</b>                                                                                                             | <b>Amended</b>                                                                                                                              |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1             | <b>DC Voltage:</b><br>Absolute accuracy at 10 V Range: <5 ppm                                                               | <b>DC Voltage:</b><br>Absolute accuracy at 10 V Range: <6 ppm                                                                               |
| 2             | i) <b>AC Voltage:</b><br>Range: $\leq 1 \text{ mV}$ to $\geq 1000 \text{ V}$<br>ii) Resolution @ Min range: < 10 nV         | i) <b>AC Voltage:</b><br>Range: $\leq 10 \text{ mV}$ to $\geq 1000 \text{ V}$<br>ii) Resolution @ Min range: $\leq 0.1 \text{ }\mu\text{V}$ |
| 4             | i) <b>AC Current:</b><br>Frequency range: $\geq 1 \text{ Hz}$ to $\geq 30 \text{ KHz}$<br>ii) Resolution@ Min range: <10 pA | i) <b>AC Current:</b><br>Frequency range: $\leq 10 \text{ Hz}$ to $\leq 30 \text{ KHz}$<br>ii) Resolution@ Min range: $\leq 100 \text{ pA}$ |

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|-------------------------------------------|
| <b>Last date for submission of Tender</b> |
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| <b>Existing</b>                   | <b>Amended</b>                    |
|-----------------------------------|-----------------------------------|
| <b>03/05/2025 up to 16:00 hrs</b> | <b>31/05/2025 up to 16:00 hrs</b> |