

# Schedule

Unitest Instruments Pte Ltd  
18 Boon Lay Way  
#08-127  
Singapore 609966

Certificate No. : LA-2023-0845-C  
Issue No. : 4  
Date : 28 July 2026  
Expiry of Certificate : 02 August 2027  
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ACCREDITATION STANDARD: ISO/IEC 17025:2017  
FIELD OF TESTING : Calibration and Measurement

| MEASURED QUANTITIES / INSTRUMENTS /<br>RANGE TO BE CALIBRATED                | Range to be Calibrated /<br>Measured Quantities /<br>Frequency                                                                                                                                                                                                                                                 | CALIBRATION AND<br>MEASUREMENT<br>CAPABILITY (CMC*)                                                     |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>A ELECTRICAL – DC/LF</b>                                                  |                                                                                                                                                                                                                                                                                                                |                                                                                                         |
| 1. Resistance measuring instrument<br>Lab In-House procedure UNI-E001 Rev:1  | 0 $\Omega$ – 12 $\Omega$<br>>12 $\Omega$ – 120 $\Omega$<br>>120 $\Omega$ – 1.2 k $\Omega$<br>>1.2 k $\Omega$ – 12 k $\Omega$<br>>12 k $\Omega$ – 120 k $\Omega$<br>>120 k $\Omega$ – 1.2 M $\Omega$<br>>1.2 M $\Omega$ – 12 M $\Omega$<br>>12 M $\Omega$ – 120 M $\Omega$<br>>120 M $\Omega$ – 1200 M $\Omega$ | 0.011 $\Omega$<br>0.13 %<br>0.11 %<br>0.019 %<br>0.011 %<br>0.011 %<br>0.021 %<br>0.062 %<br>0.42 %     |
| 2. DC Voltage measuring instrument<br>Lab-In-House procedure UNI-E001 Rev:1  | 0 mV – 220mV<br>>220mV – 2.2V<br>>2.2V – 11V<br>>11V-22V<br>>22V – 220V<br>>220V – 1020V                                                                                                                                                                                                                       | 0.0022mV<br>0.012mV<br>0.043mV<br>0.084mV<br>0.0012V<br>0.0079V                                         |
| 3. AC Voltage measuring instruments<br>Lab-In-House procedure UNI-E001 Rev:1 | <b>1mV – 2.2 mV</b><br>3 Hz to 5 Hz<br>>5 Hz to 10 Hz<br>>10Hz to 20Hz<br>>20Hz to 40Hz<br>>40Hz to 20kHz<br>>20kHz to 50kHz<br>>50kHz to 100kHz<br>>100kHz to 300kHz<br>>300kHz to 500kHz<br>>500kHz to 1MHz                                                                                                  | 1.6%<br>1.0 %<br>0.0046mV<br>0.0043mV<br>0.0043mV<br>0.0046mV<br>0.0062mV<br>0.02mV<br>0.03mV<br>0.03mV |

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|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                               | <b>2.2mV to 22mV</b><br>3 Hz to 5 Hz<br>>5 Hz to 10 Hz<br>>10Hz to 20Hz<br>>20Hz to 40Hz<br>>40Hz to 20kHz<br>>20kHz to 50kHz<br>>50kHz to 100kHz<br>>100kHz to 300kHz<br>>300kHz to 500kHz<br>>500kHz to 1MHz | 0.32%<br>0.17 %<br>0.01mV<br>0.01mV<br>0.006mV<br>0.009mV<br>0.02mV<br>0.04mV<br>0.06mV<br>0.081mV   |
|                                                               | <b>22mV to 220mV</b><br>3 Hz to 5 Hz<br>>5 Hz to 10 Hz<br>>10Hz to 20Hz<br>>20Hz to 40Hz<br>>40Hz to 20kHz<br>>20kHz to 50kHz<br>>50kHz to 100kHz<br>>100kHz to 300kHz<br>>300kHz to 500kHz<br>>500kHz to 1MHz | 0.42%<br>0.15 %<br>0.066mV<br>0.028mV<br>0.021mV<br>0.035mV<br>0.086mV<br>0.17mV<br>0.34mV<br>0.65mV |
|                                                               | <b>220mV to 2.2V</b><br>3 Hz to 5 Hz<br>>5 Hz to 10 Hz<br>>10Hz to 20Hz<br>>20Hz to 40Hz<br>>40Hz to 20kHz<br>>20kHz to 50kHz<br>>50kHz to 100kHz<br>>100kHz to 300kHz<br>>300kHz to 500kHz<br>>500kHz to 1MHz | 0.33%<br>0.5 %<br>0.58mV<br>0.22mV<br>0.11mV<br>0.17mV<br>0.23mV<br>0.86mV<br>0.0025V<br>0.0042V     |
|                                                               | <b>2.2V to 22V</b><br>3 Hz to 5 Hz<br>>5 Hz to 10 Hz<br>>10Hz to 20Hz                                                                                                                                          | 0.32 %<br>0.50 %<br>0.0057V                                                                          |

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|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                        | >20Hz to 40Hz<br>>40Hz to 20kHz<br>>20kHz to 50kHz<br>>50kHz to 100kHz<br>>100kHz to 300kHz<br>>300kHz to 500kHz<br>>500kHz to 1MHz<br><br><b>22V to 220V</b><br>3 Hz to 5 Hz<br>>5 Hz to 10 Hz<br>>10Hz to 20Hz<br>>20Hz to 40Hz<br>>40Hz to 20kHz<br>>20kHz to 50kHz<br>>50kHz to 100kHz | 0.0022V<br>0.0011V<br>0.0016V<br>0.0021V<br>0.0067V<br>0.025V<br>0.038V<br><br>0.50 %<br>0.16 %<br>0.058V<br>0.022V<br>0.013V<br>0.019V<br>0.036V |
|                                                                                        | <b>220V to 1020V</b><br>3 Hz to 5 Hz<br>>5 Hz to 10 Hz<br>>10Hz to 50Hz<br>>50Hz to 1kHz<br>>1 kHz – 10 kHz                                                                                                                                                                                | 0.29 %<br>0.12 %<br>0.12 %<br>0.085V<br>0.04 %                                                                                                    |
| 4. DC Current measuring instruments<br><br>Lab-In-House procedure UNI-E001 Rev:1       | 0 $\mu$ A – 220 $\mu$ A<br>>220 $\mu$ A – 2.2 mA<br>>2.2 mA – 22 mA<br>>22 mA – 220 mA<br>>220 mA – 2.2 A<br>>2.2 A – 3.1 A<br>>3.1 A – 12 A<br>>12 A – 30 A                                                                                                                               | 0.015 $\mu$ A<br>0.09 $\mu$ A<br>0.83 $\mu$ A<br>0.011 mA<br>0.2 mA<br>0.044 %<br>0.041 %<br>0.11 %                                               |
| 5. DC Current Clamp measuring instruments<br><br>Lab-In-House procedure UNI-E002 Rev:0 | 0 mA – 20 mA<br>20 mA – 100 mA<br>0.1 A – 4 A<br>>4 A – 40 A<br>>40 A – 60 A<br>>60 A – 200 A                                                                                                                                                                                              | 0.14 mA<br>0.72 %<br>1.0 %<br>0.7 %<br>0.67 %<br>0.67 %                                                                                           |

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|----------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|
| 6. AC Current measuring instruments<br><br>Lab-In-House procedure UNI-E001 Rev:1 | >200 A – 300 A                                                 | 0.67 %                                              |
|                                                                                  | >300 A – 1500A                                                 | 0.67 %                                              |
|                                                                                  | <b>20 <math>\mu</math>A – 220 <math>\mu</math>A</b>            |                                                     |
|                                                                                  | 10Hz – 20Hz                                                    | 0.08 $\mu$ A                                        |
|                                                                                  | >20Hz – 40Hz                                                   | 0.06 $\mu$ A                                        |
|                                                                                  | >40Hz – 1kHz                                                   | 0.040 $\mu$ A                                       |
|                                                                                  | >1kHz – 5kHz                                                   | 0.030 $\mu$ A                                       |
|                                                                                  | >5kHz – 10kHz                                                  | 0.12 $\mu$ A                                        |
|                                                                                  | >10 kHz – 30 kHz                                               | 3.4 %                                               |
|                                                                                  | <b>220 <math>\mu</math>A – 2.2 mA</b>                          |                                                     |
|                                                                                  | >10Hz – 20Hz                                                   | 0.62 $\mu$ A                                        |
|                                                                                  | >20Hz – 40Hz                                                   | 0.51 $\mu$ A                                        |
|                                                                                  | >40Hz – 1kHz                                                   | 0.28 $\mu$ A                                        |
|                                                                                  | >1kHz – 5kHz                                                   | 0.6 $\mu$ A                                         |
|                                                                                  | >5kHz – 10kHz                                                  | 0.0032 mA                                           |
|                                                                                  | >10 kHz – 30 kHz                                               | 4.8 %                                               |
|                                                                                  | <b>2.2 mA – 22 mA</b>                                          |                                                     |
|                                                                                  | 10Hz – 20Hz                                                    | 0.007 mA                                            |
|                                                                                  | >20Hz – 40Hz                                                   | 0.004 mA                                            |
|                                                                                  | >40Hz – 1kHz                                                   | 0.003 mA                                            |
|                                                                                  | >1kHz – 5kHz                                                   | 0.006 mA                                            |
|                                                                                  | >5kHz – 10kHz                                                  | 0.030 mA                                            |
|                                                                                  | >10 kHz – 30 kHz                                               | 1.4 %                                               |
|                                                                                  | <b>22 mA – 220 mA</b>                                          |                                                     |
|                                                                                  | 10Hz – 20Hz                                                    | 0.061 mA                                            |
|                                                                                  | >20Hz – 40Hz                                                   | 0.04 mA                                             |
|                                                                                  | >40Hz – 1kHz                                                   | 0.027 mA                                            |
|                                                                                  | >1kHz – 5kHz                                                   | 0.06 mA                                             |
|                                                                                  | >5kHz – 10kHz                                                  | 0.26 mA                                             |
|                                                                                  | >10 kHz – 30 kHz                                               | 1.4 %                                               |
|                                                                                  | <b>220 mA – 2.2 A</b>                                          |                                                     |
|                                                                                  | 20Hz – 1kHz                                                    | 0.59 mA                                             |
|                                                                                  | >1kHz – 5kHz                                                   | 1.2 mA                                              |
|                                                                                  | >5kHz – 10kHz                                                  | 0.016 A                                             |
|                                                                                  | >10 kHz to 30 kHz                                              | 0.8 %                                               |

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|---------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|
| 7. AC Current clamp measuring instrument<br><br>Lab-In-House procedure UNI-E002 Rev:0 | <b>2.2 A – 3.1 A</b>                                           |                                                     |
|                                                                                       | 3 Hz – 45 Hz                                                   | 0.25 %                                              |
|                                                                                       | >45 Hz – 1 kHz                                                 | 0.06 %                                              |
|                                                                                       | >1 kHz – 5 kHz                                                 | 0.06 %                                              |
|                                                                                       | >5 kHz – 10 kHz                                                | 0.3 %                                               |
|                                                                                       | <b>3.1 A – 12 A</b>                                            |                                                     |
|                                                                                       | 3 Hz – 45 Hz                                                   | 0.12 %                                              |
|                                                                                       | >45 Hz – 1 kHz                                                 | 0.05 %                                              |
|                                                                                       | >1 kHz – 5 kHz                                                 | 0.07 %                                              |
|                                                                                       | >5 kHz – 10 kHz                                                | 0.29 %                                              |
|                                                                                       | <b>12 A – 30.2 A</b>                                           |                                                     |
|                                                                                       | 3 Hz – 45 Hz                                                   | 0.21 %                                              |
|                                                                                       | >45 Hz – 1 kHz                                                 | 0.14 %                                              |
|                                                                                       | >1 kHz – 5 kHz                                                 | 0.57 %                                              |
|                                                                                       | <b>(30 Hz – 200 Hz)</b>                                        |                                                     |
|                                                                                       | 10 mA – 40 mA                                                  | 0.76 %                                              |
|                                                                                       | 40 mA – 400 mA                                                 | 0.70 %                                              |
|                                                                                       | 0.4 A – 4 A                                                    | 0.67 %                                              |
|                                                                                       | >4 A – 40 A                                                    | 0.68 %                                              |
|                                                                                       | >40 A – 60 A                                                   | 0.72 %                                              |
|                                                                                       | >60 A – 200 A                                                  | 0.69 %                                              |
|                                                                                       | >200 A – 300 A                                                 | 0.68 %                                              |
|                                                                                       | <b>(30 Hz – 60 Hz)</b>                                         |                                                     |
|                                                                                       | >300 A – 1500A                                                 | 0.67 %                                              |
| 8 Frequency measuring instruments<br><br>Lab-In-House procedure UNI-E001 Rev:0        | 0.01 Hz – 119.99 Hz                                            | 0.018 %                                             |
|                                                                                       | 120.0 Hz – 1199.9 Hz                                           | 0.0014 %                                            |
|                                                                                       | 1.200 kHz – 11.999 kHz                                         | 0.0011 %                                            |

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|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|                                                                                          | 12.00 kHz – 119.99 kHz<br>120.1 kHz – 1199.9 kHz<br>1.200 MHz – 2.000 MHz                                                                                                                                                                                                                                                                                           | 0.00057 %<br>0.0052%<br>0.00027 %                                                                                |
| 9. Capacitance measuring instruments<br>@ 1 kHz<br>Lab-In-House procedure UNI-E001 Rev:0 | 0.2 nF – 1.2 nF<br>>1.2 nF – 12 nF<br>>12 nF – 120 nF<br>>120 nF – 1.2 $\mu$ F<br>>1.2 $\mu$ F – 12 $\mu$ F<br>>12 $\mu$ F – 120 $\mu$ F<br>>120 $\mu$ F – 1.2mF<br>>1.2 mF – 12 mF<br>>12 mF – 120 mF                                                                                                                                                              | 2.3 %<br>0.6 %<br>0.4 %<br>0.4%<br>0.4 %<br>0.4 %<br>0.45 %<br>0.49 %<br>0.8 %                                   |
| 10. Inductance measuring instruments<br>@ 1 kHz<br>Lab-In-House procedure UNI-E001 Rev:0 | 13 $\mu$ H – 120 $\mu$ H<br>>120 $\mu$ H – 1.2 mH<br>>1.2 mH – 12 mH<br>>12 mH – 120 mH<br>>120 mH – 1.2 H<br>>1.2 H – 12 H<br>>12 H – 120 H                                                                                                                                                                                                                        | 2.0 %<br>1.0 %<br>1.0 %<br>1.0 %<br>1.0 %<br>1.0 %<br>1.1 %                                                      |
| 11. Resistance sourcing instruments<br><br>Lab-In-House procedure UNI-E003 Rev:0         | 0.01 $\Omega$ – 1 $\Omega$<br>>1 $\Omega$ – 10 $\Omega$<br>>10 $\Omega$ – 100 $\Omega$<br>>100 $\Omega$ – 1 k $\Omega$<br>>1 k $\Omega$ – 10 k $\Omega$<br>>10 k $\Omega$ – 100 k $\Omega$<br>>100 k $\Omega$ – 1 M $\Omega$<br>>1 M $\Omega$ – 10 M $\Omega$<br>>10 M $\Omega$ – 100 M $\Omega$<br>>100 M $\Omega$ – 1 G $\Omega$<br>>1 G $\Omega$ – 10 G $\Omega$ | 0.16 %<br>0.0058 %<br>0.0042 %<br>0.002%<br>0.003 %<br>0.004 %<br>0.008 %<br>0.02 %<br>0.13 %<br>0.17 %<br>1.2 % |

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|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. DC Voltage sourcing instruments<br><br>Lab-In-House procedure UNI-E003 Rev:0 | 0 mV – 100 mV<br>>0.11 V – 1 V<br>>1 V – 10 V<br>>10 V – 100 V<br>>100 V – 1000 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0021 mV<br>0.0012 %<br>0.001 %<br>0.002 %<br>0.005 %                                                                                                                                                                                              |
| 13. AC Voltage sourcing instruments<br><br>Lab-In-House procedure UNI-E003 Rev:0 | <b>1 mV – 10 mV</b><br>3 Hz – 2 kHz<br>>2 kHz – 10 kHz<br>>10 kHz – 30 kHz<br>>30 kHz – 100 kHz<br>>100 kHz – 300 kHz<br><br><b>10 mV – 100 mV</b><br>3 Hz – 2 kHz<br>>2 kHz – 10 kHz<br>>10 kHz – 30 kHz<br>>30 kHz – 100 kHz<br>>100 kHz – 300 kHz<br><br><b>100 mV – 1 V</b><br>3Hz – 2 kHz<br><br><b>1 V – 10 V</b><br>3Hz – 10 kHz<br>>10 kHz – 30 kHz<br>>30 kHz – 100 kHz<br>>100 kHz – 300 kHz<br><br><b>10 V – 100 V</b><br>3 Hz – 2 kHz<br>>2 kHz – 10 kHz<br>>10 kHz – 30 kHz<br>>30 kHz – 100 kHz<br>>100 kHz – 300 kHz<br><br><b>100 V – 1000 V</b><br>3 Hz – 2 kHz<br>>2 kHz – 10 kHz<br>>10 kHz – 30 kHz | 0.26 %<br>0.26 %<br>0.27 %<br>0.53 %<br>1.9 %<br><br>0.57 %<br>0.57 %<br>0.07 %<br>0.19 %<br>1.0 %<br><br>0.02 %<br><br>0.03 %<br>0.05 %<br>0.14 %<br>0.66 %<br><br>0.57 %<br>0.57 %<br>0.10 %<br>0.15 %<br>1.3 %<br><br>0.05 %<br>0.05 %<br>0.10 % |

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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. DC Current sourcing instruments<br><br>Lab-In-House procedure UNI-E003 Rev:0 | $0\ \mu\text{A} - 10\ \mu\text{A}$<br>$>10\ \mu\text{A} - 100\ \mu\text{A}$<br>$>100\ \mu\text{A} - 1\ \text{mA}$<br>$>1\ \text{mA} - 10\ \text{mA}$<br>$>10\ \text{mA} - 100\ \text{mA}$<br>$>100\ \text{mA} - 1\ \text{A}$<br>$>1\ \text{A} - 10\ \text{A}$<br>$1 > 0\ \text{A} - 30\ \text{A}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $0.0018\ \mu\text{A}$<br>$0.017\ \%$<br>$0.025\ \%$<br>$0.012\ \%$<br>$0.02\ \%$<br>$0.13\ \%$<br>$0.1\ \%$<br>$0.30\ \%$                                                                                  |
| 15. AC current sourcing instruments<br><br>Lab-In-House procedure UNI-E003 Rev:0 | <b><math>10\ \mu\text{A} - 100\ \mu\text{A}</math></b><br>$3\ \text{Hz} - 2\ \text{kHz}$<br><br><b><math>100\ \mu\text{A} - 1\ \text{mA}</math></b><br>$3\ \text{Hz} - 10\ \text{kHz}$<br><br><b><math>1\ \text{mA} - 10\ \text{mA}</math></b><br>$3\ \text{Hz} - 30\ \text{kHz}$<br>$>30\ \text{kHz} - 100\ \text{kHz}$<br><br><b><math>10\ \text{mA} - 100\ \text{mA}</math></b><br>$3\ \text{Hz} - 2\ \text{kHz}$<br>$>2\ \text{kHz} - 10\ \text{kHz}$<br>$>10\ \text{kHz} - 30\ \text{kHz}$<br><br><b><math>100\ \text{mA} - 1\ \text{A}</math></b><br>$3\ \text{Hz} - 2\ \text{kHz}$<br>$>2\ \text{kHz} - 10\ \text{kHz}$<br>$>10\ \text{kHz} - 30\ \text{kHz}$<br><br><b><math>1\ \text{A} - 10\ \text{A}</math></b><br>$10\ \text{Hz} - 2\ \text{kHz}$<br>$>2\ \text{kHz} - 10\ \text{kHz}$<br><br><b><math>10\ \text{A} - 30\ \text{A}</math></b><br>$10\ \text{Hz} - 2\ \text{kHz}$<br>$>2\ \text{kHz} - 10\ \text{kHz}$ | $0.40\ \%$<br><br><br>$0.15\ \%$<br><br><br>$0.17\ \%$<br>$0.64\ \%$<br><br>$0.3\ \%$<br>$0.2\ \%$<br>$0.21\ \%$<br><br>$0.57\ \%$<br>$0.21\ \%$<br>$0.2\ \%$<br><br>$0.2\ \%$<br>$0.19\ \%$<br>$0.19\ \%$ |



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|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 16. Frequency sourcing instruments<br><br>Lab-In-House procedure UNI-E003 Rev:0          | 1 Hz – 10 Hz<br>>10 Hz – 1 kHz<br>>1 kHz – 10 kHz<br>>10 kHz – 100 kHz<br>>100 kHz – 1 MHz<br>>1 MHz – 10 MHz<br>>10 MHz – 100 MHz                                        | 0.006 %<br>0.03 %<br>0.0003 %<br>0.0002 %<br>0.001 %<br>0.001 %<br>0.0002 %     |
| 17. Capacitance sourcing instruments<br>@ 1 kHz<br>Lab-In-House procedure UNI-E003 Rev:0 | 0.1 nF – 1.2 nF<br>>1.2 nF – 12 nF<br>>12 nF – 120 nF<br>>120 nF – 1.2 µF<br>>1.2 µF – 12 µF<br>>12 µF – 120 µF<br>>120 µF – 1.2 mF<br>>1.2 mF – 12 mF<br>>12 mF – 100 mF | 2.4 %<br>0.4 %<br>0.2 %<br>0.17 %<br>0.76 %<br>0.3 %<br>0.1 %<br>0.2 %<br>0.1 % |
| 18. DC Power measuring instruments<br><br>Lab-In-House procedure UNI-E001 Rev:0          | 0.02 W – 0.5 W<br>>0.5 W – 5 W<br>>5 W – 50 W<br>>50 W – 1000 W<br>>1 kW – 5 kW<br>>5 kW – 20 kW<br>>20 kW – 30 kW<br>With Coil 30 kW – 1500 kW                           | 0.74 %<br>0.13%<br>0.13 %<br>0.22 %<br>0.33 %<br>0.34 %<br>0.33 %<br>1.0 %      |
| 19. AC Power measuring instruments<br><br>Lab-In-House procedure UNI-E001 Rev:0          | 0.02 W – 0.5 W<br>>0.5 W – 5 W<br>>5 W – 50 W<br>>50 W – 1000 W<br>>1 kW – 5 kW<br>>5 kW – 20 kW<br>>20 kW – 30 kW<br>With Coil 30 kW – 1500 kW                           | 0.60 %<br>0.14%<br>0.23 %<br>0.7 %<br>2.3 %<br>2.3 %<br>3 %<br>4 %              |

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| MEASURED QUANTITIES / INSTRUMENTS / RANGE TO BE CALIBRATED                                                   | Range to be Calibrated / Measured Quantities / Frequency                                                                                                                                                                                             | CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)                                                                                                     |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 20. Low Resistance (Earth resistance) – measuring instruments<br><br>Lab-In-House procedure UNI-E004 Rev:0   | 100 mΩ – 0.199 Ω<br>0.2 Ω – 0.499 Ω<br>0.5 Ω – 1.999 Ω<br>2 Ω – 4.99 Ω<br>5 Ω – 29.9 Ω<br>30 Ω – 199.9 Ω<br>200 Ω – 499.99 Ω<br>500 Ω – 1.999 kΩ<br>2 kΩ – 4.99 kΩ<br>5 kΩ – 10 kΩ                                                                   | 0.013 Ω<br>0.013 Ω<br>0.051 Ω<br>0.019 Ω<br>0.026 Ω<br>0.12 Ω<br>0.49 Ω<br>0.0014 kΩ<br>0.005 kΩ<br>0.014 kΩ                                      |
| High Resistance (Insulation resistance) – measuring instruments                                              | 10 kΩ – 19.999 kΩ<br>20 kΩ – 39.99 kΩ<br>40 kΩ – 99.99 kΩ<br>100 kΩ – 199.99 kΩ<br>200 kΩ – 999.9 kΩ<br>1 MΩ – 1.999 MΩ<br>2 MΩ – 9.999 MΩ<br>10 MΩ – 19.999 MΩ<br>20 MΩ – 199.99 MΩ<br>200 MΩ – 999.9 MΩ<br>1 GΩ – 1.9 GΩ<br>2 GΩ – 10 GΩ<br>100 GΩ | 0.025 kΩ<br>0.047 kΩ<br>0.12 kΩ<br>0.25 kΩ<br>0.47 kΩ<br>0.0081 MΩ<br>0.01 MΩ<br>0.092 MΩ<br>0.60 MΩ<br>1.4 MΩ<br>0.074 GΩ<br>0.077 GΩ<br>0.15 GΩ |
| High Resistance (Insulation resistance source with R multiplier) – measuring Instruments                     | 100 GΩ – 999.9 GΩ                                                                                                                                                                                                                                    | 2.5 GΩ                                                                                                                                            |
| 21. Ground Bond Resistance measuring instruments (fixed points)<br><br>Lab-In-House procedure UNI-E004 Rev:0 | 30 mΩ<br>55 mΩ<br>97 mΩ<br>350 mΩ<br>490 mΩ<br>900 mΩ<br>1.7 Ω<br>4.7 Ω<br>9 Ω<br>17 Ω                                                                                                                                                               | 1.3 mΩ<br>2.1 mΩ<br>2.3 mΩ<br>4.1 mΩ<br>4.4 mΩ<br>9.2 mΩ<br>0.1 Ω<br>0.1 Ω<br>0.1 Ω<br>0.1 Ω                                                      |

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| MEASURED QUANTITIES / INSTRUMENTS / RANGE TO BE CALIBRATED                          | Range to be Calibrated / Measured Quantities / Frequency                                                                                                                                        | CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                     | 47 $\Omega$<br>90 $\Omega$<br>170 $\Omega$<br>470 $\Omega$<br>900 $\Omega$<br>1.7 k $\Omega$                                                                                                    | 0.4 $\Omega$<br>0.6 $\Omega$<br>1.2 $\Omega$<br>3.0 $\Omega$<br>5.9 $\Omega$<br>0.08 k $\Omega$ |
| 22. Leakage Current measuring instruments<br>Lab-In-House procedure UNI-E004 Rev:0  | 0.1 mA – 30 mA                                                                                                                                                                                  | 1.7 %                                                                                           |
| 23. Residual Current measuring instruments<br>Lab-In-House procedure UNI-E004 Rev:0 |                                                                                                                                                                                                 |                                                                                                 |
| Trip current:                                                                       | 3 mA – 3000 mA                                                                                                                                                                                  | 1.8 %                                                                                           |
| 24. Oscilloscope Calibration<br>Lab-In-House procedure UNI-E005 Rev:0               |                                                                                                                                                                                                 |                                                                                                 |
| Vertical Deflection @ DC Signal                                                     | <b>50 <math>\Omega</math> Input</b><br>$\pm 1$ mV – $\pm 24.999$ mV<br>$\pm 25$ mV – $\pm 109.99$ mV<br>$\pm 110$ mV – $\pm 2.1999$ V<br>$\pm 2.2$ V – $\pm 6.6$ V                              | 2 %<br>0.6 %<br>6.4 %<br>0.5 %                                                                  |
|                                                                                     | <b>1 M<math>\Omega</math> Input</b><br>$\pm 1$ mV – $\pm 24.999$ mV<br>$\pm 25$ mV – $\pm 109.99$ mV<br>$\pm 110$ mV – $\pm 2.1999$ V<br>$\pm 2.2$ – $\pm 10.999$ V<br>$\pm 11$ V – $\pm 130$ V | 3.8 %<br>0.49 %<br>0.47%<br>0.46 %<br>0.46 %                                                    |
| Vertical Deflection @ AC Signal                                                     | <b>50 <math>\Omega</math> Input</b><br>1 mVp-p to $\pm 24.999$ mVp-p<br>25 mV p-p – $\pm 109.99$ mVp-p<br>110 mVp-p – $\pm 2.1999$ Vp-p<br>2.2 Vp-p – $\pm 6.6$ Vp-p                            | 1.9 %<br>0.6 %<br>5.3 %<br>0.5 %                                                                |

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|------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------|
| Horizontal Deflection                                                        | <b>1 MΩ Input</b>                                        |                                               |
|                                                                              | ± 1 mVp-p – ± 24.999 mVp-p                               | 3.2 %                                         |
|                                                                              | ± 25 mV – ± 109.99 mVp-p                                 | 0.51 %                                        |
|                                                                              | ± 110 mVp-p – ± 2.1999 Vp-p                              | 0.48%                                         |
|                                                                              | ± 2.2 Vp-p – ± 10.999 Vp-p                               | 0.47 %                                        |
|                                                                              | ± 11 Vp-p – ± 130 Vp-p                                   | 0.47 %                                        |
|                                                                              | 2 ns – 5 ns                                              | 0.063 %                                       |
|                                                                              | >5 ns – 10 ns                                            | 0.081 %                                       |
|                                                                              | >10 ns – 20 ns                                           | 0.073 %                                       |
|                                                                              | >20 ns – 50 ns                                           | 0.061 %                                       |
|                                                                              | >50 ns – 50 µs                                           | 0.095 %                                       |
|                                                                              | >50 µs – 20 ms                                           | 0.073 %                                       |
|                                                                              | >20 ms – 50 ms                                           | 0.061 %                                       |
|                                                                              | >50 ms – 5 s                                             | 0.14%                                         |
|                                                                              | 50 kHz – 100 MHz                                         | 0.26 dB                                       |
| Bandwidth                                                                    | >100 MHz – 300 MHz                                       | 0.30 dB                                       |
|                                                                              | >300 MHz – 600 MHz                                       | 0.48 dB                                       |
|                                                                              | >600 MHz – 1100 MHz                                      | 0.57 dB                                       |
| 25. Calibration of Stop Watch Timer<br>Lab In-House procedure UNI-E006 Rev:0 | 1 s – 60 s                                               | 0.25 s                                        |
|                                                                              | 61 s – 600 s                                             | 0.13 s                                        |
|                                                                              | 601 s – 1200 s                                           | 0.13 s                                        |
|                                                                              | 1201 s – 1800 s                                          | 0.13 s                                        |
|                                                                              | 1801 s – 3600 s                                          | 0.13 s                                        |
|                                                                              | 3601 s – 7200 s                                          | 0.13 s                                        |
|                                                                              | 7201 – 10800 s                                           | 0.13 s                                        |
|                                                                              |                                                          |                                               |
| 26. Resistance measuring instrument<br>Lab In-House procedure UNI-E001 Rev:1 | 0 Ω                                                      | 0.041 mΩ                                      |
|                                                                              | 1 Ω                                                      | 0.096 mΩ                                      |
|                                                                              | 1.9 Ω                                                    | 0.19 mΩ                                       |
|                                                                              | 10 Ω                                                     | 0.24 mΩ                                       |
|                                                                              | 19 Ω                                                     | 0.45 mΩ                                       |
|                                                                              | 100 Ω                                                    | 1.1 mΩ                                        |
|                                                                              | 190 Ω                                                    | 0.002 Ω                                       |
|                                                                              | 1 kΩ                                                     | 0.0068 Ω                                      |
|                                                                              | 1.9 kΩ                                                   | 0.013 Ω                                       |

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|--------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------|
|                                                                                | 10 k $\Omega$                                            | 0.068 $\Omega$                                |
|                                                                                | 19 k $\Omega$                                            | 0.13 $\Omega$                                 |
|                                                                                | 100 k $\Omega$                                           | 0.87 $\Omega$                                 |
|                                                                                | 190 k $\Omega$                                           | 1.7 $\Omega$                                  |
|                                                                                | 1 M $\Omega$                                             | 0.014 k $\Omega$                              |
|                                                                                | 1.9 M $\Omega$                                           | 0.036 k $\Omega$                              |
|                                                                                | 10 M $\Omega$                                            | 0.42 k $\Omega$                               |
|                                                                                | 19 M $\Omega$                                            | 0.0010 M $\Omega$                             |
|                                                                                | 100 M $\Omega$                                           | 0.067 M $\Omega$                              |
| <b>B. TEMPERATURE</b>                                                          |                                                          |                                               |
| 1. a) RTD, PRT Sensor with Indicator & Temperature Measuring instruments (Lab) | -80 $^{\circ}\text{C}$ – -40 $^{\circ}\text{C}$          | 0.011 $^{\circ}\text{C}$                      |
|                                                                                | >-40 $^{\circ}\text{C}$ – 0 $^{\circ}\text{C}$           | 0.01 $^{\circ}\text{C}$                       |
|                                                                                | >0 $^{\circ}\text{C}$ – 50 $^{\circ}\text{C}$            | 0.01 $^{\circ}\text{C}$                       |
| Lab In-House procedure UNI-T001 Rev:0                                          | >50 $^{\circ}\text{C}$ – 140 $^{\circ}\text{C}$          | 0.01 $^{\circ}\text{C}$                       |
|                                                                                | >140 $^{\circ}\text{C}$ – 210 $^{\circ}\text{C}$         | 0.01 $^{\circ}\text{C}$                       |
|                                                                                | >210 $^{\circ}\text{C}$ – 270 $^{\circ}\text{C}$         | 0.011 $^{\circ}\text{C}$                      |
|                                                                                | >270 $^{\circ}\text{C}$ – 450 $^{\circ}\text{C}$         | 0.018 $^{\circ}\text{C}$                      |
|                                                                                | >450 $^{\circ}\text{C}$ – 500 $^{\circ}\text{C}$         | 0.02 $^{\circ}\text{C}$                       |
|                                                                                | >500 $^{\circ}\text{C}$ – 660 $^{\circ}\text{C}$         | 0.39 $^{\circ}\text{C}$                       |
| (Site)                                                                         | -95 $^{\circ}\text{C}$ – 0 $^{\circ}\text{C}$            | 0.066 $^{\circ}\text{C}$                      |
|                                                                                | >0 $^{\circ}\text{C}$ – 60 $^{\circ}\text{C}$            | 0.033 $^{\circ}\text{C}$                      |
|                                                                                | >60 $^{\circ}\text{C}$ – 140 $^{\circ}\text{C}$          | 0.047 $^{\circ}\text{C}$                      |
|                                                                                | >140 $^{\circ}\text{C}$ – 270 $^{\circ}\text{C}$         | 0.26 $^{\circ}\text{C}$                       |
|                                                                                | >270 $^{\circ}\text{C}$ – 450 $^{\circ}\text{C}$         | 0.33 $^{\circ}\text{C}$                       |
|                                                                                | >450 $^{\circ}\text{C}$ – 660 $^{\circ}$                 | 0.39 $^{\circ}\text{C}$                       |
| b) Thermocouple Wire with Indicator (Lab)                                      | -80 $^{\circ}\text{C}$ - -40 $^{\circ}\text{C}$          | 0.17 $^{\circ}\text{C}$                       |
|                                                                                | >-40 $^{\circ}\text{C}$ – 0 $^{\circ}\text{C}$           | 0.17 $^{\circ}\text{C}$                       |
|                                                                                | >0 $^{\circ}\text{C}$ – 50 $^{\circ}\text{C}$            | 0.17 $^{\circ}\text{C}$                       |
|                                                                                | >50 $^{\circ}\text{C}$ – 140 $^{\circ}\text{C}$          | 0.17 $^{\circ}\text{C}$                       |
|                                                                                | >140 $^{\circ}\text{C}$ - -210 $^{\circ}\text{C}$        | 0.17 $^{\circ}\text{C}$                       |
|                                                                                | >210 $^{\circ}\text{C}$ – 270 $^{\circ}\text{C}$         | 0.17 $^{\circ}\text{C}$                       |
|                                                                                | >270 $^{\circ}\text{C}$ – 450 $^{\circ}\text{C}$         | 0.17 $^{\circ}\text{C}$                       |

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|------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------|
| (Site)                                                     | >270 °C – 450 °C                                         | 0.17 °C                                       |
|                                                            | >450 °C – 500 °C                                         | 0.17 °C                                       |
|                                                            | >500 °C – 660 °C                                         | 0.53 °C                                       |
|                                                            | >660 °C – 800 °C                                         | 0.9 °C                                        |
|                                                            | >800 °C – 1000 °C                                        | 0.9 °C                                        |
|                                                            | -95 °C – 0 °C                                            | 0.29 °C                                       |
|                                                            | >0 °C – 60 °C                                            | 0.24 °C                                       |
|                                                            | >60 °C – 140 °C                                          | 0.24 °C                                       |
|                                                            | >140 °C – 270 °C                                         | 0.31 °C                                       |
|                                                            | >270 °C – 450 °C                                         | 0.33 °C                                       |
|                                                            | >450 °C – 660 °C                                         | 0.4 °C                                        |
|                                                            | (C) Temperature Indicator with other Sensors (Lab)       |                                               |
|                                                            | -80 °C – 0 °C                                            | 0.14 °C                                       |
|                                                            | >0 °C – 50 °C                                            | 0.12 °C                                       |
| (Site)                                                     | >50 °C – 140 °C                                          | 0.12 °C                                       |
|                                                            | >140 °C – 210 °C                                         | 0.13 °C                                       |
|                                                            | >210 °C – 270 °C                                         | 0.13 °C                                       |
|                                                            | >270 °C – 450 °C                                         | 0.13 °C                                       |
|                                                            | >450 °C – 500 °C                                         | 0.13 °C                                       |
|                                                            | >500 °C – 660 °C                                         | 0.53 °C                                       |
|                                                            | -95 °C – 0 °C                                            | 0.17 °C                                       |
|                                                            | >0 °C – 60 °C                                            | 0.13 °C                                       |
|                                                            | >60 °C – 140 °C                                          | 0.13 °C                                       |
|                                                            | >140 °C – 270 °C                                         | 0.28 °C                                       |
|                                                            | >270 °C – 450 °C                                         | 0.35 °C                                       |
|                                                            | >450 °C – 660 °C                                         | 0.4 °C                                        |
|                                                            | 2. Fixed Point RTD Sensor                                |                                               |
|                                                            | Approx. -196.0 °C                                        | 0.012 °C                                      |
| Lab In-House procedure UNI-T002 Rev:0                      | 0.01 (TPW)                                               | 3 mK                                          |
|                                                            | 29.7647 (Gallium)                                        | 3 mK                                          |
|                                                            | 660.3226 (Aluminium)                                     | 9 mK                                          |
| Thermistor                                                 | 0.01 (TPW)                                               | 3 mK                                          |
|                                                            | 29.7647 (Gallium)                                        | 3 mK                                          |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>3. RTD Sensor without Indicator, PRT Sensor without Indicator &amp; Temperature measuring instruments (Lab)</p> <p>Lab In-House procedure UNI-T003 Rev:0</p> <p>(Site)</p> | <p>-80 °C - -40 °C</p> <p>&gt;-40 °C – 0 °C</p> <p>&gt;0 °C – 50 °C</p> <p>&gt;50 °C – 140 °C</p> <p>&gt;140 °C – 210 °C</p> <p>&gt;210 °C – 270 °C</p> <p>&gt;270 °C – 500 °C</p> <p>&gt;500 °C – 660 °C</p> <p>-95 °C – 60 °C</p> <p>&gt;60 °C – 140 °C</p> <p>&gt;140 °C – 270 °C</p> <p>&gt;270 °C – 450 °C</p> <p>&gt;450 °C – 660 °C</p>                                                                                   | <p>0.01 °C</p> <p>0.01 °C</p> <p>0.01 °C</p> <p>0.012 °C</p> <p>0.012 °C</p> <p>0.02 °C</p> <p>0.03 °C</p> <p>0.39 °C</p> <p>0.6 °C</p> <p>0.35 °C</p> <p>0.43 °C</p> <p>0.47 °C</p> <p>0.52 °C</p>                                       |
| <p>4. Thermocouple Wire without Indicator (Lab)</p> <p>Lab In-House procedure UNI-T004 Rev:0</p> <p>(Site)</p>                                                                | <p>-80 °C - -40 °C</p> <p>&gt;-40 °C – 0 °C</p> <p>&gt;0 °C – 50 °C</p> <p>&gt;50 °C – 140 °C</p> <p>&gt;140 °C – 210 °C</p> <p>&gt;210 °C – 270 °C</p> <p>&gt;270 °C – 450 °C</p> <p>&gt;450 °C – 500 °C</p> <p>&gt;500 °C – 660 °C</p> <p>&gt;660 °C – 800 °C</p> <p>&gt;800 °C – 1000 °C</p> <p>-95 °C – 60 °C</p> <p>&gt;60 °C – 140 °C</p> <p>&gt;140 °C – 280 °C</p> <p>&gt;280 °C – 450 °C</p> <p>&gt;450 °C – 660 °C</p> | <p>0.8 °C</p> <p>0.8 °C</p> <p>0.36 °C</p> <p>0.36 °C</p> <p>0.36 °C</p> <p>0.36 °C</p> <p>0.36 °C</p> <p>0.36 °C</p> <p>0.5 °C</p> <p>1.0 °C</p> <p>1.1 °C</p> <p>0.72 °C</p> <p>0.71 °C</p> <p>0.77 °C</p> <p>0.78 °C</p> <p>0.8 °C</p> |

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|---------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------|
| 5 (a) Connecting Thermocouple wire                            |                                                                |                                                     |         |
| Type S                                                        | 0 °C – 30 °C                                                   | 0.0003 mV                                           |         |
| Type R                                                        |                                                                | 0.0003 mV                                           |         |
| Type J                                                        |                                                                | 0.001 mV                                            |         |
| Type K                                                        |                                                                | 0.0008 mV                                           |         |
| Type N                                                        |                                                                | 0.0005 mV                                           |         |
| Type T                                                        |                                                                | 0.0008 mV                                           |         |
| Type E                                                        |                                                                | 0.0012 mV                                           |         |
| (b) C/J Thermocouple Wire                                     |                                                                |                                                     |         |
| Type S                                                        | 0 °C – 30 °C                                                   | 0.0002 mV                                           |         |
| Type R                                                        |                                                                | 0.0002 mV                                           |         |
| Type J                                                        |                                                                | 0.0007 mV                                           |         |
| Type K                                                        |                                                                | 0.0006 mV                                           |         |
| Type N                                                        |                                                                | 0.0006 mV                                           |         |
| Type T                                                        |                                                                | 0.0006 mV                                           |         |
| Type E                                                        |                                                                | 0.0008 mV                                           |         |
| 6. Thermocouple Indicator                                     |                                                                |                                                     |         |
| Lab In-House procedure UNI-T005<br>Rev:0                      |                                                                |                                                     |         |
| Type K                                                        | -200 °C - -100 °C                                              | 0.10 °C                                             | 0.91 °C |
|                                                               | >-100 °C - -25 °C                                              | 0.07 °C                                             | 0.55 °C |
|                                                               | >-25 °C – 120 °C                                               | 0.06 °C                                             | 0.55 °C |
|                                                               | >120 °C – 600 °C                                               | 0.06 °C                                             | 0.55 °C |
|                                                               | >600 °C – 1000 °C                                              | 0.06 °C                                             | 0.72 °C |
|                                                               | >1000 °C – 1372 °C                                             | 0.07 °C                                             | 0.91 °C |
| Type: N                                                       | -200 °C - -100 °C                                              | 0.08 °C                                             | 0.68 °C |
|                                                               | >-100 °C - -25 °C                                              | 0.06 °C                                             | 0.82 °C |
|                                                               | >-25 °C – 120 °C                                               | 0.06 °C                                             | 0.82 °C |
|                                                               | >120 °C – 410 °C                                               | 0.05 °C                                             | 0.82 °C |
|                                                               | >410 °C – 1000 °C                                              | 0.05 °C                                             | 0.82 °C |
|                                                               | >1000 °C – 1300 °C                                             | 0.06 °C                                             | 0.91 °C |
| Type: J                                                       | -210 - -100 °C                                                 | 0.13 °C                                             | 0.91 °C |
|                                                               | >-100 °C - -30 °C                                              | 0.08 °C                                             | 0.64 °C |
|                                                               | >-30 °C – 150 °C                                               | 0.07 °C                                             | 0.64 °C |
|                                                               | >150 °C – 760 °C                                               | 0.07 °C                                             | 0.64 °C |
|                                                               | >760 °C – 1000 °C                                              | 0.07 °C                                             | 0.81 °C |
|                                                               | >1000 °C – 1200 °C                                             | 0.07 °C                                             | 0.81 °C |



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|---------------------------------------------------------------|------------------------|----------------------------------------------------------------|-------------------|-----------------------------------------------------|---------|--|--|
| 7.                                                            | Type: T                | -250 °C – -150 °C                                              | (Lab)             | (Site)                                              |         |  |  |
|                                                               |                        | >-150 °C – 0 °C                                                | 0.11 °C           | 2.2 °C                                              |         |  |  |
|                                                               |                        | >0 °C – 120 °C                                                 | 0.10 °C           | 0.55 °C                                             |         |  |  |
|                                                               |                        | >120 °C – 400 °C                                               | 0.09 °C           | 0.55 °C                                             |         |  |  |
|                                                               | Type: R                | 0 °C – 250 °C                                                  | 0.09 °C           | 0.55 °C                                             |         |  |  |
|                                                               |                        | >250 °C – 400 °C                                               | 0.20 °C           | 2.0 °C                                              |         |  |  |
|                                                               |                        | >400 °C – 1000 °C                                              | 0.20 °C           | 1.5 °C                                              |         |  |  |
|                                                               |                        | >1000 °C – 1770 °C                                             | 0.10 °C           | 1.5 °C                                              |         |  |  |
|                                                               | Type: S                |                                                                | 0.13 °C           | 1.5 °C                                              |         |  |  |
|                                                               |                        | 0 °C – 250 °C                                                  | 0.15 °C           | 2.0 °C                                              |         |  |  |
|                                                               |                        | >250 °C – 1000 °C                                              | 0.13 °C           | 1.3 °C                                              |         |  |  |
|                                                               |                        | >1000 °C – 1400 °C                                             | 0.13 °C           | 1.3 °C                                              |         |  |  |
|                                                               | Type: E                | >1400 °C – 1760 °C                                             | 0.13 °C           | 1.6 °C                                              |         |  |  |
|                                                               |                        | -250 °C - -150 °C                                              | 0.17 °C           | 1.7 °C                                              |         |  |  |
|                                                               |                        | >-150 °C - -25 °C                                              | 0.11 °C           | 0.6 °C                                              |         |  |  |
|                                                               |                        | >-25 °C – 350 °C                                               | 0.10 °C           | 0.6 °C                                              |         |  |  |
|                                                               | Thermocouple Simulator | >350 °C – 650 °C                                               | 0.10 °C           | 0.68 °C                                             |         |  |  |
|                                                               |                        | >650 °C – 1000 °C                                              | 0.10 °C           | 0.68 °C                                             |         |  |  |
|                                                               |                        | Lab In-House procedure UNI-T005<br>Rev:0                       |                   |                                                     |         |  |  |
|                                                               |                        | Type: K                                                        | -200 °C - -100 °C | (Lab)                                               | (Site)  |  |  |
|                                                               |                        |                                                                | >-100 °C - -25 °C | 0.13 °C                                             | 0.62 °C |  |  |
|                                                               |                        |                                                                | >25 °C – 120 °C   | 0.07 °C                                             | 0.55 °C |  |  |
|                                                               |                        |                                                                | >120 °C – 600 °C  | 0.05 °C                                             | 0.55 °C |  |  |
|                                                               |                        |                                                                | >600 °C – 1000 °C | 0.05 °C                                             | 0.55 °C |  |  |
| >1000 °C – 1372 °C                                            |                        |                                                                | 0.05 °C           | 0.55 °C                                             |         |  |  |
| Type: N                                                       |                        |                                                                | 0.06 °C           | 0.55 °C                                             |         |  |  |
|                                                               |                        | -200 °C - -100 °C                                              | 0.19 °C           | 0.91 °C                                             |         |  |  |
|                                                               |                        | >-100 °C - -25 °C                                              | 0.09 °C           | 0.82 °C                                             |         |  |  |
|                                                               | >-25 °C – 120 °C       | 0.08 °C                                                        | 0.82 °C           |                                                     |         |  |  |
|                                                               | >120 °C – 410 °C       | 0.06 °C                                                        | 0.82 °C           |                                                     |         |  |  |
|                                                               | >410 °C – 1000 °C      | 0.05 °C                                                        | 0.68 °C           |                                                     |         |  |  |
| >1000 °C – 1300 °C                                            |                        |                                                                |                   |                                                     |         |  |  |
|                                                               | 0.05 °C                | 0.68 °C                                                        |                   |                                                     |         |  |  |

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|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Type: J                                                       | -210 °C – -100 °C<br>>-100 °C – -30 °C<br>>-30 °C – 150 °C<br>>150 °C – 760 °C<br>>760 °C – 1000 °C<br>>1000 °C – 1200 °C | (Lab)<br>0.16 °C<br>0.08 °C<br>0.06 °C<br>0.06 °C<br>0.05 °C<br>0.05 °C | (Site)<br>0.63 °C<br>0.57 °C<br>0.57 °C<br>0.57 °C<br>0.63 °C<br>0.63 °C |
| Type: T                                                       | -250 °C – -150 °C<br>>-150 °C – 0 °C<br>>0 °C – 120 °C<br>>120 °C – 400 °C                                                | 0.14 °C<br>0.10 °C<br>0.05 °C<br>0.05 °C                                | 1.3 °C<br>0.61 °C<br>0.61 °C<br>0.61 °C                                  |
| Type: R                                                       | 0 °C – 250 °C<br>>250 °C – 400 °C<br>>400 °C – 1000 °C<br>>1000 °C – 1770 °C                                              | 0.38 °C<br>0.19 °C<br>0.19 °C<br>0.16 °C                                | 1.6 °C<br>1.4 °C<br>1.4 °C<br>1.4 °C                                     |
| Type: S                                                       | 0 °C – 250 °C<br>>250 °C – 1000 °C<br>>1000 °C – 1400 °C<br>>1400 °C – 1760 °C                                            | 0.38 °C<br>0.18 °C<br>0.18 °C<br>0.19 °C                                | 1.6 °C<br>1.3 °C<br>1.4 °C<br>1.3 °C                                     |
| Type: E                                                       | -250 °C – -150 °C<br>>-150 °C – -25 °C<br>>-25 °C – 350 °C<br>>350 °C – 650 °C<br>>650 °C – 1000 °C                       | 0.25 °C<br>0.07 °C<br>0.04 °C<br>0.03 °C<br>0.03 °C                     | 0.91 °C<br>0.64 °C<br>0.64 °C<br>0.57 °C<br>0.57 °C                      |
| 8. RTD and PRT Indicator                                      |                                                                                                                           |                                                                         |                                                                          |
| Lab In-House procedure UNI-T005<br>Rev:0                      | -200 °C – -80 °C<br>>-80 °C – 0 °C<br>>0 °C – 100 °C                                                                      | 0.06 °C<br>0.06 °C<br>0.07 °C                                           | 0.1 °C<br>0.1 °C<br>0.1 °C                                               |
| (Lab / Site)                                                  | >100 °C – 300 °C<br>>300 °C – 400 °C<br>>400 °C – 630 °C<br>>630 °C – 800 °C                                              | 0.10 °C<br>0.11 °C<br>0.14 °C<br>0.23 °C                                | 0.15 °C<br>0.17 °C<br>0.22 °C<br>0.25 °C                                 |
| TYPE: PT 385 (100Ω)                                           |                                                                                                                           |                                                                         |                                                                          |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>9. RTD Simulator</p> <p>Lab In-House procedure UNI-T006</p> <p>Rev:0</p> <p>(Lab / Site)</p> <p>TYPE: PT 385 (100Ω)</p>                                                                                                                                                                                        | <p>-200 °C – 80 °C</p> <p>&gt;80 °C – 100 °C</p> <p>&gt;100 °C – 200 °C</p> <p>&gt;200 °C – 400 °C</p> <p>&gt;400 °C – 800 °C</p> <p>-</p>                                               | <p>0.02 °C    0.15 °C</p> <p>0.01 °C    0.15 °C</p> <p>0.01 °C    0.16 °C</p> <p>0.01 °C    0.27 °C</p> <p>0.01 °C    0.27 °C</p>                       |
| <p>10. Dry Block Calibrator</p> <p>Lab In-House procedure UNI-T007</p> <p>Rev:0</p> <p>(Lab / Site)</p>                                                                                                                                                                                                           | <p>-95 °C – 140 °C</p> <p>&gt;140 °C – 450 °C</p> <p>&gt;450 °C – 600 °C</p>                                                                                                             | <p>0.035 °C</p> <p>0.05 °C</p> <p>0.052 °C</p>                                                                                                          |
| <p>11. Non-Contact Temperature Infrared<br/>Thermometer / Thermal imager</p> <p>Lab In-House procedure UNI-T008</p> <p>Rev:0</p> <p>Emissivity: 0.90 – 1.00</p> <p>Spectral Band: 8 to 14 μm</p>                                                                                                                  | <p>5 °C – 35 °C</p> <p>35 °C – 100 °C</p> <p>&gt;100 °C – 200 °C</p> <p>&gt;200 °C – 350 °C</p> <p>&gt;350 °C – 500 °C</p>                                                               | <p>0.9 °C</p> <p>1.1 °C</p> <p>4.9 °C</p> <p>5.7 °C</p> <p>5.8 °C</p>                                                                                   |
| <p>12. Humidity / Temperature measuring<br/>instruments</p> <p>Lab In-House procedure UNI-T009</p> <p>Rev:0</p> <p>(Lab / Site)</p> <p>(Used Reference Probe)</p> <p>Temperature:</p> <p>Humidity:</p> <p>Lab:</p> <p>(Used Chilled Mirror)</p> <p>Temperature</p> <p>Humidity</p> <p>Fixed Temperature @23°C</p> | <p>5 °C – 50 °C</p> <p>(5 – 90) % relative humidity</p> <p>5 °C – 50 °C</p> <p>(5 – 90) % relative humidity</p> <p>(5 – 50) % relative humidity</p> <p>(50 – 90) % relative humidity</p> | <p>0.3 °C</p> <p>2.4 % relative humidity</p> <p>0.2 °C</p> <p>1.3 % relative humidity</p> <p>0.7 % relative humidity</p> <p>1.3 % relative humidity</p> |

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| MEASURED QUANTITIES / INSTRUMENTS / RANGE TO BE CALIBRATED                                                                           | Range to be Calibrated / Measured Quantities / Frequency                                                                         | CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)                      |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>13. Temperature Enclosure</b><br><br>Lab In-House procedure UNI-T010<br>Rev:0<br><br>(Lab / Site)<br><br>Freezers Oven & Furnaces | -80 °C – -40 °C<br>-40 °C – 50 °C<br>50 °C – 160 °C<br>160 °C – 200 °C<br>200 °C – 600 °C<br>600 °C – 800 °C<br>800 °C – 1000 °C | 0.4 °C<br>0.4 °C<br>0.4 °C<br>1.1 °C<br>2.6 °C<br>2.6 °C<br>3.7 °C |
| <b>14 Liquid Bath</b><br><br>Lab In-House procedure UNI-T011<br>Rev:0<br><br>Stability<br>Axial Uniformity<br>Radial Uniformity      | -80 °C – 270 °C                                                                                                                  | 0.004 °C<br>0.006 °C<br>0.005 °C                                   |
| <b>C. PRESSURE</b>                                                                                                                   |                                                                                                                                  |                                                                    |
| <b>1. Pneumatic Pressure Instruments (Lab &amp; Site)</b><br><br>Lab In-House procedure UNI-P001<br>Rev:0                            | -13 psi to 30 psi<br>30 psi to 1000 psi                                                                                          | 0.008 psi<br>0.25 psi                                              |
| <b>2. Hydraulic Pressure Instruments (Lab &amp; Site)</b><br><br>Lab In-House procedure UNI-P002<br>Rev:0                            | 0 psi to 1000 psi<br>1000 psi to 10000 psi                                                                                       | 0.25 psi<br>2.6 psi                                                |
| <b>3 Low Pressure &amp; Differential Pressure Instruments (Lab &amp; Site)</b><br><br>Lab In-House procedure UNI-P003<br>Rev:0       | -2 in H <sub>2</sub> O to 2 in H <sub>2</sub> O                                                                                  | 0.0016 in H <sub>2</sub> O                                         |

\* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95 %.

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## Approved Signatories

- |                         |                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Mr Gavin Tan            | - For Electrical, A1 to A19                                                                                             |
| Mr Prabhakar Sundararaj | - For Temperature, B1 to B3 and B5 to B11only<br>For Electrical, all items in Cat A<br>For Pressure, all items in Cat C |
| Mr S.Karuppiah          | - For All items (Cat A, B & C)                                                                                          |

## Note :

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. A laboratory's fulfilment of the requirements of ISO/IEC 17025:2017 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibration results. The **management system requirements** in ISO/IEC 17025:2017 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.