CERTIFICATE OF CALIBRATION

Issued By :

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Reflecting the Truth

C-035
Electro- Technical

UKAS CALIBRATION
0616

Certificate number: YMPL/91683/11419

1.	Name and address of client:-	SONAA ENGINEERS PVT. LTD. 308-310 SUBHAM COMPLEX NEW FETEHPURA, UDAIPUR (RAJ.)
2.	Reference:-	
	Service request form number:	2006-2007/1609
	Date:	17th February, 2007
	Date of the receipt of the equipment:	17th February, 2007
	Condition on item:	Satisfactory
3.	Calibration detail :-	
	Date of issue :	22nd February, 2007
	Date of calibration :	17th February, 2007
	Due date of calibration:	17th February, 2010
4.	Description of equipment under calibration:-	
	Name:	Earth resistance tester
	Serial number:	988840
	Model/Type:	N/A
	Make:	WACO
5.	Environmental conditions of measurements:	
	Temperature:	25±2°C
	Relative humidity:	≤70%

6. Description of reference standards used :-

Reference standard	Calibration valid upto	Traceability	Parameters
Digital multimeter (61/2 digit) Model:34401A Make: Hewlett Packard I/S No. 731	7th December, 2007	ETDC, Bangalore via YMPL Standards	Resistance

7. Results: The results and calibration procedure are given on the next page.

Remarks :-

1. For k=2
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS/NABL requirements. ☑
2. For k≠2
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k, which for a t-distribution corresponds to a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. ☒
3. This report is specific for E.U.C. for environmental and other conditions mentioned in this report. ☑
4. The reported uncertainty applies only to the measured value and gives no indication of the long term stability of the device. ☑
5. The instrument has been calibrated for calibration points required by customer. ☑
6. The calibration due date has been mentioned as requested by customer in writing. ☑

Checked by : RMP RSD

Approved by : Dinesh Paliwal

Sign. :

Name : DPS

7(a). **Calibration procedure**:-OP/YMPL/14
Equipment under calibration has been calibrated for resistance by feeding the same from precision decade Ω resistance box and same resistance fed to reference standard. At least 6 measurements are made for each value and an average of these has been reported in the results. EUC was powered up from its internal supply source and warmed up for at least 15 Minute.

7(b). **Result**: - The Earth resistance tester has been calibrated for resistance measurement. The expanded uncertainty of our measurement is given in front of each measurement & calculated at 95 % CL. The results are as following.

8. **Accuracy calibration results:-**

Range	Measured value (Ω)	Standard value (Ω)	%Expanded uncertainty(±)	Coverage factor(k)
10 Ω	1.05	1.063	0.72	2.00
	5.04	5.058	0.21	2.00
	9.02	9.058	0.15	2.00
1000 Ω	103	100.3	0.58	2.00
	503	500.6	0.18	2.00
	784	800.6	0.14	2.00

Checked by :	Approved by :
RMP RSD	