



ROOTS INDUSTRIES INDIA LIMITED
ROOTS METROLOGY & TESTING LABORATORY
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NABL/ILAC/024

NABL ACCREDITATION
 CERTIFICATE NO CC-2752

CALIBRATION CERTIFICATE

ULR Number: CC275219000083790F

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|---|---|
| Name and address of the customer The Medical Officer Government Primary Health Centre vadaseri–thanjavur (dist) | Certificate no : Rmtl/01/319107852/19 Date of calibration :1/10/2023 Suggested calibration due : 30/09/2024 Customer po .reference.& date: |
|---|---|

1.DESRIPTION OF DUC

| | |
|--|---|
| Name Of The Duc: CENTRIFUGE Make :labotech Model : bdi 152 Sl.No : na Range/Size : 1-4000RPM/230v | Receiving Condition Of Duc :Good Ref. Document :As Per Manufactures Specification Environmental Condition :25.3 Deg & 54.3% Rh Uncertainty Of Measurement :As Per Report Location :lab |
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THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC 17025.

2.DETAILED OF MASTER USED

| Standard Instrument Used | Make/ Model | Id No | Traceable To/Certificate No | Validity |
|---|-------------|-----------|---|----------|
| Decade Megohm | Vaisashika | Rml-230 | Vaiseshika,Ambala Cantt/Ved/Nabl/18-19(Et)/92 | 1-6-2024 |
| Digital Tachometer | Mextec | Rml-251 | Gsg/19/206/Tm/01 | 1-6-2024 |
| Multi Product Calibrator | Fluke | Rml-262 | Wavecal,Blr/Cs-18/01-01 | 1-6-2024 |
| Multi Product Calibrator (Ac/Dc Current Coil) | Transmille | Rml-252-1 | Wavecal,Blr/Cs-18/69-01 | 1-6-2024 |
| Leakage Current Tester | Htc/CI-2054 | Rml-254-1 | Rmtl/01/319107848 | 1-6-2024 |

CALIBRATION FIELD: Electro Technical (Voltage Calibration -Ac)

| Sl.no | Range | Master readings v | Calibrated values v | Error observed v | Uncertainty v |
|-------|-------------|-------------------|---------------------|------------------|---------------|
| 1 | 0 v to 400v | 230 | 231 | 1 | 0.055 |

CURRENT CALIBRATIONAc Current @50Hz

| Sl.no | Range | Master readings mA | Calibrated values mA | Error observed mA | Uncertainty mA |
|-------|-----------|--------------------|----------------------|-------------------|----------------|
| 1 | 40Ma-100A | 2 | 2.002 | -0.002 | 0.045 |

Resistance calibration

| Sl.no | Range | Master readings ohms | Calibrated values ohms | Error observed ohms | Uncertainty Ohms |
|-------|-------|----------------------|------------------------|---------------------|------------------|
| 1 | 40 | 39 | 39.01 | 0.001 | 0.007 |

CALIBRATION FIELD: RPM Calibration

| Sl.no | Range | Master readings RPM | Calibrated values RPM | Error observed RPM | Uncertainty RPM |
|-------|-----------------|---------------------|-----------------------|--------------------|-----------------|
| 1 | 1RPM to 4000RPM | 1600RPM | 1599RPM | 1RPM | 0.055 |

4.remarks

4.1 uncertainty estimated for a confidence level of 95% at the k factor=2

4.2the reported results are valid only for the condition of the inst./gauge received at the time of and under the condition of the calibration

4.3 DUC –device under calibration

Calibration label /status : Calibration result pass & fail are indicated

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|--------------------------|----------------------|---------------------|---|
| CALIBRATION ENGINEER | CALIBRATION SEAL | AUTHORIZED SIGN | This Report Refers Only To The Sample Submitted And May Not Be Reproduces In Full Or In Part, Without Written Permission From Roots Metrology & Testing Laboratory, Coimbatore, |
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