

CALIBRATION CERTIFICATE

Certificate No: : 2602 **Issued Date** : 08.02.2026
Date of Calibration : 08.02.2026 **Valid Up to** : 12 Months

Name & Address of Customer: : ICAR CENTRAL TOBACCO RESEARCH INSTITUTE AP
 INDIAN COUNCIL OF AGRICULTURAL RESEARCH
 BHASKAR NAGAR, RAJAHMUNDRY
 ANDHRA PRADESH 533105 INDIA

Instrument Name : Atomic Absorption Spectrophotometer
Model No/Type No : AAS PLUS
MAKE : MOTRAS SCIENTIFIC
Serial No. : 1011924253

Wavelength Range: 185 nm to 900 nm

Accuracy: +/-0.5 nm

Calibration Method Used: Photometric Linearity

Standard Used: Copper Standard of 5 ppm giving 0.932 Abs. and peak found at 324.7 nm

Environmental Condition: As per lab condition at 25 C

Measurement Results: -

1. **Power Supply:** 230V \pm 10% AC single phase 250VA (Checked) OK
2. **Wavelength Accuracy:** Done with Cu & Zn Lamp and Zero order. OK
3. **Log Calibration:** Done 100% T = 0.00 Abs + 10% T = 1.00 Abs OK
4. **Absorbance Calibration:** HCL of Zn/Fe/Mn/Cu OK
5. **Linearity Check:** 1.25, 2.5, 5.0 ppm Cu standard found OK
6. **Stray light Check:** N.A.
7. **Burner / Nebulizer:** Adjusted OK
8. **Mechanical Check:** OK

The measurement of uncertainty at 95% confidence level is 0.004 Abs. OK

Remarks: PASSED

For Motras Scientific Instruments Pvt. Ltd

J.C. Purohit



Authorized Signatory