



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SOLAR LIGHTING LABORATORY, TERI, PLOT NO. 10, INSTITUTIONAL AREA, VASANT KUNJ, NEW DELHI, DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8281 Page No. : 1 / 2

Validity 10/01/2019 to 09/01/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

| S.No | Discipline / Group | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing/ Limits of Detection |
|---------------------------|---------------------------|--|--|---|---------------------------------------|
| Permanent Facility | | | | | |
| 1 | ELECTRICAL- MISCELLANEOUS | Rechargeable Batteries and Secondary cell and Battery for Solar Photovoltaic application | Battery Test (a) Battery capacity (b) Battery round-trip energy efficiency (c) Battery durability | CI No. 4.2.5.1, 4.2.5.2 & 4.2.5.3 IEC/TS 62257-9-5: 2018 | 25 mAh to 20 Ah |
| 2 | ELECTRICAL- MISCELLANEOUS | Solar PV module | Photovoltaic module I-V Characteristics Test | CI No. 4.2.6.1 IEC/TS 62257-9-5: 2018 | 0.144 W to 301 W |
| 3 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit | Full-battery run time Test (a) Active / Passive Deep Discharge Voltage (b) Full-battery run time to L70 (c) Avg. Power over the L70 run time | CI No. 4.2.8.6 IEC/TS 62257-9-5: 2018 | 1 lx to 5000 lx |
| 4 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit | Grid charge test | CI No. 4.2.8.8 IEC/TS 62257-9-5: 2018 | 0.5 A to 2 A |
| 5 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit | Mechanical durability test (a) Drop test (b) Switch test (c) Connector test (d) Gooseneck test (e) Strain relief test | CI No. 4.2.3.7, 4.2.3.8, 4.2.3.9, 4.2.3.10 & 4.2.3.11 IEC/TS 62257-9-5 : 2018 | Qualitative |
| 6 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit | Solar Charge test (a) Solar operation efficiency (b) Battery charging circuit efficiency (c) Solar run time | CI No. 4.2.7.4 IEC/TS 62257-9-5: 2018 | 0.1 A to 2.9 |



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| 7 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit | Visual screening (a) Dimension | CI No. 4.2.2, 4.2.3.12, 4.2.5.4 & 4.2.6.2 IEC/TS 62257-9-5: 2018 | 0.002 m to 1 m |
| 8 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit | Visual screening (b) Weight | CI No. 4.2.2 IEC/TS 62257-9-5: 2018 | 0.01 Kg to 30 Kg |
| 9 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit with charge controller or independent charge controller | Charge Controller Behavior Test (a) Active / Passive Overcharge protection test (b) Standby loss measurement | CI No. 4.2.3.13 & 4.2.8.10 IEC/TS 62257-9-5: 2018 | 0.5 A to 2 A |
| 10 | ELECTRICAL- MISCELLANEOUS | Stand-alone Lighting Kit with mechanical charging option | Electromechanical Charge Test | CI No. 4.2.8.9 IEC/TS 62257-9-5: 2018 | 0.5 A to 2 A |
| 11 | PHOTOMETRY- LUMINARIES | Stand-alone Lighting Kit or LED lamps (Integrating Sphere with Spectroradiometer System) | Luminous Flux measurement | CI No. 4.2.9.1 IEC/TS 62257-9-5: 2018 | 1 lm to 50000 lm |