# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** FIEM INDUSTRIES LTD., R&D DIVISION, UNIT VIII, SP 1-C, TAPUKARA INDUSTRIAL AREA, BHIWADI, ALWAR, RAJASTHAN, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-6503 **Page No** 1 of 3

**Validity** 15/11/2021 to 14/11/2023 **Last Amended on** -

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self Ballasted LED lamps for General Lighting services. | Color coordinates (X-coordinates) | IS 16102 (Part-2) |
| 2 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self Ballasted LED lamps for General Lighting services. | Color Coordinates(Y-coordinates) | IS 16102 (Part-2) |
| 3 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self Ballasted LED lamps for General Lighting services. | Colour Rendering Index | IS 16102 (Part-2) |
| 4 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self Ballasted LED lamps for General Lighting services. | Correlated Colour Temperature | IS 16102 (Part-2) |
| 5 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps | Color nomenclature (X-coordinates) | IEC 62612 |
| 6 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps | Color nomenclature (Y coordinates) | IEC 62612 |
| 7 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps | Colour Rendering Index | IEC 62612 |
| 8 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps | Correlated Colour Temperature | IEC 62612 |
| 9 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps | Lamp Power | IEC 62612 |
| 10 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps | Luminous flux | IEC 62612 |
| 11 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps | Luminous Flux | IS 16102 (Part-2) |
| 12 | PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP) | Self- Ballasted LED Lamps for general lighting services | Lamp power | IS 16102 (Part-2) |
| 13 | PHOTOMETRY- LUMINARIES | LED Luminaries | Luminous Intensity Distribution | IS 16107 (Part2/sec1) |
| 14 | PHOTOMETRY- LUMINARIES | LED Fixed General Purpose Luminaire | Photometric test | IS 10322 (P-5/Sec-1) |

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| 15 | PHOTOMETRY-LUMINARIES | LED Flood Lights | Photometric test | IS 10322 (P-5/Sec-5) |
| 16 | PHOTOMETRY-LUMINARIES | LED Luminaries | Chromaticity coordinates (X coordinates) | IS 16107 (Part2/sec1) |
| 17 | PHOTOMETRY-LUMINARIES | LED Luminaries | Chromaticity coordinates (X-coordinates) | IEC 62722-2-1 |
| 18 | PHOTOMETRY-LUMINARIES | LED Luminaries | Chromaticity coordinates (Y coordinates) | IEC 62722-2-1 |
| 19 | PHOTOMETRY-LUMINARIES | LED Luminaries | Chromaticity coordinates (Y coordinates) | IS 16107 (Part2/sec1) |
| 20 | PHOTOMETRY-LUMINARIES | LED Luminaries | Colour Rendering Index | IEC 62722-2-1 |
| 21 | PHOTOMETRY-LUMINARIES | LED Luminaries | Colour Rendering Index | IS 16107 (Part2/sec1) |
| 22 | PHOTOMETRY-LUMINARIES | LED Luminaries | Correlated Colour Temperature | IEC 62722-2-1 |
| 23 | PHOTOMETRY-LUMINARIES | LED Luminaries | Correlated Colour Temperature | IS 16107 (Part2/sec1) |
| 24 | PHOTOMETRY-LUMINARIES | LED Luminaries | Luminous Flux | IEC 62722-2-1 |
| 25 | PHOTOMETRY-LUMINARIES | LED Luminaries | Luminous Flux | IS 16107 (Part2/sec1) |
| 26 | PHOTOMETRY-LUMINARIES | LED Luminaries | Luminous Intensity Distribution | IEC 62722-2-1 |
| 27 | PHOTOMETRY-LUMINARIES | LED Luminaries | Total Input Power | IEC 62722-2-1 |
| 28 | PHOTOMETRY-LUMINARIES | LED Luminaries | Total Input Power | IS 16107 (Part2/sec1) |
| 29 | PHOTOMETRY-LUMINARIES | LED Modules | Chromaticity coordinates (X-coordinates) | IS 16103-2 |
| 30 | PHOTOMETRY-LUMINARIES | LED Modules | Chromaticity coordinates (Y-coordinates) | IS 16103-2 |
| 31 | PHOTOMETRY-LUMINARIES | LED Modules | Colour Rendering Index | IS 16103-2 |
| 32 | PHOTOMETRY-LUMINARIES | LED Modules | Correlated Colour Temperature | IS 16103-2 |
| 33 | PHOTOMETRY-LUMINARIES | LED Modules | Luminaire Efficacy | IS 16103-2 |

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| 34 | PHOTOMETRY-LUMINARIES | LED Modules | Luminous Flux | IS 16103-2 |
| 35 | PHOTOMETRY-LUMINARIES | LED Modules | Luminous Intensity Distribution | IS 16103-2 |
| 36 | PHOTOMETRY-LUMINARIES | LED Modules | Module Power | IS 16103-2 |
| 37 | PHOTOMETRY-LUMINARIES | LED Recessed Luminaires | Photometric test | IS 10322 (P-5/Sec 2) |
| 38 | PHOTOMETRY-LUMINARIES | Luminaires for Road & Street lighting | Photometric test | IS 10322 (P-5/Sec-3) |
| 39 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Luminaries | Chromaticity coordinates (X-coordinates) | IES LM 79 |
| 40 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Chromaticity coordinates (X-coordinates) | IS 16106 |
| 41 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Chromaticity coordinates (Y-coordinates) | IES LM 79 -08 |
| 42 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Chromaticity coordinates (Y-coordinates) | IS 16106 |
| 43 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Colour Rendering Index | IES LM 79 |
| 44 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Colour Rendering Index | IS 16106 |
| 45 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Correlated Colour Temperature | IES LM 79 |
| 46 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Correlated Colour Temperature | IS 16106 |
| 47 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Luminous Flux | IES LM 79 |
| 48 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Luminous Flux | IS 16106 |
| 49 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Luminous Intensity Distribution | IES LM 79 |
| 50 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Luminous Intensity Distribution | IS 16106 |
| 51 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Total Input Power | IES LM 79 |
| 52 | PHOTOMETRY-LUMINARIES | Solid State lighting (LED) Products | Total Input Power | IS 16106 |