

## SCOPE OF ACCREDITATION

Dubai Municipality- Dubai Central Laboratory Department- Renewable Energy and Electromechanical Laboratories Section

Dubai- United Arab Emirates

Issue No: 05

Issue date: 28- 03- 2018

Accreditation Certificate No: LB-014-TEST

| Type of Task                                    | Materials/Products                             | Task Name  | Standard method                      |
|---|--|--|--------------------------------------|
| Electrical Testing- Household Appliances (HOUS) | Household and Similar Electrical Appliances    | General Safety Requirements for Household and Similar Electrical Appliances          | IEC 60335-1+ A1                      |
|   | Vacuum cleaners & similar appliance            | Particular requirements for vacuum cleaners and water-suction cleaning appliance     | IEC 60335-2-2                        |
|   | Electric Irons                                 | Particular Requirements for Electric Irons   | IEC 60335-2-3                        |
|   | Spin Extractors & similar appliances           | Particular requirements for spin extractors  | IEC 60335-2-4                        |
|   | Washing Machines & similar appliances          | Particular requirements for washing machines   | IEC 60335-2-7                        |
|   | Shavers, clippers and similar appliances       | Particular requirements for shavers, hair clippers and similar appliances            | IEC 60335-2-8                        |
|   | Grills and Similar Portable Cooking Appliances | Particular Requirements for Grills, Toasters and Similar Portable Cooking Appliances | UAE.S/IEC 60335-2-9<br>IEC 60335-2-9 |

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| Electrical Testing- Household Appliances (HOUS) | Tumble dryers and similar appliances   | Particular requirements for tumble dryers                                       | IEC 60335-2-11                         |
|   | Warming plates and similar appliances  | Particular requirements for warming plates and similar appliances               | IEC 60335-2-12                         |
|   | Deep Fat Fryers and Similar Appliances | Particular Requirements for Deep Fat Fryers, Frying Pans and Similar Appliances | IEC 60335-2-13                         |
|   | Kitchen Machine and Similar Appliances | Particular Requirements for Kitchen Machine                                     | UAE.S/IEC 60335-2-14<br>IEC 60335-2-14 |
|   | Appliances for Heating Liquids         | Particular Requirements for Appliances for Heating Liquids                      | IEC 60335-2-15                         |
|   | Storage Water Heaters                  | Particular Requirements for Storage Water Heaters                               | UAE.S/IEC 60335-2-21<br>IEC 60335-2-21 |
|   | Skin or hair care appliances           | Particular Requirements for Appliances for Skin or Hair Care                    | UAE.S/IEC 60335-2-23<br>IEC 60335-2-23 |

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| Electrical Testing- Household Appliances (HOUS) | Refrigerating Appliances-Ice-Cream Appliances and Ice-Makers | Particular requirements for Refrigerating Appliances-Ice-Cream Appliances and Ice-Makers                                      | UAE.S/IEC 60335-2-24<br>IEC 60335-2-24     |
|   | Microwave Ovens, Including Combination Microwave Ovens       | Particular Requirements for Microwave Ovens, Including Combination Microwave Ovens  | UAE.S GSO/IEC 60335-2-25<br>IEC 60335-2-25 |
|   | Commercial dispensing appliances and vending machines        | Particular requirements for commercial dispensing appliances and vending machines   | IEC 60335-2-75                             |
|   | Electrical Fans  | Particular requirements for fans  | UAE.S/IEC 60335-2-80<br>IEC 60335-2-80     |
|   | Commercial refrigerating appliances                          | Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor | IEC 60335-2-89                             |

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|--|--|--|---|
| Electrical Testing-<br>Home Appliances<br>(HOUS) | Gas, oil and solid-fuel burning appliances having electrical connections | Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections | UAE.S/ IEC 60335-2-102<br>IEC 60335-2-102 |
|  | Room heaters and similar appliances                                      | Particular requirements for room heaters   | IEC 60335-2-30                            |
|  | Portable heating tools and similar appliances                            | Particular requirements for portable heating tools and similar appliances                            | IEC 60335-2-45                            |
|  | Insect Killers   | Particular requirements for insect killers   | IEC 60335-2-59                            |
|  | Humidifiers and similar appliances                                       | Particular requirements for humidifiers  | IEC 60335-2-98                            |
|  | Stationary cooking ranges, hobs, ovens and similar appliances            | Particular requirements for Stationary cooking ranges, hobs, ovens and similar appliances            | IEC 60335-2-6:2014                        |
|  | Fabric streamers   | Particular requirements for Fabric streamers   | IEC 60335-2-85                            |
|  | battery chargers   | Particular requirements for battery chargers   | IEC 60335-2-29                            |

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| Electrical Testing- Performance (E3) | Energy Efficiency of Water storage heaters              | Methods for measuring the performance of electric storage water heaters for household purposes | IEC 60379       |
|                                      | Energy Efficiency of Television sets                    | Determination of power consumption   | IEC 62087-3     |
|                                      |   | Measurement of standby power   | IEC 62301       |
|                                      |   | Energy Efficiency Label for Electrical Appliances Part 8: Television Sets                      | UAE.S 5010-8    |
|                                      | Energy Efficiency of Household refrigerating appliances | Characteristics and test methods of Household refrigerating appliances - General requirements  | IEC 62552-1     |
|                                      |   | Performance requirements   | IEC 62552-2     |
|                                      |   | Energy consumption and volume  | IEC 62552-3     |

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| Electrical Testing- Performance (E3)      | Energy Efficiency of Household refrigerating appliances | Labeling - Energy Efficiency Label for Electrical Appliances Part 3: Household Refrigerating Appliances      | UAE.S 5010-3    |
|   |   | Energy performance and capacity and labeling of household refrigerators, refrigerator-freezers, and freezers | SASO 2664       |
|   | Self ballasted CFL lamps                                | Self-ballasted lamps for general lighting services - Performance requirements                                | IEC 60969       |
| Electrical Testing- Ingress of Protection | Ingress of protection                                   | Degree of protection against water   | IEC 60529       |
| Electrical Testing- Installation (INST)   | Switches and similar electrical installation            | Switches for household and similar fixed-electrical installations  | IEC 60669-1     |

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| Electrical Testing- Installation (INST) | Switches for household and similar fixed- electrical installations | Particular Requirements Electronics Switches                          | IEC 60669-2-1                    |
|   | Electrical accessories Cable reels                                 | Electrical accessories Cable reels for household and similar purposes | IEC 61242                        |
|   | Switches for appliances  | Switches for appliances - General Safety Requirements                 | IEC 61058-1                      |
| Electrical Testing- Material Testing    | Material testing (Resistance to fire)                              | Glow- wire apparatus and common test procedure                        | IEC 60695-2-10                   |
|   |  | Ball pressure test  | IEC 60695-10-2                   |
| Electrical Testing- Tools (TOOLS)       | Hand held electrical tools and similar appliances                  | Hand-held motor-operated electric tools –Safety General requirements  | UAE.S/IEC 60745-1<br>IEC 60745-1 |
|   |  | Particular requirements for drills and impact drills                  | IEC 60745-2-1                    |
|   | Hand held electrical tools and similar appliances                  | Particular requirements for screwdrivers and impact wrenches          | IEC 60745-2-2                    |

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|-----------------------------------|---|--|-----------------|
| Electrical Testing- Tools (TOOLS) | Hand held electrical tools and similar appliances | Particular requirements for grinders, polishers and disk-type sanders  | IEC 60745-2-3   |
|                                   |   | Particular requirements for sanders and polishers other than disk type | IEC 60745-2-4   |
|                                   |   | Particular requirements for circular saws                              | IEC 60745-2-5   |
|                                   |   | Particular requirements for hammers                                    | IEC 60745-2-6   |
|                                   |   | Particular requirements for spray guns for non-flammable liquids       | IEC 60745-2-7   |
|                                   |   | Particular requirements for shears and nibblers                        | IEC 60745-2-8   |
|                                   |   | Particular requirements for tappers                                    | IEC 60745-2-9   |
|                                   |   | Particular requirements for reciprocating saws (jig and sabre saws)    | IEC 60745-2-11  |

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| Electrical Testing- Tools (TOOLS) | Hand held electrical tools and similar appliances | Particular requirements for concrete vibrators   | IEC 60745-2-12  |
|                                   |   | Particular requirements for chain saws           | IEC 60745-2-13  |
|                                   |   | Particular requirements for planers              | IEC 60745-2-14  |
|                                   |   | Particular requirements for hedge trimmers       | IEC 60745-2-15  |
|                                   |   | Particular requirements for tickers              | IEC 60745-2-16  |
|                                   |   | Particular requirements for routers and trimmers | IEC 60745-2-17  |
|                                   |   | Particular requirements for strapping tools      | IEC 60745-2-18  |
|                                   |   | Particular requirements for jointers             | IEC 60745-2-19  |
|                                   |   | Particular requirements for band saws            | IEC 60745-2-20  |

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| Electrical Testing- Tools (TOOLS)       | Hand held electrical tools and similar appliances | Particular requirements for drain cleaners  | IEC 60745-2-21                       |
| Electrical Testing- Installation (INST) | Plugs & socket outlets and similar appliances     | Plugs and socket-outlets for household and similar purposes                                   | UAE.S/GSO IEC 60884-1<br>IEC 60884-1 |
|   |   | Particular requirements for fused plugs   | UAE.S/IEC 60884-2-1<br>IEC 60884-2-1 |
|   |   | Particular requirements for socket outlets for appliances                                     | IEC 60884-2-2                        |
|   |   | Particular requirements for switched socket-outlets without interlock for fixed Installations | IEC 60884-2-3                        |
|   |   | Particular requirements for plugs and socket-outlets for SELV                                 | IEC 60884-2-4                        |

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| Electrical Testing- Installation (INST)         | Plugs & socket outlets and similar appliances | Particular requirements for switched socket-outlets with interlock for fixed electrical installations | IEC 60884-2-6                        |
|   |   | Particular requirements for cord extension sets   | IEC 60884-2-7                        |
|   |   | Particular requirements for adaptors  | UAE.S/IEC 60884-2-5<br>IEC 60884-2-5 |
| Electrical Testing- Accessibility to Live Parts | Accessibility to live parts                   | Protection of persons and equipment by enclosures- Probes for verification                            | IEC 61032                            |
| Luminaries and Lamps (LITE)                     | Safety Requirements for Luminaries            | General requirements and tests  | IEC 60598-1                          |
|   | Fixed general purpose luminaries              | Particular requirements - Fixed general purpose luminaries  | IEC 60598-2-1                        |
|   | Recessed luminaries                           | Particular requirements - Recessed luminaries   | IEC 60598-2-2                        |

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| Luminaries and Lamps (LITE)         | Luminaries for road and street lighting                                | Particular requirements - Luminaries for road and street lighting                                | IEC 60598-2-3   |
|                                     | Portable luminaries  | Portable ge-neral purpose luminaries   | IEC 60598-2-4   |
|                                     | Flood lights   | Particular requirements - Floodlights  | IEC 60598-2-5   |
|                                     | Self ballasted LED lamps   | Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications | IEC 62560       |
|                                     | Self ballasted CFL lamps   | Self-ballasted lamps for general lighting services - Safety requirements                         | IEC 60968       |
| Electromagnetic Compatibility (EMC) | Electro static discharge test for electrical and electronics equipment | Testing and Measurement Techniques – Electrostatic Discharge Immunity Test                       | IEC 61000-4-2   |
|                                     | Fast Transient test for electrical and electronics equipment           | Testing and measurement techniques – Electrical fast transient/burst immunity test               | IEC 61000-4-4   |
|                                     | Surge immunity test for electrical and electronics equipment           | Testing and measurement techniques – Surge Immunity Test   | IEC 61000-4-5   |

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| Electromagnetic Compatibility (EMC) | Radio frequency disturbance test for electrical and electronics equipment    | Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields   | IEC 61000-4-6   |
|                                     | Harmonics current to electrical and electronics equipment                    | Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)  | IEC 61000-3-2   |
|                                     | Voltage fluctuation and flicker test on electrical and electronic equipment. | Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection | IEC 61000-3-3   |
|                                     | Voltage dips and short interruptions immunity test                           | Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests   | IEC 61000-4-11  |
|                                     | Requirements for household appliances, electric tools and similar apparatus  | Electromagnetic compatibility –Part 1: Emission  | CISPR 14-1      |

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| Electromagnetic Compatibility (EMC) | Household appliances, electric tools and similar apparatus | Electromagnetic compatibility – Part 2: Immunity – Product family standard            | CISPR 14-2      |
|                                     | Residential, commercial and light-industrial environments  | Electromagnetic compatibility (EMC) – Part 6-1: Generic standards –                   | IEC 61000-6-1   |
|                                     | Industrial environments                                    | Electromagnetic compatibility (EMC) – Part 6-2: Generic standards –                   | IEC 61000-6-2   |
|                                     | Residential, commercial and light-industrial environments  | Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard | IEC 61000-6-3   |
|                                     | Industrial environments                                    | Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard | IEC 61000-6-4   |

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| Electromagnetic Compatibility (EMC)       | Information technology equipment   | Immunity characteristics – Limits and methods of measurement   | CISPR 24        |
|   | Equipment for general lighting purposes  | EMC immunity requirements  | IEC 61547       |
| Battery (BATT)                            | Secondary cells and batteries containing alkaline or other non-acid electrolytes | Safety requirements for portable sealed secondary cells, and for batteries Amade from them, for use in portable applications | IEC 62133       |
| Information Technology Equipment (IT)     | USB Port   | General Safety Requirements for Information Technology Equipment   | IEC 60950-1     |
| Restriction of Hazardous Substance (RoHS) | Electrical and Electronic Equipment  | Determination of certain substances in electrotechnical products<br>Part 1: Introduction and overview                        | IEC 62321-1     |

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| Restriction of Hazardous Substance (RoHS) | Electrical and Electronic Equipment | Determination of certain substances in electrotechnical products<br>Part 2: Disassembly, disjointment and mechanical sample preparation   | IEC 62321-2     |
|   |                                     | Determination of certain substances in electrotechnical products<br>Part 3-1: Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry | IEC 62321-3-1   |

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