

Annexure - A

Testing Equipment Laboratory - Technical Specifications.

S/N	Tested Products	Conducted Tests Name	Recommended Equipment Name And Model	Main Characteristics
1	Transformer Oil	BDV (Break Down Voltage)	Breakdown Voltage Tester Range - 100 KV Model: Latest edition	<ol style="list-style-type: none">1. Power: AC220V \pm 10%, 50Hz2. Output voltage: 0-100KV3. Capacity: 1.6 kVA, 2.0 kVA4. Boosting Voltage speed: 2 kV / S5. Voltage detection precision: 3%6. Breakdown sensitivity: <2 kV7. Waveform distortion: \leq 3%8. Breakdown Reacting time: \leq 10ms9. Working environment: temperature: 0 $^{\circ}$C ~ 50 11, Humidity: 85%10 Storage Environment: Temperature: - 20 $^{\circ}$C ~ 13, Humidity: 75%11. Working Altitude: <1500m12. Automatic boost voltage, mixing, calculate average value and automatic print the result
2	Plug, Socket and Switch	Technical Parameters	Electrical Test Equipment For Plug, Socket And Switch Model: Latest Edition	<ol style="list-style-type: none">1. Lighting purposed switch test table2. Lighting purposed switch load cabinet3. Lighting purposed switch mechanical hand4. Socket gauge5. Plug gauge6. Vernier caliper7. Extraction force test device8. Flame retardant performance test platform9. Proof tracking index test bench10. Voltage withstand test station11. Insulation resistance tester12. High temperature high moisture cabinet13. High temperature box(drying)14. Screw force gongs knife15. Creepage distance, clearance test gauge16. Electric shock proof test finger17. Drop test machine18. Ball pressure apparatus

3	Electrical Cables	Conductor Resistance	Digital Mili/Micro ohmmeter	3.5 digit suitable to checking low resistance of copper wires and other conductors from 1 micro-ohm to 19.99 ohm in 5 ranges. The unit is designed for working on 230 V AC \pm 10% and consumes 12 W Power. The resistance is displayed directly on seven segment LED display
4	Electrical Cables	Insulation resistance	Million Mega ohmmeter	<p>Input Voltage : 230 + 10% Single Phase 50Hz Ac</p> <p>Output Voltage (any one or more) : 100V, 250V, 500V, 1000V, 2500V, 5000V, DC.</p> <p>Output current : 3 mA (upto 5mA)</p> <p>Range of Measurement : 1 Megohm to 10 Megohms (As per requirement)</p> <p>Metering :</p> <p>(a) With Digital Indication upto 2000 Megohms.</p> <p>(b) Moving Coil Analogue Meter. Scale 0-100 Megohm</p> <p>Test Voltage Selection : Through Selector Switch</p> <p>Over Range Indication: Available.</p> <p>Accuracy Class : +/- 2% of reading, + 0.5 % of FSD</p>
5	Electrical Cables	High Voltage Test	High Voltage tester Range 1KV-36KV AC	<p>1. Capacity:3KVA</p> <p>2. Input Voltage:AC220V 50Hz</p> <p>3. Rated Input: 12A</p> <p>4. Output Voltage :0 ~ 250V</p> <p>5. Power Output :0 ~ 12A</p> <p>6. Size : 49 x 38 x 39 cm</p> <p>7. Weight : GW/NW : 34kgs/21kgs</p> <p>Index of Transformer :</p> <p>1. Capacity : 3KVA</p> <p>2. Input Voltage : AC220V 50Hz</p> <p>3. Power Input : 12A</p> <p>4. Output Voltage : AC:50KV</p> <p>5. Power Output : AC:60mA</p> <p>6. Transformer Ratio : 1000</p> <p>7. Accuracy : <2% (F.S)</p> <p>8. Size : 28 x 35 x 78 cm</p> <p>9. Weight : GW/NW : 36kgs/28kgs</p>

6	Electrical Cables	Tensile Strength & Elongation at Break for Insulation & Sheath	Electrical Cable Tensile Testing Machine 1. For metal, rubber, plastic, spring textile cable. 2. Tension, compression, bending shearing.	1. Input: 220 ± 10% Volts AC, 50/60 Hz, single phase. 2. Output-Voltage : 30KV 3. Output frequency: 0.1Hz, 0.05Hz, 0.02Hz. 4. Stability of frequency: Fluctuation < 0.5% 5. Measurement accuracy: ±3%. 6. Positive and negative voltage peak errors: ≤3%. 7. Voltage waveform distortion: ≤5% 8. Construction: In two units: Controller and Booster.. 9. Ambient conditions of use: temperature Indoor and outdoor : -10°C to + 50°C. 10. Humidity:≤85%
7	Single and Double – (CFL) Capped fluorescent lamps	Safety and performance specification	Spectroradiometer Box, Lumen Tester, LED Lamp Tester	Size: 52*43*51 cm Measurement Range: 0-30V 100-277V
8	Low voltage fuse	Rated current/voltage	Automated Fuse Test Equipment range, 1A, 2A, 4A, 6A, 10A, 16A, 20A	1.Range:0.1A-19.9A 2.Max load: 20A/32V DC
9	Alternating current switch - fuse combinations	Temperature rise test Short Circuit Withstand Test Measuring the resistance of main circuit Operating and mechanical endurance tests Dielectric Tests on auxiliary and control circuits		1.Test range:0.1ms□1S□12S Accuracy: ± (0.1% reading +2 words) 2.Graphic Display: 1S, the 13 all the way □ 0.1ms hopping 3.Speed range: 1mm Sensor (oil switch□SF6□ 0.01□20.00m/s 0.1mm Sensor (vacuum switch) 0.001□2.00m/s 1 ° angle sensor (vacuum switch, SF6) 1 cycle / 1 ° Accuracy: 1mm sensor ± (1% reading +1 word) 0.1mm sensor ± (2% reading +1 word) 1 ° angle sensor ± (1% reading +1
10	Energy meters Three & single phase	Starting Current Test Starting Current Test warm up test No load test(creep test) Dial test Tests of the influence quantities(reverse phase, voltage unbalance, harmonic wave) repeatability of the measurements Power loss Continuous Current Effect of short circuit	Energy Meter Test Bench Three/Single phase	1.Voltage Range:25V/75V/150V/300V 2.Current: 0.2A/1A/5A/20A 3.Power: P=U*I 4.Frequency:50Hz-1000Hz 5.Single phase65