

# Schedule


Issue date: 15 October 2024  
Valid Until: 15 October 2029



## NO: MIBAS 002

(Issue 2, 15 October 2024 replacement of MIBAS 002 dated 15 October 2024)

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<b>INSPECTION BODY/ CENTRAL OFFICE:</b> 	TNB Labs Sdn. Bhd. (Product Inspection Section, Quality Assurance Unit) No.1, Lorong Air Hitam, Kawasan Institusi Latihan dan Penyelidikan Bangi, 43000 Kajang, Selangor. , 43000, SELANGOR MALAYSIA
<b>ACCREDITED SINCE :</b>	15 OCTOBER 2024
<b>TYPE OF INSPECTION :</b>	B
<b>FIELD(S) OF INSPECTION :</b>	ELECTROMAGNETIC RADIATION - TYPE B MANUFACTURED GOODS/PRODUCTS - TYPE B

An inspection body's fulfilment of the requirements of ISO/IEC 17020:2012 means the inspection body meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid inspection results. The **management system requirements** in ISO/IEC 17020:2012 (Section 8) are written in language relevant to inspection body operations and are aligned with the pertinent requirements of ISO 9001. (Joint IAF-ILAC-ISO Communiqué dated September 2013).

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<b>CENTRAL LOCATION:</b>	TNB Labs Sdn. Bhd. (Product Inspection Section, Quality Assurance Unit) No.1, Lorong Air Hitam, Kawasan Institusi Latihan dan Penyelidikan Bangi, 43000 Kajang, Selangor. , 43000, Selangor
<b>FIELD(S) OF INSPECTION :</b>	ELECTROMAGNETIC RADIATION - TYPE B
<b>TYPE OF INSPECTION :</b>	B

## SCOPE OF INSPECTION :

Central CAB		
CAB Name : <u>TNB Labs Sdn. Bhd. (Product Inspection Section, Quality Assurance Unit)</u>		
Inspection		
Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures
<b>A - MANUFACTURED GOODS/PRODUCTS - TYPE A</b>		
Electrical Equipment - Switchgears up to 33 kV	<ol style="list-style-type: none"> <li>1. Dielectric Test on Main Circuit</li> <li>2. Test on Auxiliary and Control Circuit</li> <li>3. Measurement of Resistance of Main Circuit</li> <li>4. Design and Visual Check</li> <li>5. Mechanical Operating Test</li> <li>6. Tightness Test (Sniffer Method)</li> </ol>	<ol style="list-style-type: none"> <li>1. IEC 62271-1, Edition 1.1:2008-08 (Clause 7.1, 7.2, 7.3, 7.4 &amp; 7.5)</li> <li>2. IEC 62271-100, Edition 2.0:2008-4 (Clause 7.1, 7.2, 7.3, 7.4, 7.5 &amp; 7.101)</li> <li>3. IEC 62271-200, Edition 2.0:2011-10 (Clause 7.1, 7.2, 7.3, 7.4, 7.5, 7.101, 7.102 &amp; 7.104)</li> </ol>
Electrical Equipment - Transformer up to 33 kV	<ol style="list-style-type: none"> <li>1. Measurement of Winding Resistance</li> <li>2. Measurement of Voltage Ratio and Check of Phase Displacement</li> <li>3. Measurement of Short Circuit Impedance and Load Loss</li> <li>4. Measurement of No Load Loss</li> </ol>	IEC 60076-1, Edition 2.1:2000-4 (Clause 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7 & 10.8)
	<ol style="list-style-type: none"> <li>1. Separate Source AC Withstand Voltage Test</li> <li>2. Induced AC Voltage Test</li> </ol>	IEC 60076-3, 2nd Edition:2000-03 (Clause 10 & 11)
	<ol style="list-style-type: none"> <li>1. Physical Inspection</li> </ol>	Client's Method
Electrical Equipment - Cable up to 33 kV	<ol style="list-style-type: none"> <li>1. Conductor resistance</li> <li>2. Voltage test</li> </ol>	IEC 60502-1, 2nd Edition:2004-04 Cables for Rated Voltages of 1 kV

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Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures
	3. Measurement of insulation thickness 4. Measurement of external diameter	and 3 kV (Clause 15.2, 15.3, 16.4, 16.5, 16.6, 16.7 & 16.8)
Electrical Equipment - Street Lighting Components i) Lantern	1. Physical & visual check 2. Construction, Mechanical, Electrical connection and current carrying parts	IEC 60598-1:2008, Edition 7.0 (Clause 3.2, 4.13 & 4.11)
Electrical Equipment - Street Lighting Components ii) Lamp	1. Physical and visual check 2. Electrical characteristics 3. Photometric characteristic 4. Cap torsion test	1. IEC 60662:2011, Edition 2.0 (Clause 4, 5 & 7.4) 2. IEC 62035:2003, Edition 1.1 (Clause 4.3.2.2)
Electrical Equipment - Street Lighting Components iii) Ballast	1. Physical & visual check 2. Dielectric test 3. Temperature rise test 4. Circuit power factor 5. Losses	1. MS IEC 61347-1:2003 (Clause 7.1) 2. MS IEC 61347-2-9:2003 (Clause 7.1, 14.2 & 15.1) 3. MS IEC 60923:1995 (Clause 5 & 7)
Electrical Equipment - Street Lighting Components iv) Ignitor	1. Physical & visual check 2. Switching test 3. Pulse voltage 4. Ignitor wit cut-out/Test temperature	IEC 60927:2007, Edition 3.0 (Clause 7.1, 10.4, 10.5 & 12.5)
Electrical Equipment - Street Lighting Components v) Photoelectric Control Unit (PECU)	1. Physical & visual check 2. Functional test	BS 5972:1980 (Clause 6.1, 10 & 11)
Electrical Equipment - Overhead Accessories i) LV cut out fuse switch disconnecter	1. Physical Inspection 2. Dimension Measurement	IEC 60947 – 1: 2014, Edition 5.2 (Clause 8.2)
Electrical Equipment - Overhead Accessories ii) LV fuse switch 400A iii) LV fuse switch 160A	1. Dielectric Test 2. Mechanical operation test 3. Physical Inspection	1. IEC 60947 – 1: 2014, Edition 5.2 (Clause 8.2, 8.3.3.4.2) 2. IEC 60947 – 3: 2015, Edition 3.2 (Clause 8.1.3.2, 8.1.3.3, 8.2)
Electrical Equipment - Overhead Accessories iv) Neutral Link	1. Physical Inspection (Marking, Dimension, Construction) 2. Insulation resistance	BS 5733 : 2010 + A1 : 2014 (Clause 8, 9, 13, 19)
Civil Equipment - Spun Concrete Poles	1. Physical & visual check 2. Bending strength test	JIS A 5309:1995 (Clause 8.1, 8.2, 8.3, 8.4 & 8.5)

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Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures
	3. Breaking test	

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