**SCOPE 195 ЛИ**

**Sofia, 22.12.2023**

**CERB HIGH VOLTAGE LABORATORY LTD**

**HIGH VOLTAGE LABORATORY**

**Management and laboratory address:**

1220 Sofia, Voenna Rampa, 1 Lokomotiv Str.

**To perform testing of:**

| **Type of the scope:** flexible |
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| **№** | **Tested products** | **Type of test / characteristic** | **Testing methods****(standard / validated method)** |
| **1** | **2** | **3** | **4** |
| 1. | Power transformers | 1.1. DC Resistance of windings by VA method | БДС 15320 |
| 1.2. Transformation factor | БДС 15320 |
| 1.3. Coil connection group | БДС 15320 |
| 1.4. Insulation resistance | БДС 16654БДС 16654 |
| 1.5. Absorption coefficient |
| 1.6. Capacity | БДС 16654 |
| 1.7. Dielectric loss angle tangent | БДС 16654 |
| 1.8. Internal insulation test with variable test voltage (Withstand AC voltage applied from an external source) | БДС EN 60076-3БДС 16249БДС 9089БДС EN 60060-1БДС EN 60060-3 |
| 1.9. Frequency response | БДС EN 60076-18 |
| 2. | Current instrument transformers | 2.1. Insulation resistance | БДС 16654 |
| 2.2. Internal insulation test with variable test voltage (Withstand AC voltage applied from an external source) | БДС 9089 БДС EN 60060-1 БДС EN 60060-3 |
| 3. | Voltage instrument transformers | 3.1. Insulation resistance | БДС 16654 |
| 3.2. Internal insulation test with variable test voltage (Withstand AC voltage applied from an external source) | БДС 9089 БДС EN 60060-1БДС EN 60060-3 |
| 4. | Generators and motors | 4.1. DC Resistance of windings by VA method | БДС EN 60034-4БДС 6949 |
| 4.2. Insulation resistance | БДС 6949 |
| 4.3. Withstand voltage | БДС EN 60034-4 БДС EN 60060-1 БДС EN 60060-3 |

***Flexible scope:*** *Implementing a new version of standards/documents or standards/ documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by the laboratory.*