**ORDER**

**№ A 105**

**Sofia, 21.02.2023**

**„BIM ENGINEERING“ LTD**

**Inspection Body of type C**

**Management address:** 2107, Dolna Malina, Sofia-Region, 21 Sedma Str.

**Office address**: 1309, Sofia, 117 Dimitar Petkov Str.

**To perform inspection of:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type of the scope:** *flexible\** | | | | | |
| **№** | **Field of Inspection** | **Type of Inspection** | **Parameter of Inspection / Characteristic** | **Test and Measurement Methods Used During Inspection, Inspection Procedure** | **Ordinances, Standards, Specifications, Schemes** |
| **1** | **2** | **3** | **4** | **5** | **6** |
| 1. | Electrical installations and equipment up to and above 1000 V: | New and / or operational sites/ facilities | Insulation resistance | БДС 1986, т. 3.3, а),b),d) and f)  ПК 01 | Ordinance № 16-116 (SG, 26/2008)  НИЕМС -1995; ТS |
| New and / or operational sites / facilities | Resistance of protective earthing systems | ПК 02 | Ordinance № 16-116  (SG 26/2008)  Ordinance № 3  (SG 90, 91/2004); ТS |
| New and / or operational sites / facilities | Resistance of lightning protection earthing systems | ПК 03 | Ordinance № 4  (SG 6/2011)  Ordinance № 16-116  (SG 26/2008); ТS |
| 2. | Electrical installations and equipment up to 35 kV | New and / or operational sites / facilities | Insulation for high alternating current transformers, devices and insulators, engines and generators u to 35 kV and bus systems up to 20 kV | НИЕМС – 1995  ПК 04 | НИЕМС – 1995  Ordinance № 16-116  (SG 26/2008) Ordinance№ 3  (SG 90, 91/2004); ТS |
| New and / or operational sites / facilities | Insulation for high constant current of cable lines up to 20kV | БДС 2406  ПК 04 | НИЕМС -1995  Ordinance № 16-116, (SG 26/2008); ТS |
| 3. | Electrical installations and equipment up to 1000 V: | New and / or operational sites / facilities | Impedance Zs of the circuit “phase – protective conductor” | ПК 05 | Ordinance № 3  (SG 90, 91/2004)  Ordinance № 16-116  (SG 26/2008); ТS |
| Zero sequence circuit breakers / Fi circuit breakers   * Shutdown time; * Touch voltage;   Trigger current | ПК 06 | Ordinance № 3  (SG 90, 91/2004)  Ordinance № 16-116  (SG 26/2008);  ТS |
| 4. | Transformers, motors and generators for voltages up to and above 1000 V | New and / or operational sites / facilities | Insulation resistance | БДС 16654  ПК 07 | Ordinance№ 3  (SG 90, 91/2004)  Ordinance № 16-116  (SG 26/2008)  НИЕМС -1995;  ТS |
| New and / or operational sites / facilities | Coils active resistance | БДС 15320  ПК 08 | НИЕМС -1995  Ordinance № 16-116  (SG 26/2008);  ТS |
| 5. | Тransformer oil | New and / or operational products | Breakdown voltage of transformer oil | БДС ЕN 60156  ПК 09 | Ordinance № 16-116  (SG 26/2008);  TS |
| 6. | Electroprotective means | | | | |
| 6.1 | Dielectric gloves, boots | Products in use | Electrical strength of the insulation by control with increased alternating voltage, 50 Hz;  Leakage current; | Ordinance № 22 (SG 45/2006)  ПК 10 | Ordinance № 22  (SG 45/2006);  ТS |
| 6.2 | Insulating bars | Products in use | Electrical strength of the insulation by control with increased alternating voltage, 50 Hz; |
| 6.3 | Voltage indicators over 1000V | Products in use | Electrical strength of the insulation by control with increased alternating voltage, 50 Hz;  Voltage indication threshold |
| 7. | Artificial lighting | New and/or operational sites | Illumination | Methodologi cal guideline  for measurement and evaluation of artificial lighting in buildings 40-85, ed Standaidizat on 1985  PK 11 | БДС EN 12464-1  Ordinance No 9  (SG 46/1994)  Ordinance No 2  (SG 15/2007)  Ordinance No 24  (SG 95/2003)  Ordinance No 49  (SG 7/1976)  Ordinance No 26  (SG 103/2008)  Ordinance No 3  (SG 15/2007)  TS |
| 8. | Microclimate | New and/or operational sites | Air temperature; Relative air humidity;  Air movement speed. | БДС 16686:1987  Ordinance № RD-07-3 (SG № 63/2014)  ПК 12 | БДС 14776  Ordinance No 9  (SG 46/1994)  Ordinance № 2  (SG № 15/2007) Ordinance № 24  SG № 95/2003)  Ordinance № 26  (SG № 103/2008) Ordinance № RD-07-3 (SG № 63/2014)  Ordinance № 3  (SG № 15/2007)  TS |
| 9. | Noise in the work environment | New and/or operational sites | Daily noise exposure level;  Peak sound pressure level; | БДС ISO 1999  (БДС EN ISO 9612)  PK 13 | Ordinance № 6;  (SG № 70/2005)  TS |
| 10. | Noise in premises of residential and public buildings | New and/or operational sites | Noise level;  Equivalent noise level. | БДС 15471  ПК 13 | Ordinance № 6,  Annex № 2, Table № 1 (SG № 58/2006);  Ordinance № 9 (SG № 46/1994);  Ordinance № 24 (SG № 95/2003);  Ordinance № 7 (SG 88/1999);  TS |
| 11. | Noise in territories and development zone in urbanized territories and outside them | New and/or operational sites | Equivalent noise level | БДС 15471  ПК 13 | Ordinance № 6, Annex  № 2, Table № 2 (SG № 58/2006)  TS |

**\****The introductici› of a* now *versian of standards/documents or* standards/documents *thiat replace them is parirtilted. An up-la-dete list of standards/documents with thoir deted* versions *is provided by Ihe OOS.*

Ordinance № 16-116 on the technical operation of the electrical equipment (SG 26/2008);

Ordinance№ 3 on the design of electrical installations and power lines (SG 90, 91/2004);

Ordinance № 4 on the lightning protection of buildings, outdoor facilities and open spaces (SG 6/2011);

НИЕМС -1995 Standards for testing of electrical machines and equipment -1995 of the Energy Committee;

Ordinance № 22 on testing of electrical protection devices in operation (SG 45/2006);

Ordinance № 49 - For artificial lighting of the buildings (SG, issue 7/1976);

Ordinance № 2 - on the health requirements for computers and Internet halls for public use (SG № 15/2007);

Ordinance № 24 - on the sanitary and hygienic requirements for discos (SG № 95/2003);

Ordinance № 9 - on the health and hygiene requirements for the use of personal computers in the education and extracurricular activities of students (SG № 46/1994);

Ordinance № 3 - On the health requirements for kindergartens (SG № 15/2007);

Ordinance № 26 - On the structure and activity of nurseries and children's kitchens and the health requirements to them (SG № 103/2008);

Ordinance № RD-07-3 - on the minimum requirements for the microclimate of the workplaces (SG № 63/2014);

Ordinance № 6 on the minimum requirements for ensuring the health and safety of workers in case of risks related to noise exposure (SG № 70/2005);

Ordinance № 6 - For the indicators for environmental noise, taking into account the degree of discomfort during the different parts of the day, the limit values of the environmental noise indicators, the methods for assessment of the values of the noise indicators and the harmful effects of noise on the health of the population (SG № 58/2006);

Ordinance № 7 on the minimum requirements for healthy and safe working conditions at workplaces and when using work equipment (SG № 88/1999);

TC – Technical specification of the customer.