**SCOPE 237 ЛИ**

**Sofia, 28.11.2023**

**of TEC BOBOV DOL JSC,**

**COAL LABORATORY**

**Management and laboratory address**: 2635 Golemo Selo, Kyustendil Region

**To perform testing of:**

| **Type of the scope:** *flexible for a part of the scope* | | | |
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| **№** | **Tested Products** | **Type of Test/Characteristic** | **Testing methods**  **(standard / validated method)** |
| **1** | **2** | **3** | **4** |
| 1. | Solid fuels:  Lignite coals (1)  Brown coals (2)  Black coals (3)  Shaly blaes (4) | 1.1. Ash  - operational condition of the fuel;  - dry condition of the fuel | БДС ISO 1171 (1,2,3,4)  БДС ISO 1170 |
| 1.2. Total moisture | БДС ISO 5068-1 (1,2) |
| БДС ISO 589 (3) |
| 1.3. Moisture in sample for analysis | БДС ISO 5068-2 (1,2) |
| БДС ISO 11722 (3) |
| 1.4. Combustion heat  - upper (operational condition of the fuel; dry condition of the fuel)  - lower (operational condition of the fuel; dry condition of the fuel) | БДС ISO 1928 (1, 2, 3, 4)  БДС ISO 1170 |
| 1.5. Volatile substances  - operational condition of the fuel;  - dry condition of the fuel;  - dry ashless condition of the fuel | БДС ISO 5071-1 (1,2)  БДС ISO 1170 |
| БДС ISO 562 (3)  БДС ISO 1170 |
| 1.6. Total sulphur  - operational condition of the fuel;  - dry condition of the fuel;  - dry ashless condition of the fuel | БДС ISO 334 (1,2,3)  БДС ISO 1170 |
| 2. | Solid biofuels:  (Biomass, Briquettes, Pellets) | 2.1. Total moisture | БДС EN ISO 18134-2 |
| 2.2. Analytical moisture | БДС EN ISO 18134-3 |
| 2.3. Ash  - operational condition  - dry condition | БДС EN ISO 18122  БДС ISO 16993 |
| 2.4. Volatile substances  - operational condition  - dry condition  - dry ashless condition | БДС EN ISO 18123  БДС ISO 16993 |
| 2.5. Total sulphur  - operational condition  - dry condition | БДС EN ISO 16994, cl. 4.4.  VLM 1:07.06.2023  БДС ISO 16993 |
| 2.6. Combustion heat  - upper (operational condition; dry condition)  - lower (operational condition; dry condition) | БДС EN ISO 18125  БДС ISO 16993 |
| 2.7. Total carbon  - operational condition  - dry condition | VLM 2:07.06.2023  БДС ISO 16993 |

**To perform sampling of:**

|  |  |  |
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| **Type of the scope:** *flexible* | | |
| **№** | **Product** | **Sampling Metods**  **(standardized/validated)** |
| **1** | **2** | **3** |
| 1. | Brown and lignite coals | БДС ISO 5069-1\* cl. 4.2 and cl. 4.3.  БДС ISO 5069-2\* |
| 2. | Coals  Lignite coals (1)  Brown coals (2)  Black coals (3) | БДС ISO 18283 (1,2,3) |

*\*Repealed but not replaced standard.*

***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.*

**Fixed scope references:**

VLM 1:07.06.2023 Intralaboratory method for determination of the sulphur content by infrared spectrometry ELTRA CS 530;

VLM 2:07.06.2023 Intralaboratory method for determination of the carbon content by infrared spectrometry ELTRA CS 530.