



**ORDER**

**№ A 295**

**Sofia, 26.07.2024**

Pursuant of Art. 10, para. 1, item 4, Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment bodies, item 6 of the BAS QR 2 Accreditation Procedure in connection with an open procedure reg. № 20/4 ЛИ/ПА/РО/16.01.2024, report reg. № 20/4 ЛИ/ПА/РО/12/В/11.06.2024 and statement of the Accreditation Commission reg. № 20/4 ЛИ/ПА/РО/13/В/05.07.2024, I hereby

**RE-ACCREDIT AND EXTEND THE SCOPE OF ACCREDITATION**

**of AVTOMAGISTRALI – TCHERNO MORE JSC,  
COMPANY ROAD LABORATORY**

**Management address:** 9700 Shumen, 8 Aleko Konstantinov Str.,

**Laboratory address:** 9700 Shumen, 1 Teke Dere, Asphalt Plant,

**To perform testing of:**

| Type of the scope: <i>flexible</i> |                                                                                                        |                                                                              |                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------|
| №                                  | Tested products                                                                                        | Type of test / characteristic                                                | Testing methods<br>(standard / validated method) |
| 1                                  | 2                                                                                                      | 3                                                                            | 4                                                |
| 1.                                 | Aggregates for:<br>Concrete (1);                                                                       | 1.1. Particle size distribution                                              | БДС EN 933-1 (1;2;3)                             |
|                                    |                                                                                                        | 1.2. Assessment of fines                                                     | БДС EN 933-1 (1;2;3)                             |
|                                    |                                                                                                        | 1.3. Resistance to segregation under static load                             | БДС EN 206:2013 +A2/NA(1) Annex NA.Q             |
|                                    | Bituminous mixtures and surface treatments for roads and other trafficked areas (2);                   | 1.4. Resistance to fragmentation (Los Angeles test)                          | БДС EN 1097-2 (1;2;3)                            |
|                                    |                                                                                                        | 1.5. Flakiness index                                                         | БДС EN 933-3 (1;2;3)                             |
|                                    |                                                                                                        | 1.6. Shape index                                                             | БДС EN 933-4 (1;2;3)                             |
|                                    | Unbound and hydraulically bound materials for use in civil engineering work and road construction (3). | 1.7. Loose bulk density                                                      | БДС EN 1097-3 (1;2;3)                            |
|                                    |                                                                                                        | 1.8. Thermal and weathering properties of aggregates. Magnesium sulfate test | БДС EN 1367-2 (1;2;3)                            |
|                                    |                                                                                                        | 1.9. Water content                                                           | БДС EN 1097-5 (1;2;3)                            |
|                                    |                                                                                                        | 1.10. Sand equivalent test                                                   | БДС EN 933-8+A1 (1;2;3)                          |
|                                    |                                                                                                        | 1.11. Methylene blue test                                                    | БДС EN 933-9 (1;2;3)                             |
|                                    |                                                                                                        | 1.12. Liquid Limit of Soils                                                  | AASHTO T 89 (3)                                  |
|                                    |                                                                                                        | 1.13. Plastic Limit and Plasticity Index of Soils                            | AASHTO T 90 (3)                                  |

| Type of the scope: <i>flexible</i> |                                                     |                                                                                                                                                 |                                                                                                  |
|------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| №                                  | Tested products                                     | Type of test / characteristic                                                                                                                   | Testing methods (standard / validated method)                                                    |
| 1                                  | 2                                                   | 3                                                                                                                                               | 4                                                                                                |
|                                    |                                                     | 1.14. Particle density:<br>- Apparent particle density;<br>- Oven-dried particle density;<br>- Saturated and surface dried particle density.    | БДС EN 1097-6 (1;2;3), cl. 7, cl. 8 and cl. 9                                                    |
|                                    |                                                     | 1.15. Test for Density of Soil In-Place by the Sand-Cone Method                                                                                 | AASHTO T 191 (3)                                                                                 |
|                                    |                                                     | 1.16. Dry density and water content. Proctor compaction                                                                                         | БДС EN 13286-2 (3) cl. 7.1, cl. 7.2, cl. 7.4 and cl. 7.5, БДС 17146 (3), cl. 3.3.1 and cl. 3.3.2 |
|                                    |                                                     | 1.17. Determination of the modulus of elasticity, the moduli of deformation (E1) and (E2) and the deformation ratio (E2/E1)                     | БДС 15130 (3)                                                                                    |
|                                    |                                                     | 1.18. California bearing ratio (CBR)                                                                                                            | БДС EN 13286-47 (3)                                                                              |
|                                    |                                                     | 1.19. Affinity between aggregate and bitumen                                                                                                    | БДС 11685 (2), БДС EN 12697-11, cl. 7 (2)                                                        |
|                                    |                                                     | 1.20. Irregularity measurement of pavement courses                                                                                              | БДС EN 13036-7 (3)                                                                               |
|                                    |                                                     | 1.21. Determination of percentage of crushed particles:<br>- Crushed particles;<br>- Totally crushed particles;<br>- Totally rounded particles. | БДС EN 933-5 (2)                                                                                 |
|                                    |                                                     | 1.22. Relative proportions of constituent materials of coarse recycled aggregate                                                                | БДС EN 933-11 (3)                                                                                |
|                                    |                                                     | 1.23. Uniformity coefficient (based on particle size distribution determined according to BDS EN 933-1)                                         | БДС EN 13242+A1/NA                                                                               |
| 2.                                 | Fillers and fine aggregates for bituminous mixtures | 2.1. Particle size distribution                                                                                                                 | БДС EN 933-1                                                                                     |
|                                    |                                                     | 2.2. Water content                                                                                                                              | БДС EN 1097-5                                                                                    |
|                                    |                                                     | 2.3. Particle density of filler                                                                                                                 | БДС EN 1097-7                                                                                    |
|                                    |                                                     | 2.4. Bitumen number                                                                                                                             | БДС EN 13179-2                                                                                   |
|                                    |                                                     | 2.5. Softening point by delta ring and ball test                                                                                                | БДС EN 13179-1                                                                                   |
|                                    |                                                     | 2.6. Determination of water solubility                                                                                                          | БДС EN 1744-1+A1                                                                                 |
|                                    |                                                     | 2.7. Methylene blue test                                                                                                                        | БДС EN 933-9                                                                                     |
|                                    |                                                     | 2.8. Determination of the voids                                                                                                                 | БДС EN 1097-4                                                                                    |
| 3.                                 | Concrete (1);                                       | 3.1. Compressive strength                                                                                                                       | БДС EN 12390-3 (1)                                                                               |

| Type of the scope: <i>flexible</i> |                                                                    |                                                                                                                                            |                                                                                                 |
|------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| №                                  | Tested products                                                    | Type of test / characteristic                                                                                                              | Testing methods (standard / validated method)                                                   |
| 1                                  | 2                                                                  | 3                                                                                                                                          | 4                                                                                               |
|                                    | Fresh concrete (2)                                                 | 3.2. Resistance against freeze-thaw cycles:<br>- Weight loss;<br>- Compressive strength loss.                                              | БДС EN 206:2013+A2/NA (1)<br>Annex NA.O.1                                                       |
|                                    |                                                                    | 3.3. Slump test                                                                                                                            | БДС EN 12350-2 (2)                                                                              |
|                                    |                                                                    | 3.4. Density of hardened concrete                                                                                                          | БДС EN 12390-7/AC (1)                                                                           |
|                                    |                                                                    | 3.5. Irregularity measurement of pavement courses                                                                                          | БДС EN 13036-7 (1)                                                                              |
| 4.                                 | Mortars for masonry (cement/air-lime mortars and air-lime mortars) | 4.1. Flexural strength                                                                                                                     | БДС EN 1015-11                                                                                  |
|                                    |                                                                    | 4.2. Compressive strength                                                                                                                  | БДС EN 1015-11                                                                                  |
|                                    |                                                                    | 4.3. Consistence                                                                                                                           | БДС EN 1015-3/A1/A2                                                                             |
| 5.                                 | Cement                                                             | 5.1. Standard consistence                                                                                                                  | БДС EN 196-3                                                                                    |
|                                    |                                                                    | 5.2. Setting times                                                                                                                         | БДС EN 196-3                                                                                    |
|                                    |                                                                    | 5.3. Strength                                                                                                                              | БДС EN 196-1                                                                                    |
|                                    |                                                                    | 5.4. Soundness                                                                                                                             | БДС EN 196-3                                                                                    |
| 6.                                 | Bitumen                                                            | 6.1. Needle penetration                                                                                                                    | БДС EN 1426                                                                                     |
|                                    |                                                                    | 6.2. Softening point - Ring and Ball method                                                                                                | БДС EN 1427                                                                                     |
|                                    |                                                                    | 6.3. Elastic recovery of modified bitumen                                                                                                  | БДС EN 13398                                                                                    |
| 7.                                 | Soils for civil engineering purposes                               | 7.1. Particle size distribution                                                                                                            | БДС EN 933-1                                                                                    |
|                                    |                                                                    | 7.2. Water content                                                                                                                         | БДС EN 1097-5                                                                                   |
|                                    |                                                                    | 7.3. Particle density:<br>- Apparent particle density;<br>- Oven-dried particle density;<br>- Saturated and surface dried particle density | БДС EN 1097-6, cl. 7, cl. 8 and cl. 9                                                           |
|                                    |                                                                    | 7.4. Test for Density of Soil In-Place<br>- by the Sand-Cone Method<br>Determination of bulk density<br>- by immersion in fluid method     | AASHTO T 191<br><br>БДС EN ISO 17892-2, cl. 5.2                                                 |
|                                    |                                                                    | 7.5. Liquid Limit of Soils                                                                                                                 | AASHTO T 89                                                                                     |
|                                    |                                                                    | 7.6. Plastic Limit and Plasticity Index of Soils                                                                                           | AASHTO T 90                                                                                     |
|                                    |                                                                    | 7.7. Dry density and water content. Proctor compaction                                                                                     | БДС EN 13286-2 (3) cl. 7.1, cl. 7.2, cl. 7.4 and cl. 7.5, БДС 17146 (3) cl. 3.3.1 and cl. 3.3.2 |
|                                    |                                                                    | 7.8. Determination of the modulus of elasticity, the moduli of deformation (E1) and (E2) and the deformation ratio (E2/E1)                 | БДС 15130                                                                                       |
|                                    |                                                                    | 7.9. California bearing ratio (CBR)                                                                                                        | БДС EN 13286-47                                                                                 |

| Type of the scope: <i>flexible</i> |                                                                                           |                                                   |                                               |
|------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|
| №                                  | Tested products                                                                           | Type of test / characteristic                     | Testing methods (standard / validated method) |
| 1                                  | 2                                                                                         | 3                                                 | 4                                             |
| 8.                                 | Bituminous mixtures<br>Hot mix asphalt (1);<br>Placed and compacted asphalt pavements (2) | 8.1. Bulk density                                 | БДС EN 12697-6 (1;2)<br>Procedures: A; B; D   |
|                                    |                                                                                           | 8.2. Maximum density                              | БДС EN 12697-5 (1)<br>Procedure A             |
|                                    |                                                                                           | 8.3. Void characteristics                         | БДС EN 12697-8 (1)                            |
|                                    |                                                                                           | 8.4. Marshall test (stability)                    | БДС EN 12697-34 (1)                           |
|                                    |                                                                                           | 8.5. Marshall test (flow)                         | БДС EN 12697-34 (1)                           |
|                                    |                                                                                           | 8.6. Soluble binder content                       | БДС EN 12697-1 (1;2)<br>Annex B, cl. B1.7     |
|                                    |                                                                                           | 8.7. Particle size distribution                   | БДС EN 12697-2+A1 (1;2)                       |
|                                    |                                                                                           | 8.8. Reference density                            | БДС EN 12697-9* (2)<br>cl. 6.1.1              |
|                                    |                                                                                           | 8.9. Irregularity measurement of pavement courses | БДС 17143 (2)<br>БДС EN 13036-7 (2)           |
|                                    |                                                                                           | 8.10. Slip resistance of pavement courses         | БДС 17143 (2)                                 |
|                                    |                                                                                           | 8.12. Dimensions of a bituminous specimen         | БДС EN 12697-29 (1)                           |
|                                    |                                                                                           | 8.12. Thickness of a bituminous pavement          | БДС EN 12697-36 (2)<br>Destructive Method     |
|                                    |                                                                                           | 8.13. Temperature of asphalt mixtures             | БДС EN 12697-13 (1)                           |
| 9.                                 | Flexible sheets for waterproofing                                                         | 9.1. Bond strength                                | БДС EN 13596                                  |

**To perform sampling of:**

| Type of the scope: <i>flexible</i> |                                                     |                                              |
|------------------------------------|-----------------------------------------------------|----------------------------------------------|
| №                                  | Product                                             | Sampling methods (standard/validated method) |
| 1                                  | 2                                                   | 3                                            |
| 1.                                 | Aggregates                                          | БДС EN 932-1                                 |
| 2.                                 | Fillers and fine aggregates for bituminous mixtures | БДС EN 932-1                                 |
| 3.                                 | Concrete and fresh concrete                         | БДС EN 12350-1                               |
| 4.                                 | Mortars for masonry                                 | БДС EN 1015-2/A1                             |
| 5.                                 | Cement                                              | БДС EN 196-7                                 |
| 6.                                 | Bitumen                                             | БДС EN 58                                    |
| 7.                                 | Soils for civil engineering purposes                | БДС 17146<br>БДС EN 13286-1                  |
| 8.                                 | Bituminous mixtures                                 | БДС EN 12697-27                              |

*\*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.

## **I ORDER**

To issue the certificate of accreditation reg. № 4 ЛИ/26.07.2024, valid until 26.07.2028 and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the manager / representative of the Avtomagistrali – Tchernomore Jsc, head of the Company Road Laboratory at Avtomagistrali – Tchernomore Jsc, or other authorized person in the office of EA BAS.

Upon receipt of the certificate issued and enclosure, the accredited person is obliged to return to EA BAS the originals of the certificate of accreditation reg. № 4 ЛИ/22.05.2023, valid until 29.07.2024 and an enclosure - EA BAS order reg. № A 217/22.05.2023 as an integral part of it.

This order shall be notified to the Avtomagistrali – Tchernomore Jsc, within 3(three) days from its issuance.

**Eng. Irena Borislavova**

*Executive Director of EA BAS*

