ORDER

№ A 179

Sofia, 17.06.2026

Pursuant to Art. 10, para. 1, item 2a of the Law on National Accreditation of Conformity Assessment Bodies, in connection with item 5.3.1 of the BAS QR 2 Accreditation Procedure, assessment report reg. № 433/197 ЛИ/5/В/16.03.2026, annex reg. № 433/197 ЛИ/9/В/23.04.2026 and EA BAS order reg. № A 178/17.06.2026, I hereby

AMEND

EA BAS order reg. № A 115/31.03.2025

ROAD INFRASTRUCTURE AGENCY
TESTING LABORATORY AT THE ROAD AND BRIDGES INSTITUTE

Management address: 1606, Sofia, 3 Macedonia Blvd.
Laboratory address: 1517, Sofia, Poduyane, 114 Bessarabia Str.

To perform testing of:

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
1.	Aggregates for concrete, bituminous mixtures and constructive layers for roads and facilities	1.1. Content of: - 1.a. fine fraction (f) (grains under a sieve 0,063 mm); - 1.b. small fraction (grains under a sieve 0,5 mm)	БДС EN 933-1
		1.2. Particle size distribution	БДС EN 933-1
		1.3. Shape index (*SI*);	БДС EN 933-4
		1.4. Flakiness index *(FI)*	БДС EN 933-3
		1.5. Percentage of: - totally crushed particles; - crushed particles; - totally rounded particles	БДС EN 933-5
		1.6. Resistance to freezing and thawing	БДС EN 1367-1 БДС EN 13450+AC

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		1.7. Resistance to freezing, determined with magnesium sulfate (Magnesium sulfate test) *(MS)*	БДС EN 1367-2 БДС EN 13450+AC
		1.8. Loose bulk density	БДС EN 1097-3
		1.9. Water content *(w)*	БДС EN 1097-5
		1.10. Particle density of grains: - specific density of grains (ρ_a); - bulk (volumetric) density of grains in a dry condition (ρ_{rd}); - bulk (volumetric) density of grains in a water-saturated and surface dry condition (ρ_{ssd}); - density of grains in a predried condition (ρ_p)	БДС EN 1097-6 cl. 7, cl. 8, cl. 9 Annex A
		1.11. Affinity between aggregate and bitumen;	БДС 11685
		1.12. Affinity between aggregate and bitumen by desorption method in boiling water	БДС EN 12697-11
		1.13. Water absorption (WA_{24})	БДС EN 1097-6 cl. 7, cl. 8, cl. 9
		1.14. Light organic pollution (m_{LPC})	БДС EN 1744-1+A1
		1.15. Liquid limit	Н № РД-02-20-2/ 2018, Annex № 15 to Art. 160, item 3
		1.16. Plasticity index I_p (Index of pasticity)	Н № РД-02-20-2/ 2018, Annex № 16 to Art.160 item 3
		1.17. Resistance to fragmentation - factor Los Angelos (wear resistance in the Los Angeles apparatus)	БДС EN 1097-2
		1.18. Resistance to fragmentation at static load;	БДС EN 206+A2/ NA, Annex NA.Q
		1.19. Resistance to wear (Micro-Deval factor)	БДС EN 1097-1
		1.20. Assessment of fines (Sand equivalent test)	БДС EN 933-8+A1
		1.21. Assessment of fines (Methylene blue test)	БДС EN 933-9
		1.22. Polished stone value (resistance	БДС EN 1097-8

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		to polishing)	
		1.23. California bearing ratio (CBR) in laboratory conditions. Relative linear swelling	БДС EN 13286-47; Н № РД-02-20-2/ 2018, Annex № 17 to Art. 161, item 3
		1.24. Density in situ (on site) by the method of "replaced sand" / degree of compaction	Методика МРРБ-ГУП, 1999
		1.25. Laboratory reference dry density at optimal water content by Proctor compaction	БДС EN 13286-2; БДС 17146
		1.26. Modulus of elasticity. Deformation modules. Degree of compaction E2:E1.	БДС 15130
		1.27. Compressive strength of hydraulically bound mixtures and rock aggregates	БДС EN 13286-41; БДС EN 1926
		1.28. Resistance to freezing of cement stabilized mixtures	ТС-ММЦСС:2014
		1.29. Content of total sulphur	БДС EN 1744-1+A1
		1.30. Content of sulphates: - acid-soluble sulfates; - water-soluble sulfates;	БДС EN 1744-1+A1
		1.31. Content of water soluble chlorides;	БДС EN 1744-1+A1
		1.32. Content of humus;	БДС EN 1744-1+A1; БДС 11302
		1.33. Silicate dissociation after steaming and treatment with sodium sulphate	БДС 14610
		1.34. Iron and manganese dissociation	БДС 14610; БДС EN 1744-1+A1
		1.35. Lime dissociation	БДС 14610
2.	Inorganic binders	2.1. Particle size distribution	БДС EN 933-1
3.	Asphalt/Bituminous mixtures	3.1. Bulk density (ρ_b); (ρ_{bdry}; ρ_{bssd}; ρ_{bsea}; $\rho_{b,dim}$)	БДС EN 12697-6
		3.2. Maximum density of bituminous mixture (ρ_m; ρ_{mv}; ρ_{mc})	БДС EN 12697-5
		3.3. Residual porosity (V_a);	БДС EN 12697-8

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		3.4. Number of strokes to compact the test specimen on both sides	БДС EN 12697-30
		3.5. Stability *(S)*, Total conditional plasticity/fictility *(FT)* by the Marshall method	БДС EN 12697-34; БДС EN 12697-29
		3.6. Grain size distribution of the mineral part of an asphalt mixture (Particle size distribution)	БДС EN 12697-2
		3.7. Content of the soluble binder in the asphalt/bituminous mixture	БДС EN 12697-1
		3.8. Binder drainage *(BD)*	БДС EN 12697-18, cl.5
		3.9.a. Preparation of test specimens by roller compactor (for wheel-track testing) (for Wheel tracking)	БДС EN 12697-33+A1, cl.5.3
		3.9.b. Slope of wheel track formation for test sample Slope of wheel tracking curve for test spesimen - WTS_{AIR} : - Proportional track depth — by 10000 cycles for test spesimen - PRD_{AIR}, - Track depth — by 10000 cycles for test spesimen - RD_{AIR},	БДС EN 12697-22+A1, cl.8.3 Procedure B using a small-sized device, according to cl.6.3
		3.10. Asphalt compaction coefficient (degree of compaction)	БДС EN 12697-9**; БДС 17143
		3.11. Thickness of a bituminous pavement (thickness of a bituminous layer)	БДС EN 12697-36 cl. 6.1
		3.12. Affinity between a bitumen and a surface of the mineral part of bituminous mixture	ТС 96-МТ2:1996
4.	Waterproofing materials - flexible bitumen and polymer bitumen sheets for waterproofing	4.1. Tensile properties (transversal and longitudinal): - maximum tensile strength/force, - elongation by maximum tensile strength	БДС EN 12311-1
		4.2. Bond strength	БДС EN 13596; ТППТИХСПМ: 1997
		4.3. Mass per unit area	БДС EN 1849-1
		4.4. Water absorption	БДС EN 14223
		4.5. Thickness	БДС EN 1849-1

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		4.6. Flow resistance at elevated temperature	БДС EN 1110
		4.7. Flexibility at low temperature	БДС EN 1109
		4.8. Watertightness	БДС EN 1928
5.	Geotextile materials (Geosynthetics)	5.1. Push-through force and push-through displacement by Static puncture test	БДС EN ISO 12236
		5.2. Tensile strength and strain (elongation) by Wide-width tensile test (at velocity of 20 mm/min)	БДС EN ISO 10319
		5.3. Tensile strength and strain of geogrids by Sigle or Multi-rib tensile method	ASTM D 6637
		5.4. Resistance to dynamic perforation by Cone drop test	БДС EN ISO 13433
		5.5. Thickness of single layers at specified pressures	БДС EN ISO 9863-1+ A1
		5.6. Mass per unit area	БДС EN ISO 9864
		5.7. Pyramid puncture resistance of supported geosynthetics (at velocity of 1,0 mm/min)	БДС EN 14574
		5.8. Characteristic opening size	БДС EN ISO 12956
		5.9. Water flow capacity in the plane of geotextile - index test	БДС EN ISO 12958-1
		5.10. Water permeability characteristics normal to the plane, without load (velocity index - v-index)	БДС EN ISO 11058
		5.11. Tensile properties (of geomembranes)3	БДС EN ISO 527-3
6.	Construction soils	6.1. Particle size distribution	БДС EN 933-1; БДС EN ISO 17892-4 cl.5.2
		6.2. Liquid limit	Н № РД-02-20-2/ 2018, Annex № 15, to Art.160, item 3
		6.3. Plasticity index *Ip* (Index of pasticity)	Н № РД-02-20-2/ 2018, Annex № 16, to Art.160, item 3
		6.4. Water content	БДС EN 1097-5;

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
			БДС EN ISO 17892-1
		6.5. Laboratory reference dry density at optimal water content by Proctor compaction	БДС EN 13286-2; БДС 17146
		6.6. California bearing ratio (CBR) in laboratory conditions. Relative linear swelling	БДС EN 13286-47; Н № РД-02-20-2/ 2018, Annex № 17, to Art. 161, para.3
		6.7. Index (coefficient) of water permeability	БДС 8497
		6.8. Modulus of elasticity. Deformation modules. Degree(stage) of compaction E2:E1.	БДС 15130
		6.9. Density in situ (on site) by the method of Replaced Sand / degree of compaction	Методика на МРРБ-ГУП, 1999
7.	Bitumen and bituminous binders	7.1. Penetration	БДС EN 1426
		7.2. Preserved penetration	БДС EN 12607-1; БДС EN 1426
		7.3. Penetration of a stabilizated binder	БДС EN 13074-1; БДС EN 13074-2; БДС EN 1426
		7.4. Penetration of a recovered from Asphalt/Bituminous mixtures binder	БДС EN 12697-1; БДС EN 12697-3+A1; БДС EN 1426
		7.5. Softening point	БДС EN 1427
		7.6. Increase in softening point/temperature	БДС EN 1427; БДС EN 12697-1
		7.7. Softening point of a binder, recovered from Asphalt/ Bituminous mixtures	БДС EN 12697-1; БДС EN 12697-3+A1; БДС EN 1427
		7.8. Softening point of a stabilizated binder	БДС EN 13074-1; БДС EN 13074-2; БДС EN 1427
		7.9. Efflux time	БДС EN 12846-2; БДС EN 12846-1
		7.10. Solubility	БДС EN 12592
		7.11. Change of mass	БДС EN 12607-1
		7.12. Flash point by Cleveland open	БДС EN ISO 2592

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		cup method	
		7.13. Paraffiin wax content	БДС EN 12606-1
		7.14. Fraass breaking point	БДС EN 12593
		7.15. Adhesivity	БДС EN 15626; БДС EN 13614
		7.16. Capability of hardening: - total distillate at 360; - % of the total distillate, fraction at: 190°C; 225°C; 260°C and 315°C	БДС EN 13358
		7.17. Elastic recovery	БДС EN 13398
		7.18. Elastic recovery after a test, according to БДС EN 12607-1	БДС EN 12607-1; БДС EN 13398
		7.19. Elastic recovery of a binder, recovered from Asphalt/ Bituminous mixtures	БДС EN 12697-1; БДС EN 12697-3+A1; БДС EN 13398
		7.20. Elastic recovery of a stabilizated binder	БДС EN 13074-1; БДС EN 13074-2; БДС EN 13398
		7.21. Storage stability: - difference in softening point; - difference in penetration	БДС EN 13399; БДС EN 1426; БДС EN 1427
		7.22. Residue on sieving	БДС EN 1429
		7.23. Particle polarity	БДС EN 1430
		7.24. Breaking value	БДС EN 13075-1
		7.25. Mixing stability with cement	БДС EN 12848
		7.26. Content of binder (by distillation)	БДС EN 1431
		7.27. Content of oil distillate	БДС EN 1431
		7.28. Penetration of a binder, recovered by evaporation	БДС EN 13074-1; БДС EN 1426
		7.29. Softening point of a binder, recovered by evaporation	БДС EN 13074-1; БДС EN 1427
		7.30. Elastic recovery of a binder, recovered by evaporation	БДС EN 13074-1; БДС EN 13398
8.	Road marking materials and road marking	8.1. Slip/skid resistance of a surface	БДС EN 1436, cl. 4.5
		8.2. Color: - factor of brightness β; - chromaticity coordinates (x,y)	БДС EN 1436

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		8.3. Factor of brightness in diffused lighting, Qd	БДС EN 1436
		8.4. Factor of brightness at retro-reflection, R_L: - for dry road surface; - for wet road surfaces.	БДС EN 1436
9.	Materials for winter maintenance of roads	9.1. Particle size distribution/ sieve analysis	БДС EN 1235/A1
		9.2. Moisture content	ISO 2483
		9.3. Content of water-soluble chlorides - total chlorides - NaCl - $CaCl_2$ - $MgCl_2$	БДС ISO 6227; БДС EN 16811-1; ТПИПП:2009-Annex 1; БДС EN 16811-2; БДС EN 16811-2; БДС EN 16198; ТПИПП:2009-Annex 1
		9.4. Content of water-soluble sulphates	ISO 2480
10.	Road traffic signs and signboards	10.1. Impact resistance	БДС EN ISO 6272-1
		10.2. Coating thickness	БДС EN ISO 2178
		10.3. Strength properties of road traffic signs and delineators - deformations: - wind load (support / plate); - temporary (support / plate); - temporary - twisting (plate); - for snow removal (support / plate); - concentrated forces (support / plate); - corrosion resistance; - edges of the base; - face of the sign.	БДС EN 12899-1; БДС EN 12899-3
		10.4. Color: - actor of brightness β; - chromaticity coordinates (x,y)	МОХВЛПЗСФ:2019
		10.5. Coefficient of retroreflection R_A	МОХВЛПЗСФ:2019
11.	Accessories for road equipment (ARE) - road	11.1. Tickness of zinc coating	БДС EN ISO 2178
		11.2. Tickness of coating (for safety nets)	БДС EN ISO 2178

Type of the scope: *flexible**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
	restraint systems (steel safety fences); safety nets; flat products and noise barriers with different coatings	11.3. Strength properties of posts/poles and elements of wildlife/safety nets. Loadbearing capacity	БДС 2795**
		11.4. Tickness of zincaluminium coating	БДС EN ISO 2178
		11.5. Tickness of organic coating	БДС EN ISO 2178
12.	Concrete	12.1. Compressive strength	БДС EN 12390-3
		12.2. Density	БДС EN 12390-7+AC
		12.3. Tensile splitting strength	БДС EN 12390-6
13.	Road facilities, structures and accessories to them	13.1. Determination of deformations (reinforced concrete and steel elements and structures)	БДС 4983
		13.2. Test by trial static load. Determination of deformations (bridges and culverts)	ИИПМ:1980
		13.3. Test by trial dynamic loading. Determination of vibrations.	ИИПМ:1980
14.	Road surface characteristics	14.1. Slip/skid resistance of a road surface	БДС EN 13036-4
		14.2. Pavement surface macrotexture depth	БДС EN 13036-1
		14.3. Longitudinal Profile of Road Surfaces	ASTM E 950; МР:1986
		14.4. Transversal Profile of Road Surfaces - the straightedge test	БДС EN 13036-7; МР:1986
15.	Road construction characteristics	15.1. Load-bearing capacity of the road structure - expressed as: - bending; - modulus of elasticity	БДС 17143; БДС 15131; НП:1986

To perform sampling of:

Type of the scope: *flexible**		
№	**Tested products**	**Sampling methods (standard/validated method)**
1	2	3
1.	Aggregates for concrete, bituminous mixtures and constructive layers for roads and facilities	БДС EN 932-1, Part 1
2.	Asphalt/Bituminous mixtures	БДС EN 12697-27, Part 27
3.	Waterproofing materials	БДС EN 13416

Type of the scope: *flexible**		
№	**Tested products**	**Sampling methods (standard/validated method)**
1	2	3
4.	Geotextile materials (Geosynthetics)	БДС EN ISO 9862
5.	Construction soils	БДС EN 932-1, Part 1
6.	Concrete - concrete mixes and hardened concrete	БДС EN 12350-1, Part 1; БДС EN 12504-1, Part 1/AC

***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 CAB.*

** *Repealed but not replaced standard with regard to the testing method.*

References:

№	**Identification**	**Title of a document**
1.	Методика МРРБ-ГУП, 1999	Methodology for determining the bulk density on site by the method of Replaced Sand - GUP/MRM, 1999.
2.	ТС-ММЦСС:2014	Methodology for determining the index of frost resistance of cement-stabilized mixtures in laboratory conditions - RIA, 2014.
3.	ТС 96-МТ2:1996	Cold asphalt mixtures for current repairs of asphalt pavements - Technical specification – 1996.
4.	ТППТИХСПМ: 1997	Technical rules for design and technology for implementation of waterproofing of reinforced concrete road bridges - GUP/MRM, 1997.
5.	Н № РД-02-20-2/ 2018	Ordinance № РД-02-2-2/2018, Ordinance for design of roads, SG № 79 / 2018, amended, SG № 90/2018, in force since 26.10.2018.
		Method for determining of the Liquid limit WL of soils - Annex № 15 to Art. 160, item 3 of H № RD-02-20-2/2018.
		Method for determining of the Plastic limit WP and the Plasticity index Ip of soils - Annex № 16 to Art. 160, item 3 of H № РД-02-20-2 / 2018.
		Method for determining of the California bearing ratio (CBR) - Annex № 17 to Art. 161, para. 3 of H № РД-02-20-2/2018.
6.	ТПИПП:2009	Technical rules and requirements for road maintenance - RIA, 2009.
7.	ИИПМ:1980	Instructions for testing of road bridges, GUP/MRM - approved by Order № 6/02.01.1980 of the Ministry of Construction and Order № 1/02.01.1980 of the CAB (Chamber of Architects in Bulgaria).
8.	МР:1986	Methodology for measuring and assessing the equality of road surfaces - GUP/MRM, Order № РД-22-312/30.04.1986.
9.	НП:1986	Methodology for measuring and assessing the load-bearing capacity of road surfaces - GUP, 1986.
10.	МОХВЛПЗСФ:2019	Methodology for determining the visibility characteristics of faces on road signs from reflective foils – RIA, 2019.

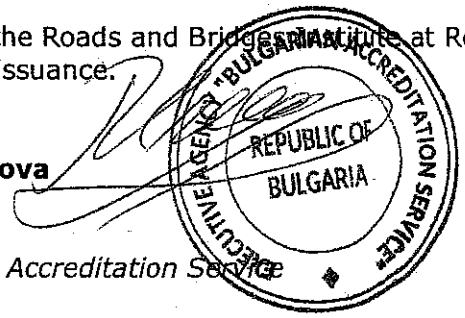
I ORDER

To issue the certificate of accreditation reg. № 197 ЛИ/17.06.2026, valid until 31.03.2029, 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 Road Infrastructure Agency, the head of Testing Laboratory at the Roads and Bridges Institute, or other authorized person in the office of EA BAS.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of accreditation certificate № 197 ЛИ/31.03.2025, valid until 31.03.2029 and its enclosure, EA BAS order reg. № А 115/31.03.2025.

This order shall be notified to the Roads and Bridges Institute at Road Infrastructure Agency, within 3 (three) days from its issuance.



Eng. Mariya Ilieva - Yordanova

Executive Director
of Executive Agency Bulgarian Accreditation Service